30 YEARS ANNIVERSARY

Promoter of academic research and education in the Finnish ICT sector

Nokia Foundation 1995–2025

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Foreword

by the current
Chair of the Board

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Education, research and development are key factors for economic growth and, therefore, the well-being of our society. They provide the resources to realise growth in a sustainable way, including all the elements of sustainability, the environment, society and the economy. Nokia Foundation already has 30 years of history on this path of supporting education and research in ICT in Finland. This document tells that history.

In the ICT industry, competitiveness depends on the quality of the technology provided — meaning there has been heavy investments in R&D in the ICT domain. Recently, Nokia has invested around four billion euros annually in R&D. Among companies in Finland, this level of investment is totally in a league of its own.

Nokia Foundation should not settle with anything but the best. Nokia Foundation has encouraged this by welcoming top-level scientists into our community and taking highly promising researchers to the best places in the world. Nokia Foundation has also supported the best research and education in the ICT sector in Finland. Investing in talent is necessary so that we can continue to compete with the best globally. The evidence of this very broad support by Nokia Foundation over the last 30 years is presented also in the appendix to this history. The cumulative sum of the awards given by the Nokia Foundation during its 30 years of history sums up to more than 11,5 million euros.

Mikko Uusitalo

Chair of the Board, Nokia Foundation

September 2025

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01

Establishment of
the Foundation

Transformation of Nokia into a technology company

The name "Nokia" originates from a wood pulp mill that was founded on the banks of the rapids of the same name in 1865. Nokia became a multi-sector corporation at the beginning of 1967 when the forest industry company Nokia, Suomen Kumitehdas Oy (Finnish Rubber Works) and Suomen Kaapelitehdas Oy (Finnish Cable Works) were merged into Oy Nokia Ab.
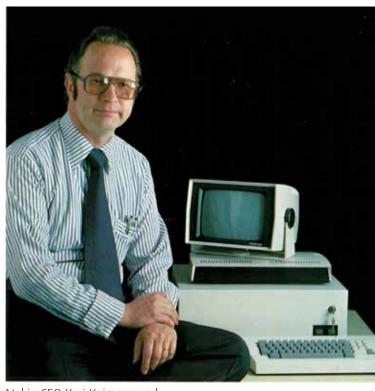
Nokia paper factory in 1909.

Nokia's roots as a technology company stem from Suomen Kaapelitehdas (Finnish Cable Works), which began selling and marketing computers from other manufacturers in the early 1960s. The company also established a data centre that was used by leading Finnish companies when they started using computers. Finnish Cable Works began manufacturing two-way radios in the mid-1960s.

Nokia CEO Kari Kairamo and the Mikro Mikko computer.

President Kekkonen, CEO Westerlund and President Breznev in 1961 at Nokia cable factory.

In the 1970s, Nokia began manufacturing digital call centres, as they started running on time division multipexing technology (TDMT), which Nokia already had strong expertise in. In 1979, Nokia and Salora founded the mobile phone joint venture Mobira Oy, which in 1989 became Nokia Mobile Phones. The company's share of the global mobile phone market increased to 10 per cent the following year.

Nokia launched its first computer in 1972. The scale of computer production extended in 1988 when Nokia developed the office computer Mikro Mikko and acquired the Swedish company Ericsson Information Systems. Nokia grew into the largest computer company in the Nordic countries.

"Nokia's roots as a technology company stem from Suomen Kaapelitehdas (Finnish Cable Works)."

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Nokia television in the 1980s.
Työväenmuseo Werstas.

In 1984 Nokia also, it also expanded its operations to the production of televisions through acquisitions in 1984. Nokia had a strong belief in the integration of TVs, monitors and computers. Following major acquisitions in 1987, Nokia became one of the major European television manufacturers.[1]

Research, development and technology were top priorities for Kari Kairamo, the CEO of Nokia, in the early 1980s. With the establishment of the TEKES, the Finnish Funding Agency for Technology in 1983, the focus began to shift from fragmented and individual research projects to national technology programs. These programs formed an important layer alongside private research activities and concentrated resources on building fundamental expertise[2]. According to Yrjö Neuvo, who was Professor at the Tampere University of Technology at the time, "the national will was to move forward in technology". He also visited University of Oulu as a teacher within a national program, which he considered to be "hugely important" for Finland's development.[3]

Professor Yrjö Neuvo, 1986.
Veli-Matti Parkkinen / Vapriikin kuva-arkisto.

In 1986, Finland's leading technology company Nokia established a joint research and development unit within its electronics division. It quickly found its place as a service provider to the business units and grew at an annual rate of 50%. In 1989, the R&D unit employed 200 people.

Nokia established an electrical engineering training program for its employees in Salo in 1987. The students had passed the normal admission exams of Tampere University of Technology and studied in accordance with the university's study guide. Professor Neuvo held DISKO and LISKO courses at the Salo Research Center in the fields of digital signal processing and telecommunications technology, which made him very familiar among the researchers at Nokia's Salo unit.[4]

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1   Häikiö 2002.
2   Michelsen 1993, 264-265; Häikiö 2002, 114.
3   Neuvo, 6 August 2025.
4   Häikiö 2015, 168.

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The world's first GSM call was made by the Governor of the Bank of Finland, Harri Holkeri, over a network provided by Nokia and Radiolinja in July 1991.

Dark clouds started gathering over Nokia in 1988. Some of the major acquisitions were perhaps not well thought out. The television industry suffered from overcapacity in the sector, which resulted in losses. Nokia discontinued its operations in the traditional paper industry and the manufacture of rubber boots. The Finnish economic boom of the 1980s ended in 1990, and unemployment began to rise worryingly. One of the mainstays of the Finnish economy, the profitable Eastern trade, was declining and ended in its traditional form in 1991 when the Soviet Union collapsed. Finland fell into recession. Nokia's Telecommunications unit, which manufactured call centres and networks, had lost its most important export market. Nokia lost a lot of money.

Fortunately, Nokia's Telecommunications unit found new markets in the West just as demand for digital mobile networks began to grow strongly. Nokia Mobile Phones succeeded in producing its first hit phone at the beginning of 1992.[5] As Nokia's production facilities were in Finland, the company also benefited from the huge devaluations of the Finnish markka (FIM) in November 1991 and October 1992. Jorma Ollila, Chief of Nokia Mobile Phones, was appointed as CEO at the beginning of 1992. He recruited Professor Neuvo as Nokia's Chief Technology Officer at the beginning of 1993, although at the time Neuvo had "an excellent working environment, a good international network of researchers and collaborative projects with companies".

> "Nokia Mobile Phones succeeded in producing its first hit phone at the beginning of 1992."

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5   Häikiö 2002, 152.

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"To create a clear framework"

According to Jorma Ollila, there were occasional discussions about establishing a foundation after he started as CEO. However, it was a very challenging time for the company, "until 1994, when we realised that we would survive, that we had created the right concept in our strategy. Focusing on telecommunications and mobile phones would drive our growth." At that time, the company increased its investments in research and development considerably. At the same time, Nokia realised that "we must do everything in our power to support the creation of a sufficient academic basis, sufficient amount of theses and sufficient research in Finland."[6] Ollila managed to recruit Juhani Kuusi, Director General of TEKES the Finnish Funding Agency for Technology and Innovation, Doctor of Technology, as Head of Nokia Research Center in early 1995.

According to the Nokia Foundation History over the first 10 years, the idea of establishing the Foundation gradually came from the people working at Nokia. Nokia received a large number of sponsorship requests from universities and student organisations, and the company wanted to support them. Nokia also wanted to profile itself as an expert in its field.[7] In spring 2025, Jorma Ollila says that

> *the idea of the Foundation was born in discussions between Yrjö Neuvo, Juhani Kuusi and me. Juhani Kuusi was Head of Nokia Research Center. And Yrjö Neuvo had strongly influenced the decision to recruit him. We both knew him, of course. Yrjö Neuvo's background was in the academic world in Tampere. Juhani Kuusi, on the other hand, had worked as a civil servant and ended up at TEKES. In our discussions, we understood that now could be the right time. I am not sure who said what in the discussion.[8]*

According to Yrjö Neuvo, "there was an urgent need to establish the Foundation because the number of doctors employed in business was so low".[9] Juhani Kuusi's experience in building TEKES operations also made him a solid expert in the world of foundations. According to Kuusi, "the aim of the Foundation was to create a clear framework with social relevance to support students and researchers and to publicly

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6   Ollila, 13 May 2025.
7   Nokia Foundation: A decade of activities 1995–2004. Nokia Foundation 2004.
8   Ollila, 13 May 2025.
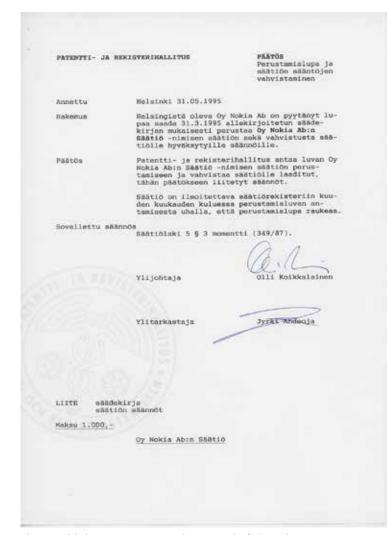9   Neuvo, 6 August 2025.

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Professor Markku Juntti University of Oulu

matter to the Annual General Meeting. Nokia's Annual General Meeting, held at the Helsinki Fair Centre on 30 March 1995, decided to establish Oy Nokia Ab's Foundation with a share capital of FIM 10 million and approved the Foundation's rules.[13] The purpose of the Foundation was to support the scientific development of information and telecommunications technology and to promote teaching in the field in Finland. From 1997, the Foundation's official name was Nokia Corporation's Foundation, and it was called Nokia Foundation in unofficial contexts.

represent social responsibility on behalf of Nokia as a whole".[10] Professor Markku Juntti, who served on the Board of Nokia Foundation for a long time, remembers that "there was a lot of discussion in the 1990s about doctoral education and about how it should be increased. By establishing the Foundation, Nokia wanted to do its part."[11]

According to Ollila, Nokia needed and wanted to attract people with a "strong academic background to Finland. And if someone wanted to write a doctoral thesis on topics defined by the Foundation, the Foundation would provide support." Another motive was that by supporting educational institutions and the scientific field, the state would be more willing to invest in them. In this way, Finnish technical colleges and universities could provide sufficient support for Nokia and other Finnish companies in the industry. Of course, the third important factor was Nokia's corporate image in general and especially among students.[12]

After CEO Ollila made a proposal to establish the Foundation, Nokia's Board of Directors took the

The establishment permit and approval of the rules for the Nokia Foundation by the Finnish Patent and Registration Office.

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10   Nokia Foundation: A decade of activities 1995–2004. Nokia Foundation 2004.
11   Ollila, 13 May 2025; Juntti, 5 August 2025.
12   Ollila, 13 May 2025.
13   Oy Nokia Ab Board of Directors, 30 March 1995.

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Capital increases create the basis for effective operations

Finland joined the European Union at the beginning of 1995. The country continued to suffer from high unemployment, but the activity and success of Nokia and its subcontractors were early signs of better times. As a successful high-tech manufacturer, Nokia boosted the self-esteem of a nation used to hard living. On the day of the Annual General Meeting, Nokia announced that it had signed a large digital mobile network expansion agreement in Germany, the value of which was FIM 2.5 billion. The order was the largest single transaction in Nokia's history to date.[14]

When the Foundation's first grants and awards were awarded in November 1995, Nokia suffered an acute "logistics problem, as the computer systems were not working properly. The components and products were shipped to the wrong continent. But when the growth rate is about a hundred per cent, this can happen and the systems rarely keep up. But in this case, the problem was perhaps bigger than usual," Ollila says in spring 2025. From the point of view of the Foundation's establishment, the timing of the logistics problem was interesting. If the Foundation had been proposed in 1996, Ollila says that "we might have questioned whether we had the money for this right now". In the spring of 1997, when Nokia's Board of Directors proposed to the Annual General Meeting that the Foundation's capital be increased by FIM 10 million, Nokia's outlook was much brighter, even brilliant.

Ollila remembers that the decision was not straightforward for Board of Directors:

The Board disagreed on how much money should be invested in the Foundation. Iiro Viinanen was of the opinion that since money seems to be coming in, we should invest boldly. And then there were others, the bankers on the Board, who thought this was the wrong starting point. I did not agree with the bankers, I even supported the higher amount, and then we increased the amount. At the Annual General Meeting,

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14   HS, 31 March 1995.

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Viinanen even made a statement that the investment could be larger. The original proposal remained, but the matter was thought over.[15]

The Annual General Meeting approved the proposed capital increase. As Minister of Finance, Iiro Viinanen had supervised the state's treasury through the severe recession in 1991-1996. After his term as Minister, he became CEO of one of Nokia's major owners, Insurance Company Pohjola, and thereby joined Nokia's Board of Directors.

At the end of 1997, Nokia also donated to the Foundation funds from the recognition award that Eduard Rhein Stiftung - which promotes research and development in radio, television and information technology - had awarded to Heikki Huttunen of Nokia Mobile Phones for the development of GSM.[16]

In the winter of 1998, Nokia's Board of Directors noted that the company's profitability had turned so good that it proposed an increase in the Foundation's capital by another FIM 10 million. The Annual General Meeting approved the proposal.[17] In 1998, the return on investments in the Foundation was weak and Nokia made a further donation of FIM 150,000 to cover the planned grants. In 1999, the Foundation's capital was increased by another three million euros. The total amount of grants and awards awarded in 1998 was FIM 913,000. Three years later, the equivalent amount was EUR 423,000, or approximately FIM 2.5 million.[18]

With the increased basic capital, the Foundation's operations gained a fairly stable and established ground. Nokia Foundation's capital was increased by five million Euros in 2004 with the note that no additional financing was expected from Nokia in the coming years. At the end of 2004, the Foundation's investment assets amounted to EUR 12.6 million.[19]

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15   Ollila, 13 May 2025.
16   Board of Directors 3/1997; 1/1998;
      https://www.eduard-rhein-stiftung.de/entwicklung-des-digitalen-mobiltelefonsystes-gsm/
17   Ollila, 13 May 2025; Board of Directors 1/1998; 2/1998.
18   Board of Directors 4/1998; 1/1999; 2/1999 (agenda); 3/2000; 2/2001.
19   Board of Directors 1/2004; 1/2005.

"With the increased basic capital, the Foundation's operations gained a fairly stable and established ground."

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02

First years of operations

Nokia Foundation Board and annual celebrations

The structure of Nokia Foundation Board was established so that the Chair and two Board members would come from Nokia. The remaining three positions were filled by application among Finnish universities and the academic world, in accordance with the Foundation's rules. Juhani Kuusi became the first Chair of the Foundation Board. The other two members representing Nokia were Yrjö Neuvo and Kaj G. Lindén. The first professors to become Board members were Jaakko Astola from Tampere University of Technology, Jorma Lammasniemi from Technical Research Center of Finland (VTT) and Heikki Saikkonen from Helsinki University of Technology.

Lindén left the Board at the end of 1999. Kuusi continued to chair the Board until the end of 2003. Tero Ojanperä, Head of Nokia Research Center, succeeded him as the new Chair. Yrjö Neuvo's term on the Board of Nokia Foundation lasted from the Foundation's establishment until 2009, a total of 15 years, making him the longest-serving member in the Board's history. Members representing the research world initially changed annually, until the turn of the millennium, when the term was extended to two or three years. Helsinki University of Technology (Aalto University since 2009) and Tampere University of Technology (Tampere University since 2019) have had representatives on the Foundation's Board throughout its history, as has the University of Oulu, with the exception of a few years.

The Foundation has not distributed any remuneration to the members of the Board, except for a short period in the early 2000s. In a way, Nokia supported the Foundation by donating the contributions of its employees to the Board without compensation. This also applied to the Foundation Officer and secretary, who came from Nokia. Nokia's volunteers were responsible for the Foundation's financial management and accounting. This kept the operating costs low.

The largest individual overhead expense consisted of the arrangements for the annual celebrations. Those were attended by the grant recipients, the recipient of the annual recognition award, the Foundation's Board, Nokia's CEO and representatives of Nokia's and the Research Center stakeholders. Hannu Kauppinen, who

Nokia N-Gage gaming phone in technology demo in Award Ceremony 2004 in Nokia Research Center (NRC) Ruoholahti.

started working at Nokia Research Center in 1997, remembers seeing a large group of PhD students on a scholarship and professors in the large auditorium of the Ruoholahti office building, listening to the acknowledgement speech of the award-winner.

Then I realised that this is something very significant in the Finnish research world, and that researchers who have received grants see this as a great career development opportunity for themselves, adding it to their resumes that they have received a grant from Nokia Foundation, which will guarantee their success.

On the other hand, Nokia knew who the award winners were and could recruit them to work for Nokia.[20] Nokia Foundation's 10th anniversary celebration in 2004 was also held at the Ruoholahti Research Center. In the early years, the anniversary celebrations were occasionally held at Hotel Lord, also known as Vanha Poli.

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20   Kauppinen, 3 June 2025.

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Nokia Scholarship encourages postgraduate studies

The Board of Nokia Foundation initially granted three different grants: Nokia Scholarship, Nokia Visiting Fellow and Nokia Team. The Foundation had a two-fold role, which has remained the framework of its operations for decades. On the one hand, it provided extensive support for researcher training, while on the other hand, it promoted the transfer and development of excellence through researcher visits. The main objective was to support young post-graduate students so that the grant recipients could take a leave from their main position for the duration of the grant period. This was a recommendation for most of the recipients. It was an absolute requirement for Nokia employees only. With regard to the distribution of grants, the policy was that Nokia employees were not favoured, but also not discriminated against.[21]

The Foundation wanted to encourage high-quality, pioneering research and fast graduation at a young age. In terms of the number of grants and their total amount, the majority were distributed as scholarships, which were granted for "further studies in Finland and abroad to persons aiming for a Licentiate's or Doctoral degree". The purpose of the scholarship was to support, in particular, young post-graduate students, and one student could receive the grant twice during their studies. The maximum grant amount was set at FIM 30,000 in the autumn of 1995. In this first round, grants were awarded to seventeen post-graduate students. The total amount of FIM 420,500 accounted for more than 70 per cent of all the funding distributed by the Foundation, including the recognition award. Some of the post-graduate students received a scholarship for a visit to a foreign university.[22]

In the first application round, the number of applicants was still small. Perhaps the potential applicants at universities thought that the application had to be connected to Nokia's mobile phones or networks. In the Board's opinion, the targets set in the first grant applications were modest. However, the situation improved quickly. The Foundation received "many high-

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21   Report of the Board of Directors, 1995.
22   Nokia Foundation: A decade of activities 1995-2004. Nokia Foundation 2004.; Board of Directors 4/1995.

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quality" applications, as was stated in the annual reports year after year.

In 1999, the Foundation shifted its focus from full-time scholarships to efficient and prompt post-graduate studies.[23] The policy can also be approached from the point of view of the grant amount. The establishment of graduate schools under the Ministry of Education provided an even clearer path to further studies in higher education institutions in the late 1990s. The research schools made the work of post-graduate students more structured, more efficient and financially safer.

The Polytech Choir (Polyteknikkojen kuoro) in the Nokia Foundation Awards Ceremony in Dipoli, Otaniemi.

In 1998, the Finnish Cultural Foundation significantly increased scholarships for doctoral researchers to enable them to work all year round. At the time, the grant amounts varied from to FIM 70,000 to 80,000. The following year, the amount rose to FIM 90,000[24], and the Foundation could promise conditional three-year funding to new doctoral students. Larger foundations and research schools tended to prefer the overall funding of thesis projects.

Nokia Foundation did not develop its operations in the same direction.

The number of scholarship applications received by the Foundation increased sharply after the turn of the millennium. In 2000, 134 grants were applied for and 67 were granted, totalling EUR 311,000.[25] In 2002, the number of applications was 243 applications, and in the peak year 2005, the number rose to 300 applications, and the number of granted scholarships was 70. The Foundation's representatives were pleased with the development. "We have been able to contribute to the increased interest in basic research in the telecommunications industry," Yrjö Neuvo estimated in 2004, referring to Nokia and Nokia Foundation. Markku Juntti, who received the Nokia Scholarship in 1997, remembers that during the dot-com bubble at the turn of the century, research was also extended in companies. In the case of Nokia Foundation, the increased awareness of the Foundation may also have had an impact. "When information flows, there are more applications and, at the same time, the quality of the applications increases," said Professor Markku Kivikoski, assessing the situation in 2004.[26]

It was undeniable that the traditional way of thinking that "a master's in engineering was really good, and nothing interesting came after it" was weakening. The change had started slowly and accelerated in the late 1990s. According to Neuvo, "students started to understand that PhDs can also be employed by business". A good example of this is Kai Öistämö, a student at the Tampere University of Technology. He completed his doctoral degree in 1992 with notable determination. Having joined Nokia in 1991, he subsequently advanced to become the Head of the company's mobile phone division. "The idea began to take root — it marked a

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23   Board of Directors 1/1999.
24   Finnish Cultural Foundation, Annual Report, 1 October 1997 - 30 September 1998.
25   Board of Directors 3/2000.
26   Nokia Foundation: A decade of activities 1995-2004. Nokia Foundation 2004.

> ## "Jorma Ollila considers the internationalisation trend interesting and inevitable."

Foreign students at Tampere University of Technology.
K. Uusitalo / Vapriikin kuva-arkisto.

significant conceptual shift in how I perceived career development," Neuvo reflects.[27]

In the mid-1990s, most of the research topics were directly related to the development of computing efficiency, mobile phones, and network hardware and circuits. A little less than ten years later, popular research topics were method and application development related to multimedia, software development and the development of radio frequency electronics. The Foundation had also awarded grants to promising researchers whose work has limited links to technology. "In the future, the Foundation must continue to support young talents in their post-graduate studies and research, regardless of discipline. Talent in itself is important," said Tero Ojanperä, Head of Nokia Research Center and new Chair of the Board of Nokia Foundation in 2004.

There was a notable change in the backgrounds of the applicants and recipients of doctoral thesis grants during the first ten years. During the first two years, all grant recipients were Finnish. After this, the number of grant recipients with a foreign background started to grow, initially slowly, but after the turn of the millennium quickly to more than ten, and in 2004 more than twenty per cent or nearly one-third of all grant recipients.

Jorma Ollila considers the internationalisation trend interesting and inevitable. He also describes the appreciation of the Finnish

university institution and, on the other hand, the particularly strong appeal of ICT education.[28]

Professor Moncef Gabbouj from Tunisia, who led the Signal Processing Department at the Tampere University of Technology, received Nokia Foundation's Recognition Award in 2005 for his work in developing the international teaching network and MSE training in Finland. Professor had created ways for foreigners to obtain degrees in the field of technology in Finland. Nokia expressed its gratitude to him for all the talented students recruited to the company. Professor Neuvo had accepted Gabbouj as a teacher for English-language signal processing courses held for foreign students in 1990. Gabbouj played a key role in expanding the one-year program, which was established in 1989, into a comprehensive system that enabled foreign talents to study up to the doctorate level. The international master's program was new in Finland. In 2005, there were more programmes of this kind and the Ministry of Education was in the process of confirming them.[29]

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27   Neuvo, 6 August 2025.
28   Ollila, 13 May 2025.
29   Olavi Koistinen, Nokia Foundation rewarded a developer of teaching from Tampere. Hs.fi, 2 December 2005.

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Visiting experts who strengthen networks

By granting the award to Professor Gabbouj, Nokia Foundation also wanted to emphasise the importance of international teaching and effective networking in Finland.[30] An essential part of the Foundation's activities was to support researcher exchange and cooperation in the field of IT, data and telecommunications technology. The tool they used was the Nokia Visiting Fellow grant, which was granted to "a foreign professor or expert working in Finland or a Finnish expert working in a prestigious foreign research institute". The first Visiting Fellow grant, granted in 1995, amounted to FIM 60,000. The goal of the grant was to develop long-term international cooperation between universities. It was "necessary for the researchers to get stimuli from their own field all over the world," says Yrjö Neuvo, who had ranked the professors of the Electrical Department of the University of Technology after his Licentiate's thesis. "The three fellows who were in the lead, Martti Tiuri, Veikko Porra and Seppo J. Halme, had all been in the US for a year, which made me want to

go, as well." Neuvo believes that "without that, the other steps in my career would probably not have taken place".[31]

Visiting Fellow grants were initially awarded two or three per year. As the distributable funds grew, the Foundation explored the possibility of cooperating with the renowned American Fulbright system in 1998.

The initiative was made by a member of the Board of Nokia Foundation, Veikko Porra, Professor of Circuit Engineering at Helsinki University of Technology, who was also a member of the Board of Directors of the Finnish Fulbright Centre. He had visited the United States as an Asla-Fulbright researcher himself. Nokia's aim with the cooperation was visits from the US to Finland by prestigious professors.[32] In winter 1999, the parties agreed on the Nokia-Fulbright Fellowship in Electronics, Information and Telecommunications Technology. The costs of the visits were distributed between the host university for the accommodation, Nokia

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30   Report of the Board of Directors 2005.
31   Neuvo, 6 August 2025.
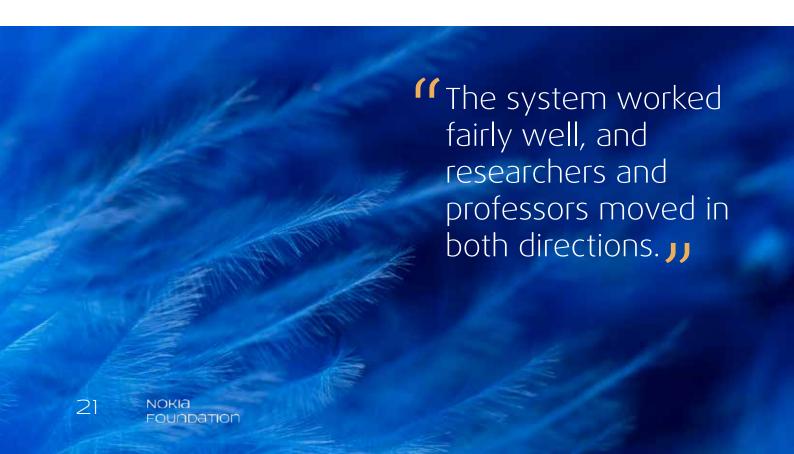32   Board of Directors 3/1997; 1/1998; 2/1998.

Foundation for the actual scholarship and the administrative fee paid to Fulbright. Fulbright paid for the return flight tickets. When Fulbright applied for candidates suitable for a scholarship through its own system, it essentially made the work of Nokia Foundation easier. Due to the Fulbright experiment, no Nokia Fellowship grant was awarded in 1999.[33]

The problem was that the modest grant did not attract as many talented applicants as the funders would have liked. On the proposal of the Fulbright Center, the cooperation was redirected in 2001 so that the scholarship could also be awarded to candidates who had already completed their doctoral thesis but who were in the early stages of their careers. The scholarship was renamed Fulbright-Nokia Grant in Electronics, Information and Telecommunications Technology.[34] In the following years, grants were awarded, but the applicants did not meet expectations. Yrjö Neuvo hoped that Finnish professors would be more active in applying for Fulbright scholarship.[35] In 2006, no Fulbright scholarships were applied for.[36]

At the turn of the millennium, the Foundation also decided to support research visits of young post-doc researchers to Finland, with the aim of creating research hubs and good working environments as well as intensifying international cooperation. The grant was named Nokia Visiting Researcher, and it was combined with Nokia Visiting Fellow in 2001. At the same time, the Foundation decided to support post-doc researchers going abroad from Finland.[37] In 2003, nine research visits were financed through this grant. The system worked fairly well, and researchers and professors moved in both directions. In 2005, the Board stated that the Visiting Fellow grant was definitely worth keeping and that they wished for more active advertising.[38]

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33   Board of Directors 5/1998; Report of the Board of Directors.
34   Board of Directors 1/2001.
35   Board of Directors 3/2005; Report of the Board of Directors 2005
36   Report of the Board of Directors 2006.
37   Board of Directors 1/2000; 2/2000; 1/2001.
38   Board of Directors 1/2005.

"The system worked fairly well, and researchers and professors moved in both directions. "

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Side paths
Nokia Team and
Educational Award

With the Nokia Team grant, the Foundation aimed to "promote the interaction between research and education communities and industry. The team's topic could be related to research, education, significant development activities or the international publication of research results. The aim was to transfer technology and new insights between the research and education community and industry." The Nokia Team grant somewhat resembled TEKES role as an expert body that evaluated research projects proposed by industry, research institutes, universities and other higher education institutions and allocated the necessary funds for them.[39]

The first grant of FIM 60,000 was awarded to the project "Low-speed image codecs, MPEG4" carried out at the Helsinki University of Technology and Nokia Research Center. By the turn of the millennium, 20 grants had been awarded before the grant was discontinued.

To support the production of teaching materials, the Foundation began awarding Nokia Educational Awards for textbooks in 2000. The Foundation's new emphasis was perhaps anticipated by the Recognition Award of the previous year, which was awarded to Kullervo Nieminen "for his multifunctional and successful work in the development of math education". Nieminen had established a mathematics line at Päivölä College in Valkeakoski, whose students had been able to do internships at Nokia since 1997.

In 2000, a total of EUR 26,500 was granted as Educational Awards to nine applications.[40] Some of the awards were allocated to working groups. By 2004, the Foundation had awarded nearly 50 textbook awards. "The aim was to support up-to-date learning materials for different educational levels," Juhani Kuusi said. According to Kuusi, it was particularly important in fast-developing industries that the learning material corresponded to the spearhead of the development process and that it was available for roles at different levels - also in Finnish. However, the Educational Award was discontinued in 2005 when the Board decided that it did not sufficiently correspond to the Foundation's objectives.[41]

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39   Michelsen 1993, 264.
40   Board of Directors 1/2000; 2/2000.
41   Board of Directors 1/2005.

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03

Professional and renewing Foundation

Winds of change on the Board

At the beginning of 2008, Henry Tirri from Nokia Research Center started as Chair of the Foundation's Board. Tirri had served as a member of the Board since 2006. He had a PhD in computer science and had been building laboratories in Nokia's Bay Area in California and was responsible for several units at Nokia Research Center around the world. Tirri's chairmanship began with the appointment of the first foreign member of the Board, Bob Iannucci, and the first female member, Barbara Heikkinen. Both came from within Nokia. The minutes of the Foundation Board were now drawn up in English. Grant applications prepared in Finnish were no longer accepted.

Tirri lived in Palo Alto, California, which is why some of the Board meetings were also held remotely. With regard to professors, there was a significant change in the Board's work in terms of longer terms. Tommi Mikkonen, Professor at Tampere University of Technology, who joined the Board in 2006 and served on the Board until the end of 2011. Professor Ari Paasio of the University of Turku served on the Board from 2007 to 2012, Heikki Hämmäinen of Aalto University from 2008 to 2016 and Markku Juntti

of the University of Oulu from 2009 to 2017. Juntti says that the Board of Nokia Foundation was a useful place for him to network, even though some of the Board members were familiar to him from before. Without the Foundation, he would not have come to know software researchers from other universities and Nokia's research directors so well. The scholarship applications provided a good cross-section of where the discipline was heading.[42]

During Tirri's chairmanship, a university reform was carried out in Finland, giving universities the opportunity to obtain funding from the private sector. In 2009, Helsinki University of Technology, the Helsinki School of Economics, and the University of Art and Design Helsinki merged into Aalto University, which acts as a private foundation.

Nokia's market share in the rapidly expanding mobile phone market had risen to 38% in 2002 and remained close to 40% until 2009. In 2008, Nokia sold 468 million mobile phones. However, darker clouds began to gather around the company. Computer brand Apple's mobile phone, iPhone, was launched in the United States in June 2007, and immediately gained

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42   Juntti, 5 August 2025.

huge popularity. The American search engine company Google, on the other hand, released its own open-source Linux-based Android operating system in the autumn of 2007. In June 2008, Nokia acquired the software company Symbian and transformed it into a foundation that provided its members with mobile phone software free of charge.[43] Nokia also invested in cameras for mobile phones and map and location services, which it had gained access to through the giant Navteq deal in 2008.[44]

Interest in Android grew rapidly. At the end of 2009, it was used by Samsung, LG, Motorola and soon also Sony Ericsson. The Symbian operating system was in a downturn, which was deepened by the app developers' reluctance to make applications for it. In August 2010, Nokia and Intel announced that they had established a research laboratory at the University of Oulu to develop three-dimensional features and applications for the Meego operating system, which was expected to rescue Nokia from its distress. The location of the laboratory in Oulu was justified by the university's evidence. For example, the realXtend open-source virtual world had been developed there.[45] Nokia's CEO Olli-Pekka Kallasvuo resigned in 2010 and was succeeded by Stephen Elop from Microsoft.

In the networks business, Nokia Siemens Networks, a joint venture between Nokia and Siemens, had started operating at the beginning of 2007. The company's headquarters moved to Karakallio, Espoo. In addition to the 21,000 people working in Nokia's Networks unit, approximately 2,000 people from Nokia's support functions came to work at the company.

The Nokia 8110 was introduced in 1996 and was the company's first slider phone. Nokia 8110 also known as banana phone and Matrix phone is one of the most iconic Nokia phones. Nokia Design Archive, Aalto-yliopiston arkisto.

43   Petri Sajari, Nokia's Symbian alliance attacks Google. Hs.fi, 25 June 2008.

44   HS.fi, 14 November 2012.

45   Petri Sajari, Nokia and Intel to develop a new generation user interface in Oulu. Hs.fi, 25 August 2010.

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Perspective expands

The Board of Nokia Foundation discussed the priorities of its operations at its meeting in October 2009:

The Nokia Foundation brand has a significant meaning and is unique in research but needs more diversity in grant applications and institutes from which the applications are received. Broadening the scope and bringing in more diversity would have an impact in the selection of board members as representation from new areas would also be required.

Broadening the scope does not require changes in the Nokia Foundation by-laws. In case some research topic does not show a methodological or other link to the telecommunication field, it can be rejected. However, IT is nowadays covering most research branches. E.g. one of Nokia`s important research areas include African ethnography, brain research etc. with almost fourth of Nokia Research Center already involved in this type of research.

In 2009, the call for applications addressed to post-graduate students emphasised interdisciplinary applications that combined methods from other fields of science, such as social, behavioural, economic and service sciences. However, the number of these applications did not increase as hoped. The following year, the Foundation's Board decided to designate one new research area, human cognition understanding and modelling, and contacted around ten professors at different institutions. With these measures, the Foundation received several applications, and funding was granted to four researchers.[46]

In winter 2010, the Foundation's Board reached the following conclusions as the criteria for the Recognition Award:

Radio technology has somewhat been supported during recent years. If the Foundation wants to broaden the scope, it needs to balance the supported research areas. Need to define what type of signal the Foundation wants to give to the public. Nokia impact is important but should not be seen as the most important dimension.[47]

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46   Report of the Board of Directors 2010.
47   Board of Directors 1/2010.

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The Recognition Award was awarded in 2010 to Professor of Signal Processing Jaakko Astola from Tampere University of Technology, even though the aim had been to emphasise a female candidate or a candidate who had broadened the perspective in the field. The following year, these goals were combined when the Recognition Award was awarded to Professor Riitta Hari from Aalto University for her achievements in the field of brain research. In 2011, the Foundation's Awards celebration at Nokia's headquarters in Keilaniemi also marked the 25th anniversary of Nokia Research Center. The event was held immediately after the Nokia World 2011 event and the guests got to experience the high-quality demonstrations of Nokia World, many of which were created by Nokia Research Center. The subject of the panel discussion was Entrepreneurship in Finland. Yrjö Neuvo, who was commemorated with Nokia Foundation's Honorary Award, gave a celebratory speech at the event.[48]

The themes of the time were Open Innovation, which also played a key role in the work of Nokia Research Center. For this reason, Nokia Foundation honoured Wikipedia's founder Jimmy Wales in 2009 with a Recognition Award for his work as an internet developer and promoter of open information exchange and online participation.[49] In the next annual celebration in 2010, an Open Collaboration and Innovation panel discussion was arranged with Jorma Ollila, Chairman of the Board of Directors of Nokia Corporation, Jyrki Katainen, Minister of Finance, and Esko Aho, Vice President, Corporate Relations & Responsibility, former Prime Minister of Finland in 1991–1995.

In 2008, the Foundation's Board discussed how professors' visits between Finland and the United States could be developed in the spirit

"Visitors to Finland were typically expected to participate in research, give lectures and visit companies."

of open innovation networks. Chairman Tirri announced that he would appoint a person from Nokia Research Center to ensure that the opportunities offered by Nokia Foundation were promoted to the major US universities (Stanford, Berkeley, UCLA and MIT). In November 2008, Nokia Foundation and the Finnish Fulbright Centre agreed on a new Distinguished Chair grant for US professors. The Foundation expected Fulbright and Nokia brands and the increased grant (5,600 euros/month) to attract significant top US researchers from the fields of information and communications technology to lecture and conduct active research at Finnish universities.[50]

In 2008, Nokia Foundation discontinued the grant types for visiting researchers and senior lecturers "until further notice" and converted the Visiting Fellow grant into a Visiting Professor grant. It was intended for adistinguished foreign professor to work in Finland for a few months or, equivalently for a respected Finnish professor to work at a foreign university. Visitors to Finland were typically expected to participate in research, give lectures and visit companies.[51] This grant type had a difficult start, as only one application was submitted in 2009 and it was not accepted.[52]

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48   Report of the Board of Directors 2011.
49   Report of the Board of Directors 2009.
50   Report of the Board of Directors 2008.
51   Report of the Board of Directors 2008.
52   Report of the Board of Directors 2009.

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However, in the same year's Fulbright Distinguished Chair scholarship application, the Foundation received high-level applications and proposed to Fulbright to accept two applications, which also compensated for the unallocated Visiting Professor grant. The Board's minutes stated that it was difficult to attract interesting, good candidates as Visiting Professors to Finland. According to the Board, 2009 was not "the best year due to the uncertainty of economic conditions and the university reform in Finland".[53]

The following year, six Visiting Professor grants were awarded. Going forward, the grants have been awarded at a fairly even rate. There have been some quieter periods when investments have focused more on the Fulbright cooperation.[54] According to Markku Juntti, the criteria for the Visiting Professor grant were considered strict. Often, a Finnish professor got a visiting professor interested, while on the other hand, professors from countries with the sabbatical system contacted the Foundation themselves after learning about the grant. According to Timo Ali-Vehmas, who served as Chair of the Foundation's Board for a long time, it was important that "the cooperation networks were in order at both ends of the visits. And we had reason to assume that long-standing researchers had a visionary approach to the matters being studied." In addition to its academic interest, the Foundation was interested in the importance of the visit for the competitiveness of Finnish industry, for example.[55]

Professor Juntti hosted a few visiting professors. With Joseph R. Cavallaro, who had been in Oulu for six months, he had "very fruitful cooperation. He also supervised several doctors. Just recently, there was Vimal Batia from India, with whom we also had good, concrete cooperation."[56]

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53   Board of Directors 3/2009.
54   Board of Directors 1/2012; 2/2012; 1/2013; 1/2014.
55   Juntti, 5 August 2025; Ali-Vehmas, 24 August 2025.
56   Juntti, 5 August 2025.

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Nokia's transformation and Nokia Foundation

Timo Ali-Vehmas, who headed the Board of Nokia Foundation from the beginning of 2012, was a long-standing Nokia employee whom Jorma Ollila had met in the early 1990s when he headed Mobile Phones in Salo. In his main role, Ali-Vehmas had been responsible for all standardisation matters at Nokia since 2005. He had also been a member of the Board of Directors of the Walter Ahlström Foundation for years and understood how important foundations are in so many ways. "I was already motivated when I was offered the opportunity to join the Board of Nokia Foundation." Ali-Vehmas brought a professional approach to the Foundation's operations. During his term, the Foundation's rules were updated in 2017 and a handbook was prepared in 2019 to guide the Foundation's processes and regular work. The handbook has been updated over the years as necessary. Ali-Vehmas also brought new ideas for networking and organised visiting lectures for Visiting Professors.[57]

Ali-Vehmas' chairmanship ended in 2020. His successor was Hannu Kauppinen, Doctor of Technology, Chief Technology Officer of Nokia Technologies. At the same time, i.e. since 2021, the Board has had more representatives from

Timo Ali-Vehmas in the 2023 Nokia Foundation Awards Ceremony held in Scandic Grand Central in Helsinki receiving the Nokia Foundation Honorary Recognition Award for his dedicated work as the Nokia Foundation Chair of the Board from 2012 to 2020. Photographer: Mats Vuorenjuuri / Unikuva.

universities than before, which means that the average composition of the Board increased to eight members. Since 2025, the Foundation

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57   Ali-Vehmas, 24 August 2025; Juntti, 5 August 2025; Kauppinen, 3 June 2025.

Manufacturing of Nokia mobile phones.

has been led by Mikko Uusitalo, Doctor of Technology, Nokia Bell Labs. Among university representatives, Professor Kari Systä from Tampere University of Technology, Professor Jukka Manner from Aalto University and Professor Aarno Pärssinen from the University of Oulu served on the Board for a long time.

Hannu Kauppinen the former chair of the board of the Nokia Foundation.

During his uninterrupted term on the Board, Valtteri Niemi alternated in representing Nokia and two different universities. When Niemi joined the Foundation's Board in 2010, he

worked at Nokia Research Center, which he had joined from his position as Professor at the University of Vaasa in 1997. After Nokia, Niemi worked as a professor at the University of Turku from 2012 and at the University of Helsinki from 2015. He served on the Board of Nokia Foundation until the end of 2018. From the 2010s, several doctors were found among Nokia's representatives on the Foundation's Board: Jukka Saarinen, Tapani Ryhänen, Kimmo Hätönen, Asta Kärkkäinen and Jukka Rantala.

Timo Känsälä served as the Foundation Officer from 2009, and he was succeeded first by Salla Kalaja in 2016 and then by Leena Tanner in 2018. Tanner came from Aspicore Oy which had been the Foundation's grant system provider since 2013. In 2020, the Board appointed two Foundation Officers and a secretary for the Foundation. Tanner continued as Foundation Officer, focusing on grants and related tasks, and served as the secretary at the Board meetings. In practice, the management of the Foundation was outsourced to an external professional. The Chair and Board members could now focus more on the selection of grant recipients, among other things. The other Foundation Officer, Dr. Jarkko Pellikka, came from Nokia and his work focused on managing the Foundation and maintaining the Foundation's external and internal network. Since 2021, Dr. Sami Sarpola has been the internal Foundation Officer.[58]

Nokia underwent a major transformation during Ali-Vehmas' term as Chair. In 2012, the company discontinued its own mobile operating system development and replaced it with Microsoft's Windows Phone operating system. In September 2013, Nokia announced the sale of its mobile phone business to Microsoft; the deal was finalized in April 2014, wich announced in May 2016 that it would phase out mobile phone product development in Finland. Nokia focused on the network business. It redeemed Siemens from the joint venture in summer 2013 and continued operations under the name Nokia

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58   Board of Directors 1/2020.

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Networks. The long-negotiated deal with the large French American network manufacturer Alcatel-Lucent was concluded in November 2016.[59] Nokia became even more strongly one of the world's leading providers of network technology.

According to Doctor of Technology Timo Ali-Vehmas, the change in Nokia Foundation's technology portfolio was less significant than in the company's product portfolio. Hannu Kauppinen, who led Nokia Research Center during the turbulent years 2011-2014, describes the divestment of phones as a major change:

> *While mobile phones were still being made, Nokia did hardware and software design. Very extensive software design (operating system) was transferred to Microsoft in 2012 and Nokia focused on increasing the device's performance. We achieved smaller devices, longer battery life, colour screens, faster connections, internet access, videos and more. This was what the research focused on. When the phones were divested in 2014, no research on improving phone features was continued. For example, map technologies were no longer useful, so they were sold off.*

Nokia retained mobile network technology, i.e. connection, video technology (increasingly better video compression quality) and audio technology. It also found a new business opportunity in selling intellectual property rights (IPR) managed by Nokia Technologies to other mobile phone manufacturers.[60]

The changes did not directly affect the operations of Nokia Foundation. According to the statute, the Foundation's goal was to promote the field in Finland, not just to serve Nokia's needs.[61]

However, the changes had an impact on how Nokia organised its research and thereby

"Nokia became even more strongly one of the world's leading providers of network technology."

indirectly on Nokia Foundation, which had had a strong tie to Nokia Research Center. Juhani Kuusi, Tero Ojanperä and Henry Tirri, the first three Chairs of the Foundation's Board, had served as its directors. The Foundation's Officers also came from the Research Center. The Foundation's board meetings had been held in the office building of the Nokia Research Center in Ruoholahti since 1999. At the time, Nokia Research Center sold services to business units and about a quarter of its work was allocated to long-term basic research, which was funded at the group level. For research, "the Ruoholahti era" was the golden age of growth. Large investments were made in research. At its best, Nokia Research Center had 1,200 employees, "of which around 600-800 worked in Ruoholahti. It was the most international workplace in Finland. I guess there were more than 40 nationalities in the same place," Kauppinen remembers.[62]

In 2012, Nokia Research Center moved to the Open Innovation House, which was built by Aalto University in Otaniemi, Espoo. The ICT Labs unit of the European Institute of Innovation and Technology also moved into the same building. The Research Center was discontinued in 2014, but its operations were partially transferred to the research unit of Nokia Technologies, which was established at the same time. In 2012–2013, the Foundation's

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59   Anni Lassila, Nokia dominated the market ten years ago — what happened to its phones? Hs.fi, 12 June 2016.

60   Kauppinen, 3 June 2025.

61   Ali-Vehmas, 24 August 2025.

62   Häikiö 2001, 185; Kauppinen, 3 June 2025.

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Aerial photo of Nokia Bell Labs in Murray Hill New Jersey USA.

Board met mainly at the Keilaniemi headquarters and in 2014 at the Open Innovation House. In 2015, the research unit of Nokia Technologies moved from Otaniemi to Nokia Campus in Karaportti, Espoo, where Nokia was also concentrating its operations.

After the Alcatel-Lucent acquisition, the parts of the Technologies research unit that were suitable for the network business were integrated into the long-standing Bell Labs, which became Nokia's research unit under the name Nokia Bell Labs. Nokia Technologies had approximately 300 employees in 2019, and it was responsible for multimedia research and Nokia's patent portfolio. It also received all inventions from Nokia Bell Labs and other Nokia research units and made them into patent portfolios. Between 2019 and 2023, the number of patents almost doubled. In 2023, Nokia filed more than 2,200 patent applications.[63]

Nokia, a provider of telecommunications networks and licensor of mobile phone patents, still earned revenue from virtually every mobile phone sold worldwide.

Jorma Ollila highlights Nokia Foundation's great impact in the 1990s and early 2000s, pointing out that "Finns are always present where new standards and new ways of using the latest research in telecommunications are created. The Foundation has supported people who are strong enough to be part of the international community to create standards, not only at the conceptual level but also at the concrete level."[64] Yrjö Neuvo was one of the key people in achieving the international wireless standard, which was "immensely important" for Nokia. "The process was huge and heavy, but Nokia had good motivation to do it. It affected many Nokia employees, and if special skills were needed, we had good doctors who brought in technical insights," Neuvo says.[65]

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63   Kauppinen, 3 June 2025.
64   Ollila, 13 May 2025.
65   Neuvo, 6 August 2025.

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Jorma Ollila Fund

The most significant change in the history of Nokia Foundation since it began was the establishment of the Jorma Ollila Fund in 2014. Timo Ali-Vehmas, then Chair of the Board of the Foundation, writes about the creation of the Fund as follows:

> After Jorma Ollila resigned from the chairmanship of Nokia Corporation's Board of Directors in 2012, Nokia's Board of Directors proposed the establishment of a special fund at Nokia Foundation, in which Ollila had played a decisive role.

> The Board of Directors of Nokia Foundation enthusiastically accepted the proposal and stated at its meeting on 4 March 2013 that the fund would strengthen the Foundation's operations both in terms of content and finances. Nokia Corporation's Board of Directors had decided to make a donation of EUR 2.5 million to the capital of the Jorma Ollila Fund, and the Foundation's Board invested the corresponding amount from its share capital. The special fund became part of Nokia Foundation's overall portfolio, but it had its own supplementary rules.

> At this stage, the Board of Nokia Foundation contacted Jorma Ollila and began to draw up a plan for the operations of the special fund. Jorma Ollila's wish was that the fund would offer contemporary young people the same opportunity as he had received when he received a scholarship at Atlantic College. All parties quickly reached an agreement on the rules of the special fund. Inspired by the new operating model, Jorma Ollila personally decided to donate EUR 2 million to the capital of the special fund. The total capital of the Jorma Ollila special fund amounted to EUR 7 million.

> Separate rules were created for the special fund and integrated into Nokia Foundation's guidelines. A special section of the rules encouraged Nokia Foundation's Board to outline periodically changing focus areas for the grants of the special fund. According to Nokia Foundation's own rules, the goal of the Foundation was to promote technical research and development in the telecommunications sector in Finland. In this context, Big data (in practice, AI research and development), nanoscale computing and communication (in practice, 5G semiconductors and their software) and the Internet of Things (in practice, the use of Internet technologies to collect and control information) were selected as the special fund's first focus areas. The

Jorma Ollila, Nokia Corporation chairman from 1999 to 2012 and CEO from 1992 to 2006. Nokia Oyj/Elinkeinoelämän keskusarkisto.

measures required by the special fund also brought new goals to Nokia Foundation's basic operations. Discussions and extensive reflections raised the level of ambition and also required the development of a more efficient operating model for the Foundation.

Recently graduated Doctors of Technology were selected as the target group for the special fund, with the aim of establishing a separate research team. Such activities require a high level of competence, a good team and global networks in the scientific community. In order to accelerate the construction of such a role, the Board of the Foundation considered it best to make the grants larger, possibly covering the costs of several years of research work at a top university abroad.

The Jorma Ollila Special Fund officially started on 1 March 2014 with the aim of distributing the first grants during 2014. The launch of the operations was widely advertised, and a discussion session was organised in connection with the announcement of the

special fund. Of course, Jorma Ollila himself and representatives of the management and professors of Finnish universities participated in the discussions.

The special fund has been active for more than 10 years and during that time it has distributed 48 grants from the fund's proceeds to doctors in technology who have graduated from Finnish universities, totalling EUR 1.1 million.[66]

At the time of the Jorma Ollila Fund promotion event, the Finnish economy suffered from a weak economic cycle, and the competitiveness of industry was poor. For years, Nokia had improved the productivity of work in the national economy. Ollila said that he considered the situation in Finland to be very difficult, "and it will remain so for a long time. That is why long-term efforts are required from all parties to learn how to do things differently and improve productivity." Ollila also said that when he left Nokia's Board of Directors in 2012, "it was already clear that Europe and Nokia were in great difficulty in the mobile phone industry. Three of the world's most popular mobile phone and tablet operating systems nowadays originate from the west coast of the United States, although Europe had been at the forefront for years."

" For years, Nokia had improved the productivity of work in the national economy. "

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66   Timo Ali-Vehmas, Jorma Ollila special fund and grant.

Nokia's historic Villa Koivusaari has hosted many meetings
and planning sessions.

According to Ollila, the young generation of researchers had to "get into the right networks to see how things can be done in a completely new way". The Jorma Ollila Fund tried to find places for researchers at some of the world's best universities, such as MIT, Harvard, Berkeley and Stanford, with whom Nokia collaborated in research. However, according to Ollila, the importance of one fund should not be overestimated, "many more funds of this kind are needed". At the press conference, Timo Ali-Vehmas estimated that "Finland has a strong and healthy belief in technology. However, the fact is that innovation requires a wide range of skills to turn a good idea into a commercial product. Academic research plays an important role in new development." Ollila believed that Finland was well prepared for success in the future. "Everything comes down to training and competence."[67]

In spring 2025, Jorma Ollila said that his personal donation to the Foundation was "repayment for what I have received from the company". He allowed the Foundation to decide the detailed content of the grants and did not want to participate in the decision-making process. "But as your thoughts develop, give me a call every now and then," he remembers saying. Ollila was contacted and "the first idea that we came up with was that if we could find interesting ways to strengthen international connections, we would focus on them. My personal experience had an impact, because I have studied abroad myself and have always seen how people become stronger in their own work when they see what is happening abroad."[68]

According to Markku Juntti, there was a clear need for foreign post doc financing. Representatives of the universities saw this as important in the discussion held in Koivusaari. "The first application rounds were worrying, but soon things started to go well."[69]

The Foundation's Board spent an entire working day at Nokia's villa in Koivusaari planning the Jorma Ollila Fund's operations. After that, the Board held its traditional strategy meeting in August in Koivusaari as a similar one day-session, during which the Board often had the opportunity to discuss with Nokia's Chair of the Board.

67   Petri Sajari, Jorma Ollila invested EUR 2 million in a fund bearing his name. HS.fi, 16 May 2014.
68   Ollila, 13 May 2013.
69   Juntti, 5 August 2025.

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New kinds of cooperation

Establishment of the Jorma Ollila special fund increased the total capital of the Foundation by EUR 4.5 million to more than EUR 20 million but reduced the capital of the basic fund by EUR 2.5 million. As a result, fewer scholarships were granted than before. Since 2002, the annual number of scholarships had been over 70, but their number decreased to 40 in 2016. The amount of each individual grant remained unchanged. In 2021, the Foundation's Board unanimously agreed that the same recipient could only receive the grant once.[70]

The number of scholarships granted to foreign students increased significantly in 2009. The trend has continued and their relative share has increased while the number of grants has decreased. According to Professor Juntti, "the majority of them would like to stay in Finland, many as post-doctoral researchers, while others prefer moving to the business world as quickly as possible. More than two-thirds of doctors who graduated from University of Oulu have stayed in Finland for at least a short time. Some have moved abroad and became professors there."[71]

Hannu Kauppinen points out that the grant recipients represent the best in the industry and are subject to very strict criteria in their selection. Foreigners might apply for more grants than Finns because they need more financial incentives. "But it also shows that the student base in the telecommunications and data processing industry is very international."[72]

In 2019, the Foundation's Board stated that technology had to be visible in the Nokia Scholarship application. For example, the Foundation did not support applications focused solely on medicine or other human sciences. The application also had to have a connection to Finland, either through a Finnish university or collaboration.[73] One of the Foundation's visions was to encourage researchers to continue their careers in Finland, and one of the criteria for awarding grants was the possibility for the recipients to continue research in Finland or cooperate with Finland. Consequently, Yrjö Neuvo received a recognition award in 2021 for, among other things, having established the PoDoCo program that employs doctors in industry.[74]

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70   Board of Directors 4/2021.
71   Juntti, 5 August 2025.
72   Kauppinen, 3 June 2025.
73   Board of Directors 6/2019.
74   Kauppinen, 3 June 2025.

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Nokia Foundation grants Professor Yrjö Neuvo a Recognition Award for achievements in development of postgraduate education. Due to the Covid-19 pandemic, the 2021 event was held virtually.

The 2017 anniversary was held at the Old Student House in Helsinki. In honour of Finland's centenary of independence, Nokia Foundation decided on a Centennial grant of EUR 100,000, of which EUR 10,000 could be allocated to doctoral researchers or recently graduated doctors visiting Finland from abroad. However, the marketing of the grant was difficult, and only three grants were awarded in 2018. In 2020, the grant was discontinued and the unused funds were returned to the basic fund.[75]

Nokia Foundation's fruitful cooperation with the Fulbright Finland Foundation and Nokia's transformation into a leading European telecommunications company through the Alcatel-Lucent acquisition encouraged Nokia Foundation to seek cooperation similar to Fulbright, particularly with German and French universities and their background organisations.[76] In general, it was important for Nokia Foundation to be able to contribute to an active exchange of researchers with a major

technology country. Finding good applicants was a constant challenge for the Foundation, and it did not always have the resources for it. The Foundation specifically sought help for this.[77]

Chair Timo Ali-Vehmas says that he encountered "by chance Mathieu Leporin, Director of Science at the Institute of France in Finland, and soon, we were discussing what kind of cooperation we could build to strengthen research in the Finnish and French technical fields. Things progressed quickly and the Chair presented the matter to the Board of the Foundation in October 2018. The proposal received justified, albeit cautious, support from the Board, and this started the concrete preparation of the matter."[78]

Scholarship recipients were expected to conduct ICT research and teach at a higher research or educational institution in Finland. An agreement on the pilot program was reached in autumn 2019, and the first scholarship was awarded in April 2020 to Professor Jean-Emmanuel Broquin, whose visit was funded by Nokia Foundation and the home university of the scholarship recipient, Grenoble Institut Polytechnique, both for EUR 20,000. Four people had applied for the scholarship. At that time, the COVID-19 pandemic made the visit arrangements difficult. Professor Broquin's visit finally took place in 2021. The host was the University of Eastern Finland in Joensuu.[79]

After the successful pilot phase, the Foundation signed a five-year cooperation agreement with the Institute of France in Finland (Institut francais de Finlande) in January 2022. The first grant application organised by the Institute of France began practically immediately. There was a France-Nokia Chaire d'Excellence grant of EUR 40,000, half of which was funded by Nokia Foundation.[80] No scholarship was granted for

75   Board of Directors 5/2017; 2/2018; 3/2018; 1/2020.
76   Ali-Vehmas, 23 August 2025.
77   Kauppinen, 3 June 2015.
78   Ali-Vehmas, 21 August 2025.
79   Board of Directors 5/2018; 6/2018; 7/2018; 7/2019; 2/2020.
80   Board of Directors 1/2022.

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> **"Nokia Foundation decided to replace the spring 2023 Jorma Ollila Grant with the Researchers Abroad program."**

the 2022–2023 period, which is why the Board decided to award two scholarships for the following academic year.[81]

The Foundation sought different forms of cooperation. The action plan for 2022 stated that Nokia Foundation's management expected

> *the importance of ICT and data-driven business to grow significantly over the next decade. Rapid evolution of the technologies and research methodologies including different collaboration initiatives will significantly influence the environment of the Nokia Foundation. Therefore, the Nokia Foundation will review its activities on an annual basis, aiming for long-term sustainability and dynamic flexibility in target setting. Expanding the visiting professor grant category to add additional national actors to the scope of international collaboration is one of the medium- to long-term targets.[82]*

Among Nokia Foundation's Board members, Jukka Rantala, Aarno Pärssinen and Leena Ukkonen investigated possible German cooperation with Alexander von Humboldt Stiftung.[83]

Cooperation with Finnish foundations was also actively sought. In winter 2022, the Foundation Officer of the KAUTE Foundation, which supports research, teaching and studies in commercial and technical sciences, presented to Nokia Foundation's Board the Researchers Abroad grant program, which was a joint internationalisation program of the Walter Ahlström Foundation, the Foundation for Economic Education and the KAUTE Foundation. Nokia Foundation decided to replace the spring 2023 Jorma Ollila Grant with the Researchers Abroad Grant Program. The aim was to receive more applications for the Jorma Ollila Fund. According to Kauppinen, "we received the ICT applications and some other foundations received applications for business studies, for example." Nokia Foundation awarded three grants through the program in spring 2023 and one larger grant in spring 2024.[84]

Discussions with the Fulbright Finland Foundation about promoting the Jorma Ollila Fund's purpose began in winter 2024 and led to the piloting of the "Fulbright Research Grant for a Junior Scholar in Partnership with the Nokia Foundation" program in the same year. Kauppinen, who participated in the discussions, says that the aim of the program was that "a young Finnish researcher not only ends up in the United States as a researcher, but also gets to network with society".[85]

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81   Board of Directors 3/2023.
82   Action plan 2022.
83   Board of Directors 1/2022; 5/2022; 1/2023.
84   Board of Directors 3/2022; 5/2022; 2/2023; 3/2023; Kauppinen, 3 June 2025; Action Plan 2023.
85   Board of Directors 1/2024; 2/2024; Kauppinen, 3 June 2025.

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The Foundation's impact and challenges related to competence

In 2016, Professor Heikki Hämmäinen asked the Board of Nokia Foundation whether the Foundation should consider shifting its focus towards larger grants. The matter was left to stew. According to the Foundation Officer, the impact project discussed earlier could provide a basis for thinking about more radical changes to the grant portfolio.[86] As the Foundation's 25th anniversary approached, the Chair Ali-Vehmas prepared and commissioned impact assessments of the grants awarded by the Foundation. The extensive assessment strengthened his view that

> the recipients of the grants distributed by the Foundation have been widely positioned in society, across both the academic and business world. It is clear that through this network, knowledge of the Finnish field of research, its principles and objectives have spread all over the world. The role of foundations could be even more important in Finland if the current situation is compared to Sweden and Denmark, for example, where the cooperation between foundations, universities and companies is very strong.[87]

Kauppinen points out that the Foundation is a long-standing actor that follows the mission assigned to it, i.e. it promotes research and teaching in information and communications technology in Finland. At the same time, the Foundation has strived to follow the times. "We have made decisions based on what has been in the forefront of research, but the key sectors, telecommunications, radio, RF and digital technology in general, have remained on the agenda always." During Kauppinen's term, artificial intelligence and quantum technology became increasingly important:

> It cannot be said that Nokia drove the change alone, but rather that technological developments and new industries have driven the Foundation's grant decisions and recognition awards. For example, in 2024, Kimmo Koski from the CSC Information Technology Centre of Science received the Recognition Award. The Award highlighted the fact that high-performance computing is a rising trend in Finland, Europe and elsewhere. New data centres are emerging everywhere, and Finland has been a pioneer

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86   Board 1/2016.
87   Ali-Vehmas, 25 August 2025.

NOKIA
FOUNDATION

Board of the Nokia Foundation 2025, Officers and Sari Baldauf.
From the left: Leena Ukkonen, Sari Nielsen, Petri Mähönen, Mikko Uusitalo, Sari Baldauf, Antti Tölli, Sasu Tarkoma, Jukka Rantala, Leena Tanner and Sami Sarpola.

in that it has been equipped with one of Europe's most powerful supercomputers. [88]

Nokia Foundation recognizes Kimmo Koski Managing Director of CSC – IT Center for Science for his significant role in enabling the European LUMI supercomputer ecosystem.

Through various reforms, the Foundation has gradually focused its activities and raised the level of grants for visiting researchers and post-doc researchers. The amount of the recognition award was increased by 50% to EUR 15,000 in 2023. In 2025, it was decided to increase the scholarship grant by 50% to EUR 7,500. However, no radical changes have been made to the Foundation's operating principles. No capital increases have been made since 2014. The assets have been distributed and locked in a ratio of 61/39 to the base fund and the Jorma Ollila Fund. All grants and awards granted by Nokia Foundation from 1995 to August 2025 are listed in the appendix to this work.

Nokia Corporation's Board of Directors has been chaired by Sari Baldauf since 2020. She has spoken at the Foundation's annual celebrations and discussed with the Foundation's representatives at the Koivusaari strategy meetings. She has not participated in the Foundation's operations. However, she has a strong understanding of the situation in the university world through the

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88   Kauppinen, 3 June 2025.

NOKIA
FOUNDATION

Chair of the Board of Directors, Nokia.

Aalto University Foundation's Board of Directors in 2018-2023 and as the ongoing director of the Aalto University fundraising campaign.

Baldauf says that Nokia is also seeking growth in new areas where the most advanced experts and operators may not come from Finland. She considers it a challenge for Finnish universities to ensure sufficient resources "so that we can ensure high-quality basic education and training and invest sufficiently in areas where we are really good and internationally interesting. If we do not arouse international interest, there is a great risk that we will become marginalised, given our remote location in the north. That would be bad, also for companies." According to Baldauf, the practical challenges faced by universities are the building of international cooperation and their own core competence. "Europe should also be able to work stronger together in the university field and think about who should focus on what in particular. Of course, this should not rule out cooperation with the US, for example, but it is really important that we have some strong expertise."

As Nokia grew in the 1990s, the company "recruited university students even before they had completed their degrees. And Nokia's cooperation with universities was very intense," says Baldauf. "Now, of course, university cooperation covers the whole world. That was also the case at the time, but it was quite strongly focused on Finland and the Nordic countries, partly naturally because the Nordic countries had top expertise and top research in the field. And now, the best talent and cutting-edge research in these essential fields is not necessarily here, but somewhere else."

Jorma Ollila stated in spring 2025 that Nokia Foundation's capital base has never been sufficient. Sari Baldauf shares this view. She does not promise additional funds for the Foundation, but does not reject the idea, either. According to her, Nokia's other research institute and university cooperation and the Foundation's operations could support each other better. "And it is influenced by what Nokia Bell Labs does. One positive aspect of the Foundation's operations is, of course, that it has representatives from different Finnish universities on the Board of Directors. It gives a fairly good overall picture of the field and Finland's challenges." In Baldauf's vision, Nokia Foundation's operations "could be linked to some areas of special expertise and, on the other hand, to strengthening cooperation between higher education institutions and the business world".[89]

"The practical challenges faced by universities are the building of international cooperation and their own core competence."

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89   Ollila, 13 May 2025; Baldauf, 6 May 2025.

NOKIA FOUNDATION

Nokia Drone Networks offers a fully automated, connected UAV
solution tailored for industrial and public safety applications.

**Mikko Uusitalo, Chair of the Board of the Foundation,
looks forward to the next 30 years:**

Investing in R&D is essential for the future well-being of our society. This is especially the case in the ICT domain. The only thing that is constant or certain is change. We must understand the megatrends that will shape the immediate future, such as AI and quantum technologies, as well as whatever comes after them.

The Nokia Foundation Board has launched an exercise during 2025 that aims for more impact and risk. This has been at the core of the Nokia Foundation strategy discussion during 2025.

This history document will be released at the Nokia Foundation annual celebration in November 2025. At the same event, we will also launch an annual award for supporting great quality and impact in education in ICT in Finland.

Over the next 30 years and beyond, we hope Nokia Foundation can set an example and continue strongly by constantly increasing impact in creating a flourishing research, development and education environment in Finland!

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Appendix

Nokia foundation
board members

Awards, grants and
scholarships

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Nokia Foundation Chairs of the Board

Mikko Uusitalo, Nokia	2025–
Hannu Kauppinen, Nokia	2021–2024
Timo Ali-Vehmas, Nokia	2012–2020
Henry Tirri, Nokia	2008–2011
Tero Ojanperä, Nokia	2004–2007
Juhani Kuusi, Nokia	1995–2003

Nokia Foundation Board Members

Sari Nielsen, Nokia	2025–	Tapio Salakoski, University of Turku	2004–2006
Antti Tölli, University of Oulu	2025–	Tero Ojanperä, Nokia	2003–2007
Petri Mähönen, Aalto University	2024–	Ilkka Haikala, Tampere University	2003–2005
Sabrina Maniscalco, University of Helsinki	2023	Olli Silven, University of Oulu	2003–2005
Leena Ukkonen, Tampere University	2023–	Olli Simula, Aalto University	2002–2004
Sasu Tarkoma, University of Helsinki	2022–	Jouni Isoaho, University of Turku	2001–2003
Mikko Uusitalo, Nokia	2022–	Markku Kivikoski, Tampere University	2000–2002
Mikko Valkama, Tampere University	2021–	Matti Latva-aho, University of Oulu	2000–2002
Hannu Kauppinen, Nokia	2021–2024	Tytti Varmavuo, Nokia	2000–2002
Jukka Rantala, Nokia	2020–	Erkki Oja, Aalto University	1999–2001
Petri Myllymäki, University of Helsinki	2019–2021	Ralph Back, Åbo Akademi	1999–2000
Lauri Oksanen, Nokia	2019	Pauli Kuosmanen, Tampere University	1998
Aarno Pärssinen, University of Oulu	2018–2024	Veikko Porra, Aalto University	1998
Asta Kärkkäinen, Nokia	2018	Antti Räisänen, Aalto University	1997
Jukka Manner, Aalto University	2017–2023	Jaakko Talvitie, University of Oulu	1997
Antti Niskanen, Nokia	2017	Petri Vuorimaa, Tampere University	1997
Kimmo Hätönen, Nokia	2015–2021	Pentti Leppänen, University of Oulu	1996, 1998
Tapani Ryhänen, Nokia	2013–2016	Sven-Gustav Häggman, Aalto University	1996
Kari Systä, Tampere University	2012–2020	Markku Renfors, Tampere University	1996
Valtteri Niemi, Nokia, University of Turku and University of Helsinki	2010–2018	Jaakko Astola, Tampere University	1995
Markku Juntti, University of Oulu	2009–2017	Heikki Saikkonen, Aalto University	1995
Heikki Hämmäinen, Aalto University	2008–2016	Jorma Lammasniemi, VTT	1995, 1999
Ari Paasio, University of Turku	2007–2012	Kaj G. Linden, Nokia	1995–1999
Tommi Mikkonen, Tampere University	2006–2011	Juhani Kuusi, Nokia	1995–2003
Henry Tirri, Nokia	2006–2011	Yrjö Neuvo, Nokia	1995–2009
Hannu Heusala, University of Oulu	2006–2008		
Visa Koivunen, Aalto University	2005–2007		
Jukka Saarinen, Nokia	2004–2005, 2009–2014		

Nokia Foundation Officers

Sami Sarpola	2021–	Heikki Välisuo	2007–2008
Jarkko Pellikka	2020–2021	Juha Saarnio	2005–2007
Leena Tanner	2018–	Heikki Välisuo	2001–2005
Salla Kalaja	2016–2017	Simo Luiro	1997–2000
Timo Känsälä	2009–2016	Markku Ranta	1995–1997
Barbara Heikkinen	2008–2009		

Nokia Foundation Recognition Awards

Nokia Foundation has since its establishment in 1995 awarded each year a Nokia Foundation Recognition Award. The themes of the award have varied promoting in some years novel new business ventures while on others recognizing life-time achievements of distinguished individuals from Finnish academia and business.

A special category of the Nokia Foundation Recognition Award is the Nokia Foundation Honorary Award. Honorary Awards have been given to individuals who have made significant contributions for the Nokia Foundation.

Nokia Foundation Recognition Award 2024

Nokia Foundation recognized **Kimmo Koski** Managing Director of CSC – IT Center for Science for his significant role in enabling the European LUMI supercomputer ecosystem.

Dr. Kimmo Koski has played a key role in pursuing the LUMI supercomputer and building a European consortium of eleven countries, securing national funding, and obtaining European Commission funding through EuroHPC for this groundbreaking computing project. This award reflects our appreciation for the work that Dr. Kimmo Koski has done during the last decades for the Finnish high-performance computing, which has culminated in the deployment of the LUMI supercomputer in Kajaani, Finland.

Nokia Foundation Recognition Award 2023

Nokia Foundation recognized Professor Emeritus **Antti Räisänen** from the Aalto University for his achievements in the advancement of radio engineering education and research in Finland.

Antti is a key person on the journey that established Finland as a forerunner in radio technologies for telecommunications and other applications. His relentless passion for developing the radio engineering education and research as well as setting in motion the collaboration between industry and academia have laid the foundation that established Finland as a global leader in Information and Communications Technology.

It should be acknowledged that Antti is one of the most prominent researchers in Finland in radio technology and science. He is a pioneer of the scientific research in the higher frequencies and for this as well as for his other scientific achievements he is one of the few persons in Finland who has received the prestigious IEEE Fellow distinction. During his career he has authored or coauthored more than 500 scientific or technical papers. In addition to his significant achievements in radio engineering research, Nokia Foundation wants to recognize with this award also his lifelong commitment to developing education in the field of radio engineering. During his career Antti has supervised more than 50 doctor's degrees and his reputation as demanding yet highly committed teacher is legendary. Through his teaching and through his students Antti has been a key person in laying the foundation that enabled Finland to leave a mark in the pages of history as the birthplace of mobile communication. For this work Professor Emeritus Antti Räisänen receives the 28th Nokia Foundation Recognition Award.

Nokia Foundation Honorary Award 2023

Nokia Foundation has granted an Honorary Award to Timo Ali-Vehmas for his long-standing contributions and dedication to the Nokia Foundation. As the Chair of the Board of Directors, you navigated the Nokia Foundation securely through times of change. During this time Nokia went through many transformations, but your relentless work ensured that the traditions and mission of the Nokia Foundation continue to be upheld today. At the same time, you actively drove the development of the Nokia Foundation grant programs and enhanced particularly the international collaboration.

Nokia Foundation Recognition Award 2022

Nokia Foundation recognized Professor **Maija Aksela** from the University of Helsinki, for her achievements in development of education in mathematics, natural sciences and technology.

High-quality expertise in science, technology, engineering and mathematics (STEM) is the basis for technological development and future innovation and is central to Finland's future prosperity and wellbeing. Teachers have a vital role to play in inspiring and enabling the next generation to pursue their studies in these fields.

Maija Aksela is Finland's first professor of science education. She has more than 35 years of experience in the development of teaching and teacher training in STEM subjects as well as new and inspiring teaching methods. Nokia Foundation recognizes the outstanding achievements of Professor Maija Aksela in the development of education in mathematics, natural sciences and technology. Of special merit we wish to note her contributions to the LUMA Centre at the University of Helsinki which was established almost 20 years ago to promote the teaching and learning of mathematics, science and technology among pupils, students and teachers.

Nokia Foundation Recognition Award 2021

Nokia Foundation recognized **Yrjö Neuvo**, PhD (EE), Professor and Research Director at Aalto University, for his outstanding achievements in the development of postgraduate education and collaboration with companies in Finland. Of special merit we wish to note the establishment of the PoDoCo (PostDocs for Companies) program for postdoctoral researchers and Bit Bang course for the postgraduate students.

Hannu Kauppinen, Chairman of the board of Nokia Foundation, said: "There's an increasing need to employ doctors in the companies. Especially the Finnish technology companies, Nokia among others, need highly skilled experts who can help the companies to drive innovations and renew products and services. Strong relationships between universities and companies, and making the latest research results available are crucial for developing Finnish economy and society. With this award we want to demonstrate our appreciation for the important work that Yrjö Neuvo is doing to help the doctors become employed in the Finnish companies but also help the postgraduates develop the needed working-life skills."

Nokia Foundation Recognition Award 2020

Nokia Foundation recognized Professor **Mikko Möttönen** for achievements in quantum computing research.

Quantum computing is an emerging breakthrough technology that will radically impact the principles of Information and Communication Technology in the coming years. Ground-breaking work undertaken in quantum computing in Finland has required long-term research in low-temperature physics, for example. With this award, we want to honor the importance of this work, significant recent achievements, and the extensive cooperation between those working in the field of university research and many other sectors of society. Of special merit, we wish to note the exceptionally courageous commercialization of the scientific results.

Nokia Foundation Recognition Award 2019

Nokia Foundation has granted a Recognition Award to Elements of AI, **Hanna Hagström, Teemu Roos**. Elements of AI is an online course that has significantly impacted the awareness and knowledge on Artificial Intelligence in Finland and elsewhere. Artificial Intelligence is part of our everyday life and the Elements of AI course enables democratic, diverse and inclusive utilization of this critical technology throughout the society.

Nokia Foundation recognizes the outstanding work Hanna Hagström, Director of AI Business at Reaktor, and Teemu Roos, Leader of AI Education at the Finnish Center for Artificial Intelligence and Associate Professor in Computer Science at the University of Helsinki have done. The Elements of AI course has helped to teach the basics of AI to more than 220 000 people in 110 countries. The course is currently available in English, Finnish, Swedish and Estonian.

Nokia Foundation Recognition Award 2018

Professor and the Leader of the Microelectronics Research Unit in University of Oulu, **Heli Jantunen**, has had several roles in the area of ICT electronics, manufacturing and materials. She is a founder of a company, and as a researcher, she has had over 40 industrial partners. Research in her group spans over multitude of domains of industrial significance, ranging from high frequency applications, energy harvesters, sensors, multifunctional micro modules to modern manufacturing methods like printed electronics. In particular, she has advanced knowledge on technology in electro ceramics and related composites for above mentioned application areas. Her research has been awarded and funded by impressive list of funding agencies, such as Tekes, Academy of Finland, NiCe, EU, ERA.Net and ERC with the Advanced Grant.

She is a prolific inventor of more than 70 patents and has over 250 peer-reviewed scientific publications. She has served as a member of the Research Council for Natural Sciences and Engineering, Academy of Finland, and is currently the General Chair of the Scientific Advisory Board of Defense. Additionally, she is an Academician Member of the World Academy of Ceramics from 2013.

Nokia Foundation Recognition Award 2017

Nokia Foundation has granted its 2017 Recognition Award to professor emeritus **Erkki Oja** for his contributions to the development of machine learning, pattern recognition and neurocomputing, which are key technologies in artificial intelligence and robotics.

Professor emeritus of Finland's Aalto University and a holder of honorary doctorates from three universities, Erkki Oja is one of the most widely cited researchers in the world of machine learning based techniques, with more than 300 scientific articles leading to over 46 000 citations in the field. In his research, Oja has focused especially on unsupervised machine learning that allows computer algorithms to automatically analyze very large masses of data. In addition to his research work, he has made a significant impact on teaching young researchers, over 50 of whom currently hold a doctoral degree, active in both industry and academia. Oja has also promoted Finnish science and ICT in his several positions of trust, including the chairmanship of the Academy of Finland's Research Council for Natural Sciences and Engineering, which under Oja's leadership has launched several notable national and international research programs.

"After doing research on machine learning and neural networks for a long time, it is very rewarding to see how these technologies are now being implemented in a growing number of commercial and other applications. Artificial intelligence is clearly becoming practical. I am happy that we started these activities very early and were able to train a large number of experts to fill the great demand," said Erkki Oja.

"Machine-learning and artificial intelligence are among the most significant technological developments in recent history. The foundational and long-term research path Erkki Oja has pursued, along with his focal role in the development of the research community around the technologies, has resulted in having 100-year-old Finland in a distinctly good position to fully embrace this data-intense era. Erkki Oja's work has been noted widely internationally, too, and we are proud to recognize this year his outstanding contributions in the field," said Timo Ali-Vehmas, Chairman of the Board of Nokia Foundation.

Nokia Foundation Recognition Award 2016

Nokia Foundation recognized **Jari Arkko** for his contributions to the advancement of the Internet and its technologies and applications.

For the great contributions to the advancement of the Internet and its technologies and applications during the last 20 years, as well as for your leadership in the global Internet standardization as the chairman of the Internet Engineering Task Force since 2013. You are known as a pioneer in the development of the Internet Protocol version 6, the Mobile Internet and Internet security including your work for the open and community driven Internet of Things. You are leading by example and you represent the best values of the Information and Communications Technologies of Finland.

Nokia Foundation Honorary Award 2015

Nokia Foundation has granted a Honorary Award to **Juhani Kuusi** for all of the hard work and dedication that helped to build the Nokia Foundation as an important innovative force in its field. The procedures and traditions that were formed under your extensive chairmanship have truly stood the test of time, and are a tribute to your inspiring leadership. Not only have you contributed to the establishment of the Nokia Foundation, you have also been a true pioneer for the information and communication technologies, driving innovations that have transformed the way people communicate with one another and with the connected world.

Nokia Foundation Recognition Award 2015

Nokia Foundation has granted a Recognition Award to **Matti Latva-aho** for the great contributions to the advancement of radio technology and its application to wireless access standards creation, as well as for your leadership in the Finnish radio technology research and development community. You are known as a pioneer in the development of air interface and link layer technologies applied in the 3G and the 4G cellular networks, with foreseeable applications in the evolving 5G systems. You have been a research leader in radio access technology in several national and international research activities that have had a significant impact on the wireless technologies, standards and their business applications. You have served as the Director of Centre for Wireless Communications at the University of Oulu, contributing to its development into a highly international center of excellence in radio and wireless technologies.

Nokia Foundation Recognition Award 2014

Nokia Foundation has granted a Recognition Award to **Zach Shelby** for outstanding contributions to the Internet of Things standards, especially in the areas of IPv6 over Low power Wireless Personal Area Networks, routing, web services and security. He is a true pioneer in the use of IPv6 technology that forms the heart of wireless sensor networks and the internet of the connected objects. His entrepreneurial work at Sensinode on the commercialization of the technologies and device solutions was a remarkable technology success, and showed notable future potential. His thought leadership in the industry continues to grow in his current role as the Director of Technical Marketing for Internet of Things at ARM.

Nokia Foundation Recognition Award 2013

Award 2013 was granted for **Ville Kairamo** due to an exceptional contribution in creating an open innovation

platform concept, in Finland and abroad. The successful Demola innovation platform enables students and universities to develop new products and services together with companies, to solve pressing real-world problems and challenges. Demola has, under Kairamo's leadership, made outstanding innovative achievements in facilitating university, industry and regional cooperation, whilst proactively taking advantage of international opportunities. During the first three years, over 200 services and prototypes have been developed by Demola. Kairamo's leadership has been a truly cross-border example of innovation, and has made him a positive role model for many young persons in different international communities.

Nokia Foundation Honorary Award 2012

Jorma Ollila is the main catalyst behind the creation and growth of the Nokia Foundation. He saw the need to create a foundation that would focus on telecommunications research in the broad sense of the term. This was at the time when the digitalization of wireless communications was emerging and about to create the conditions for fundamental breakthroughs in technologies, usage and business concepts. Jorma Ollila clearly saw the need to strengthen Finland's knowledge base in this emerging area. Jorma Ollila was the influential force behind the establishment of the Foundation, and he later went on to strengthen Nokia's position in line with the growing needs of Finland's national research activities. His devotion to the activities of the Nokia Foundation has been instrumental in its success. His contributions have enabled the Nokia Foundation to become a major platform for an annual social gathering of leaders from Finnish academia and the government, as well as from other Finnish organizations related to the Finnish telecommunications and research community.

Nokia Foundation Recognition Award 2012

Nokia Foundation Recognition Award was granted to **Tommi Jaakkola** for his fundamental contributions to the field of machine learning and their applications in many different domains. Jaakkola has substantially advanced several important fields of science, such as computational biology and information retrieval. His work has had a wide impact across many scientific communities and you have guided many young scientists to successful careers. Tommi Jaakkola's own career provides an inspiring and encouraging example for scientists, also ones coming from a small country. He has showed how to reach the forefront of scientific research at young age and how to continuously expand human knowledge in collaboration with other top scientists.

Nokia Foundation Honorary Award 2011

First ever Nokia Foundation Honorary Award was granted in 2011, together with Nokia Research Center, to

Professor **Yrjö Neuvo** from the Aalto University due to his extraordinary and long-standing contributions to success of both Nokia Research Center and Nokia Foundation, and also for groundbreaking contributions to technological advancements that have brought benefits to billions of people. Yrjö Neuvo's exemplary career, deep scientific thinking, inspiring leadership, personal hands-on attitude and skillful actions

Nokia Foundation Recognition Award 2011

This year's winner of the Nokia Foundation Award is Professor **Riitta Hari** due to her scientific contributions to the brain research field. Professor Hari has pioneered the use of MEG to record the spatiotemporal pattern of brain activity, thereby providing fundamental insights into auditory, somatosensory, visual, and pain processing as well as motor control in healthy subjects and patient groups. Professor Hari also has demonstrated the existence of a "mirror-neuron system" in the human brain, as well as abnormalities in this system in autistic subjects as examples of Hari's contributions. Riitta Hari's exemplary career and devotion to scientific research has made her a positive role model for many young scientists.

Nokia Foundation Recognition Award 2010

This year's winner of the Nokia Foundation Award is Professor **Jaakko Astola** of the Tampere University of Technology, who has been studying, writing and teaching in the field of signal processing for four decades.

Signal processing is the science of extracting information from raw data, be that sounds, pictures, numbers or radio waves. As such, it's obviously a vital part of the science that makes mobile devices possible.

The professor's contributions to the telecommunications industry include studies in mathematics, information theory, nonlinear signal processing, and a wide spectrum of applications in engineering, all of which have had a profound impact. The award also recognises his exemplary career and devotion to scientific research and teaching.

Professor Astola began his academic career with work in data correcting code back in the seventies, before moving on to areas such as image processing and compression. His work is one of the reasons that we're now able to view and shoot videos on a mobile device, for example.

While the professor has recently turned 60 and professes a love of billiards and horses, there's no suggestion that he's likely to retire soon and says he wishes to devote his energies to further research for years to come.

"This year's award focuses on the encouragement of profound science, where often many years pass before the world can reap the benefits from the research. It is a great honour to recognize an individual whose long-term work in science has created a platform for many technological breakthroughs. Professor Jaakko

Astola is being awarded particularly for his contribution in the development of sophisticated signal processing methods that have been used in many ICT applications including cell phones." said Henry Tirri, head of Nokia Research Center and Chairman of the Board of the Nokia Foundation.

Nokia Foundation Recognition Award 2009

The Nokia Foundation has granted its 2009 award to **Jimmy Wales**, the founder of Wikipedia, the free, multilingual encyclopedia. Wales was awarded for his contributions to the evolution of the World Wide Web as a participatory and truly democratic platform.

"It's a great honor to present this award on behalf of the Board of the Nokia Foundation to an individual who we believe has made a unique contribution to accelerating online collaboration and interaction for millions of people around the world, and effectively democratizing information sharing," said Henry Tirri, head of Nokia Research Center and Chairman of the Board of the Nokia Foundation. "The theme for this year's award is Open Innovation, a way of working which is very important for our activities at Nokia Research Center, and a value which we believe is embodied in the participatory and inclusive approach of Wikipedia," he continued.

Since its creation in 2001, Wikipedia has grown rapidly into one of the largest reference web sites, so far attracting an average of more than 330 million monthly visitors this year. There are more than 75,000 active contributors working on more than 14,000,000 articles in more than 260 languages. Wales is also the co-founder of Wikia.com, a project which expands the participatory editing model into new areas, allowing the global community to come together to build the "rest of the library".

Nokia Foundation Recognition Award 2008

Nokia Foundation has granted its 2008 award to **Aapo Kyrola and Sampo Karjalainen**, the founders of Sulake Corporation Inc., which is best known for its Habbo virtual world and online community.

"Aapo Kyrola and Sampo Karjalainen have been chosen for this award because of their contributions to collaborative media and social networking. The Habbo virtual world is loved by teenagers all over the world as an easy way to meet new people and keep in touch with friends. The design of the virtual characters is unique, and the constantly evolving features of the collaborative game have driven innovation in an area where competition is tough," said Henry Tirri, Head of Nokia Research Center.

Since Sulake was founded in May 2000, over 100 million users have registered with the Habbo service. The Habbo virtual world and online community attracts close to 10 million unique visitors each month. Sulake has offices in 18 countries across five continents and employs over 300 people.

"Research is what allows a company to not only survive economic turmoil, but actually thrive once the market has stabilized again. R&D can be considered an insurance policy, whose premiums are paid during good economic times, hedging against uncertainties in the marketplace. Those companies that are able to focus their efforts and continue to create new, innovative products will be best positioned as the situation improves,"Jorma Ollila, Chairman of Nokia's Board of Directors, noted in his address at the Foundation's ceremony.

Nokia Foundation Recognition Award 2007

Nokia Foundation has granted its 2007 award to **Pekka Abrahamsson** for his merits in researching and developing global software development and processes.

Pekka Abrahamsson is a research professor at VTT Technical Research Centre of Finland and currently head of the FLEXI-ITEA2 project, which aims to improve the competitiveness of Europe's software development by accelerating and adapting global product development and innovations. There are 37 organizations from eight European countries involved in the project. Abrahamsson is a pioneer of agile software development in Finland, and his team designed Mobile-D, the agile approach for mobile application development. Abrahamsson has also coached several agile software development projects in industry and has authored more than 55 scientific publications on software development and processes.

"Software is one of the key elements driving the Information, Communication and Telecommunications' role in the economy. At Nokia, the company is branching out into software and services in a unique way, compared with the mobility industry at large. Nokia is renewing and transforming business models, taking different approaches than in the past, as software increases in value," Jorma Ollila, Chairman of Nokia's Board of Directors, noted in his address at the Foundation's ceremony.

Nokia Foundation Recognition Award 2006

Nokia Foundation has granted its 2006 award to **Mårten Mickos** for his merits in advancing the use of Open Source technology and for his inspirational leadership of an international software company.

Mårten Mickos has strong merits in the leadership positions of international high-tech companies. Since 2001, he has been CEO of the Open Source company, MySQL. Mickos is known as a strong advocate of the Open Source community and MySQL has been at the forefront of developing successful business around open source. Mickos is a popular key-note speaker at international technology events where his opinions about

NOKIA FOUNDATION Awards, Grants and Scholarships

commercializing and inspiring innovation are noted and discussed widely.

"Every company makes focused investments to maintain and inspire innovativeness. There is a lot of power in open innovation. The example of Internet today strengthens the belief that Nokia has held for a long time: Open standards and platforms create a foundation for success. They enable interoperability of technologies and encourage innovativeness and healthy competition, which in turn increases consumer choice and opens entirely new markets," Jorma Ollila, Chairman of Nokia's Board of Directors, noted in his address at the Foundation's ceremony.

Nokia Foundation Recognition Award 2005

Nokia Foundation has granted its 2005 recognition award to Professor **Moncef Gabbouj** from the Tampere University of Technology for his academic contributions in signal processing.

Nokia Foundation Recognition Award 2004

Professor of Developmental Neuropsychology, **Heikki Lyytinen**, was given the annual Nokia Foundation Award for his pioneering research promoting the use of information technology and game-based solutions in the development of learning environments for children. Based on his research, Professor Lyytinen has defined a set of implementation principles for game-based learning environments that encourage children to practice efficient learning methods. Learning environments developed on the basis of these principles have led to good results with children learning to read. Explaining the reason behind its decision, the Nokia Foundation board noted, "Lyytinen's work is a good example of how games can be used for the benefit of education."

Nokia Foundation Recognition Award 2003

Professor **George Metakides** (1945–) was awarded the Nokia Foundation annual award in the year 2003 for his merits in advancing information technology research, development and international cooperation in Europe and in Finland. Professor Metakides received his Ph.D. in Mathematical Logic from Cornell University in 1971 and pursued a distinguished academic career in the top US universities including MIT, Cornell and Rochester. Between 1984 and 2002 he held several senior positions in European institutions with responsibilities for R&D policy, funding and international cooperation. He served as the Director of the ESPRIT Programme (European Strategic Programme of Research in Information Technology) and as the Director of Essential Technologies and Infrastructures of IST Programme (Information Society Technologies). A regular visitor in Finland, Professor Metakides has been a significant contributor to the active participation of Finnish universities, research institutes and businesses in European research initiatives.

Nokia Foundation Recognition Award 2002

Epec Oy of Seinäjoki, Finland, was established in 1978 by **Veikko Rintamäki**, M.Sc. and Chairman of the Board. In addition to developing control systems for machinery, the company designs and manufactures in-house the electronic, programmable basic components or modules required for these control systems. In cooperation with customers, the modules are developed for control systems to be installed in customer machines. As a producer of more than a thousand different electronic devices, Epec's products range from feeding systems for largescale pig farms to intelligent control systems for forest machines. The Foundation granted its award to Veikko Rintamäki for the persevering and successful development of business operations that are based on a diverse and renewable application of knowledge and expertise in the IT sector.

Nokia Foundation Recognition Award 2001

Professor at the Software Systems Laboratory, Tampere University of Technology, **Ilkka Haikala** (1952–) has advised hundreds of theses, written some of the most important text books in software production, and trained a wide variety of software project managers in Finland. The Foundation's justifications for choosing the recipient of its award: "Professor Ilkka Haikala's inspiring educational and research activities in software technology, an area of critical importance for our industry and our entire economy, have been unusually extensive and successful. Not only has he been the advisor to 450 theses, but he has been a proliferate producer of educational materials for the sector and has widely promoted software technology research and seminar activities, which has had a major impact on the development and transfer of knowledge and technology in the sector".

Nokia Foundation Recognition Award 2000

Emeritus Professor **Osmo A. Wiio** (1928–) is an internationally recognized researcher of communications. Among his topics of research are the readability of texts, organizational communications, and general theories of communication. In addition to a noteworthy academic career, Osmo A. Wiio has written several books, articles, TV and radio programs on technology, the society of the future, and politics. He was a Member of Parliament from 1975–1979.

Osmo A. Wiio received the Nokia Foundation Award for his many years of inspiring and successful publishing work boosting the level and interest in Finnish radio and telecommunications technology. His works and writings have significantly expedited the hobby of radio technology in Finland and, through it, also the industry.

Nokia Foundation Recognition Award 1999

Mathematics educator **Kullervo Nieminen** (1942–) paid special attention to the training opportunities for mathematically gifted students and funded the Päivölä folk high school, a boarding school in Valkeakoski, Finland. The Päivölä School has a special focus in teaching science and information technology. During their studies the students are often engaged in practical training at the Nokia Research Center in the so-called project Toijala. The school's students have achieved good success in national and international math and physics competitions. The first students graduated from the Toijala project in 1999. The Foundation granted the award to Kullervo Nieminen "for his multifunctional and successful work in the development of math education."

Nokia Foundation Recognition Award 1998

Academician **Arto Salomaa** (1934–) has served as Professor of Mathematics at the University of Turku, Academy Professor at the Academy of Finland, and as a visiting lecturer at several foreign universities. He is a distinguished and active developer and researcher of fields that have had a profound impact on the evolution of computer sciences. He has authored several respected scientific materials and has written and edited hundreds of scientific articles. Arto Salomaa's works have been translated into several languages and he has received many honorary awards and distinctions during his career. His scientific achievements and organizational skills are highly recognized in the international science community. He was awarded the title of Academician in 2001.

For Professor Arto Salomaa, the Nokia Foundation Award was in recognition of his groundbreaking work in the development of Finnish education, research and applications in the field of theoretical information technology and cryptology. "Arto Salomaa can be considered a national master in cryptology whose work has significantly increased the Finnish internationally recognized competence in the field."

Nokia Foundation Recognition Award 1997

Linux operating system creator **Linus Torvalds** (1969–) is one of the most famous Finns in the world. Torvalds created Linux when he was a 21-year-old student in 1991. Since then, the Linux open source code has been developed around the world.

In selecting the recipient of the third award in the Nokia Foundation's history, the Foundation emphasized Linus Torvalds' excellent achievements in information and telecommunications technology and especially his inspiring example for young researchers in the sector. In explaining its selection criteria in 1997, the Foundation noted: "Linus Torvalds' achievements demonstrate that with determination a talented person can make it to the top – even with minimal assistance – in one of the most competitive areas both technologically and commercially. His eöxample is apt to encourage young researchers to tackle challenging projects, and to aspire to get the results put into practical applications."

Nokia Foundation Recognition Award 1996

Former Secretary-General of the International Telecommunications Union (ITU) Dr **Pekka Tarjanne** (1937–) played a central role in the conversion of Posts and Telecommunications of Finland as a whole into a commercial company when he held the position of Director-General of Posts and Telecommunications in 1977–89. As Secretary-General of the ITU in 1989–1999, he made a significant contribution to the development of global telecommunications. After obtaining a Ph.D. from the Helsinki University of Technology, he engaged in research and teaching work in Denmark, the United States and at universities in Oulu and Helsinki, Finland. Tarjanne's merits include his notable political career through which he has also significantly influenced the telecommunications industry.

The Nokia Foundation Award was granted to Pekka Tarjanne for his contribution to the deregulation of telecommunications in Finland and for his distinguished research work and teaching at Finnish universities.

Nokia Foundation Recognition Award 1995

Engineer **Lauri Kuokkanen** (1931–) has established five electronics industry-subcontracting companies and piloted them successfully. The companies started by Kuokkanen in 1995 employed close to 1 500 employees, mainly in the Oulu region. One of Lauri Kuokkanen's inventions is duplex filter technology, which enabled simultaneous transmission and reception of voice communications in the first mobile phones.

The Nokia Foundation's first recognition award was granted to Engineer Lauri Kuokkanen for his pioneering work in the development of radiotelephones. "The companies established by Kuokkanen have successfully developed world-class components that apply the in-depth theoretical understanding of the discipline," the Nokia Foundation reasoned in 1995.

Fulbright-Nokia Distinguished Chair in ICT

The Fulbright-Nokia Distinguished Chair in Information and Communications Technologies (ICT) offers a unique opportunity for a U.S. scholar and/or specialist to engage in international research, collaboration, teaching and guest lecturing at a higher education institution in Finland and to boost industrial-academic collaborations.

The Fulbright-Nokia Distinguished Chair in Information and Communications Technologies is funded by the Nokia Foundation and the Fulbright Finland Foundation. The grant program has been established in 2000 and has brought a total of 28 scholars from United States to visit Finnish universities.

Fulbright-Nokia Distinguished Chair 2023-2024

Zhuming Bi

Purdue University Fort Wayne, USA

Topic: Digital Triad and Internet of Digital Triad Things for Lifecycle Information Integration

Host: LUT University, Finland

Grant: 22 400 €

Venugopal Veeravalli

University of Illinois at Urbana-Champaign, USA

Topic: Sequential Inference with Applications to Flexible Spectrum Sharing and Dynamic Event Detection

Host: Aalto University, Finland

Grant: 22 400 €

Fulbright-Nokia Distinguished Chair 2022-2023

Allen D. Malony

University of Oregon, USA

Topic: At the Dawn of Exascale: Delivering High-Performance Computing for Scientific Discovery

Host: University of Helsinki, Finland

Grant: 50 400 €

Fulbright-Nokia Distinguished Chair 2021-2022

Patrick Crowley

Washington University in St Louis, USA

Topic: Robustness, Privacy, and Impact with Named Data Networking

Host: University of Helsinki, Finland

Grant: 22 400 €

Aditya Johri

George Mason University, USA

Topic: A Comparative Inquiry into the Ethics of Artificial Intelligence (AI) for Education

Host: Aalto University, Finland

Grant: 25 200 €

Fulbright-Nokia Distinguished Chair 2020-2021

Paul Berger

Ohio State University, USA

Topic: Ultra-low Temperature Deposition using Atomic Layer Deposition and Self-Assembled Printed Soft Electronics for Internet-of-Things and Medical Wearables

Host: Tampere University, Finland

Grant: 44 800 €

Fulbright-Nokia Distinguished Chair 2019-2020

Anne Klinefelter

University of North Carolina, USA

Topic: Comparative Privacy Law & Digitization Design for Access and Privacy

Host: University of Helsinki, Finland

Grant: 22 400 €

Brendan Mumey

Montana State University, USA

Topic: Computational Challenges Arising from Pangenomics

Host: University of Helsinki, Finland

Grant: 28 000 €

Fulbright-Nokia Distinguished Chair 2017-2018

Gonzalo Arce

University of Delaware, USA

Topic: New Frontiers for Compressive Spectral Tomograp

Host: Aalto University, Finland and Tampere University of Technology, Finland

Grant: 16 800 €

Fulbright-Nokia Distinguished Chair 2016-2017

Carol Tenopir

University of Tennessee - Knoxville, USA

Topic: Information and Communication Technologies: Impact on Scholarly Communication

Host: Hanken School of Economics, Finland

Grant: 50 400 €

Fulbright-Nokia Distinguished Chair 2015-2016

Rao Bhaskar

University of California, San Diego, USA

Topic: Statistical Methods for the Sparse Signal Recovery Problem and its Applications

Host: Tampere University of Technology, Finland

Grant: 33 600 €

Dario Salvucci

Drexel University, USA

Topic: Predicting Driver Distraction with Cognitive Architectures

Host: University of Jyväskylä, Finland

Grant: 22 400 €

Fulbright-Nokia Distinguished Chair 2014-2015

Jay Gillette

Ball State University, USA

Topic: "ICT for ICD": Information and Communications Technology for Intelligent Community Development

Host: University of Oulu, Finland

Grant: 28 000 €

Fulbright-Nokia Distinguished Chair 2013-2014

Peter Brusilovsky

University of Pittsburgh, USA

Topic: Research and Teaching in the Area of Learning Technologies and Adaptive Systems

Host: University of Helsinki, Department of Computer Science & HIIT, Finland

Fulbright-Nokia Distinguished Chair 2012-2013

Stuart Brotman

Harvard University, USA

Topic: National Broadband Policies: Finland and the U.S. in Comparative Context

Host: University of Helsinki, Faculty of Social Sciences, Media and Communications Studies, Finland

Fulbright-Nokia Distinguished Chair 2012-2013

Matthew Turk

University of California, Santa Barbara, USA

Topic: Vision-based Interaction for Natural Human-computer Interfaces in Mobile Environments

Host: University of Oulu, Finland and University of Tampere, Finland

Fulbright-Nokia Distinguished Chair 2010-2011

Gonzalo R. Arce

University of Delaware, USA

Topic: New Frontiers for Compressive Sensing in Communications and Imaging

Host: Aalto University School of Science and Technology, Finland

Chung Chieh (Jay) Kuo

University of Southern California, USA

Topic: Research on Power - and Spectrum-Efficient Mobile Video Technology

Host: Tampere University of Technology, Finland

Fulbright-Nokia Distinguished Chair 2009-2010

John Raquet

Advanced Navigation Technology Center of Air Force Institute of Technology, USA

Topic: Advanced Navigation Technology

Host: Tampere University of Technology, Finland

Fulbright-Nokia Distinguished Chair 2008-2009

James Morris

Portland State University, Maseeh College of Engineering and Computer Science, USA

Topic: Nanotechnology Applications in Electrically Conductive Adhesives (ECAs) for Electronics Packaging

Host: Helsinki University of Technology, Laboratory of Electronics Production Technology, Finland

Ece Yaprak

Wayne State University, College of Engineering, USA

Topic: Project: Study of Short Range Wireless Communications

Host: University of Oulu, Centre for Wireless Communication, Finland

Fulbright-Nokia Distinguished Chair 2008-2009

Yih-Fang Huang

University of Notre Dame, Department of Electrical Engineering, USA

Topic: Project: MIMO-OFDM for Emerging Wireless Communications Technology

Host: Helsinki University of Technology, Signal Processing Laboratory, Finland

Fulbright-Nokia Distinguished Chair 2008-2009

Roberta Lamb

University of Hawaii, Manoa, USA

Topic: Project: Collaborative Studies of Information and Communications Systems

Host: University of Turku, Finland

Kent Mason Sandoe

California State University, Chico, USA

Topic: Information Technology and the Choreography of Work; Current Issues in Information Technology

Host: University of Turku, Finland

Fulbright-Nokia Distinguished Chair 2004-2005

Bryan Pellom

University of Colorado - Boulder, Center for Spoken Language Research, USA

Topic: An Investigation of Methods for Multilingual Speech Recognition and Statistical Language Modeling with Application to Literacy Tutors for Children

Host: Helsinki University of Technology, Laboratory of Computer and Information Science, Finland

NOKIA FOUNDATION Awards, Grants and Scholarships

Fulbright-Nokia Distinguished Chair 2003-2004

Carlos Pomalaza-Ráez

Indiana University a Purdue University, Fort Wayne, Department of Engineering, USA

Topic: Research on Distributed Wireless Communication Networks; Lecture and Seminars on Wireless Communication Systems

Host: University of Oulu, Centre for Wireless Communications & Telecommunications Laboratory, Finland

Fulbright-Nokia Distinguished Chair 2002-2003

Luu Nguyen

National Semiconductor Corporation, USA

Topic: Reliability of Compact Lead-Free Products and Design-for-Manufacturability of Optoelectronic Modules

Host: Helsinki University of Technology, Laboratory of Electronics Production Technology, Finland

Fulbright-Nokia Distinguished Chair 2000-2001

Kaveh Pahlavan

Worcester Polytechnic Institute, Electrical and Computer Engineering Department, USA

Topic: Advanced Wireless Networks

Host: University of Oulu, Centre for Wireless Communications & Telecommunications Laboratory, Finland

Fulbright Research Grant for a Junior Scholar in Partnership with the Nokia Foundation

The purpose of the Fulbright Research Grant for a Junior Scholar in Partnership with the Nokia Foundation award is to enable scholars in ICT fields to carry out research projects in the U.S. and at the same time act as ambassadors for the Fulbright program, Finland, and their home institution, sharing their culture and contributing to the relations between Finland and the U.S.

This grant program was started in 2024 and since one award has been granted in the program. Funding for this program comes from the Jorma Ollila fund.

Fulbright Research Grant for a Junior Scholar in Partnership with the Nokia Foundation 2024

Nuutti Tervo

University of Oulu

Topic: Generalized Joint Analog-digital Optimization of Nonlinear Sub-terahertz Power Amplifiers in Antenna Arrays (GENIUZ-PA)

Host: University of California, Santa Barbara, USA

Grant: 30 000 €

NOKIA FOUNDATION Awards, Grants and Scholarships

France-Nokia Chaire d'Excellence in ICT

The France-Nokia Chaire d'Excellence in Information and Communications Technologies (ICT) offers a unique opportunity for a French scholar to engage in an international research collaboration. The Chaire d'Excellence position is available for scholars and specialists in Information and Communications Technologies and includes research and lecturing at a higher education or research institution in Finland.

This grant program is carried out in collaboration between the Nokia Foundation and the Institut français Finlande. The program was started in 2020 with a pilot and was then established as continuous program in 2022. In total 5 French scholars have visited Finland as part of the grant program.

France-Nokia Chaire d'Excellence 2025-2026

Nicolas Mansard

LAAS-CNRS, Toulouse, France

Topic: Advancing Reinforcement Learning Toward Foundation Models in Robotics

Host: Aalto University, Finland

Grant: 20 000 €

France-Nokia Chaire d'Excellence 2024-2025

Maxime Pelcat

INSA Rennes, IETR, France

Topic: Ecodesign of Systems-on-a-Chip

Host: Tampere University, Finland

Grant: 17 900 €

France-Nokia Chaire d'Excellence 2023-2024

Marco Di Renzo

Paris-Saclay University, France

Topic: Metamaterial-Aided Wireless Communications: From Electromagnetic Modeling to Network Optimization and System-Level Validation

Host: University of Oulu, Finland

Grant: 17 200 €

Antoine Doucet

La Rochelle Université, France

Topic: ROBUSTA – Artificial Intelligence for the Robust Analysis of Textual Contents

Host: University of Helsinki, Finland

Grant: 10 000 €

France-Nokia Chaire d'Excellence 2020-2021

Jean-Emmanuel Broquin

Grenoble Institut Polytechnique, France

Topic: Novel Glass Platform for Telecom Signals Generation

Host: University of Eastern Finland, Finland

Grant: 20 000 €

Jorma Ollila Grant

The Jorma Ollila Fund was established in 2014 to support recently graduated doctors to further develop their research careers in the field of Information and Communications Technologies (ICT) or in areas supporting the development of these branches of science. Target group for the Fund are postdoctoral researchers as well as younger scholars on the tenure track in Finnish universities.

The focus of the Jorma Ollila Grant program is founded on the experiences that Jorma Ollila had during his early career and how the international experience helped him progress his career. Since 2014 a total of 43 Jorma Ollila Grants have been awarded.

Jorma Ollila Grants 2024

Sumit Singh

University of Oulu, Finland

Topic: Design and Development of Digital RF Transmitter ICs at 3GPP FR3 Frequency Range Towards 6G Communications

Host: Interuniversity Microelectronics Centre (IMEC), Leuven, Belgium

Grant: 26 000 €

Jorma Ollila Grants 2023

Onel Luis Alcaraz López

University of Oulu, Finland

Topic: End-to-End Optimization of High-power and Safe RF Wireless Power Transfer Systems

Host: Rice University, USA

Grant: 5 500 €

Kai-Kristian Kemell

University of Helsinki, Finland

Topic: Utilizing Generative AI to Transform SE – Current State of Practice, Challenges, and Good Practices

Host: University of South-Eastern Norway, Norway

Grant: 8 600 €

Lucie Klus

Tampere University, Finland

Topic: Multi-Technology Convergence for Ultra-Reliable Localization and Sensing Toward the 6G Era

Host: University of California, Los Angeles (UCLA), USA

Grant: 13 500 €

Duy Tung Phan

University of Oulu, Finland

Topic: REACH-6G: Reconfigurable Intelligent Surfaces Using Microfluidic Tuning Mechanism for mmWave and sub-THz 6G Applications

Host: North Carolina State University, USA

Grant: 14 000 €

Peize Zhang

University of Oulu, Finland

Topic: Hardware Impairments-Aware Radio Channel Characterization and Modeling for 6G THz Communications

Host: Lund University, Sweden

Grant: 11 800 €

Jorma Ollila Grants 2022

Suyog Halasinamara Chandramouli

Aalto University, Finland

Topic: A Bayesian Data Prior Approach, BI* for Interactive and Human-Centered Data Science

Host: Indiana University, Bloomington, USA

Grant: 23 300 €

Anil Kanduri

University of Turku, Finland

Topic: Cognitive Intelligence for Resilience in Multi-Modal AI-Based eHealth Systems

Host: University of California, Irvine, USA

Grant: 21 000 €

Pieta Anastasia Koivikko

Tampere University, Finland

Topic: High-Speed Optical Strain Sensor Network for Traumatic Brain Injury Mapping

Host: Cornell University, USA

Grant: 23 000 €

Nhan Nguyen

University of Oulu, Finland

Topic: Deep Unfolding Solutions to Energy-Efficient Transceiver Designs in 6G Wideband THz Systems Digital Healthcare Services

Host: University of California, Irvine, USA

Grant: 12 000 €

Ville Vakkuri

University of Vaasa, Finland

Topic: Simple Tools for Complex Issues, Approaching AI Ethics Issues Through Education

Host: University of Copenhagen, Denmark

Grant: 24 000 €

Jorma Ollila Grants 2021

Mohammad-Hashem Haghbayan

University of Turku, Finland

Topic: Runtime Resource Management in Distributed Cyber-physical Systems

Host: DEIB Politecnico di Milano, Italy

Grant: 18 500 €

Mika Hämäläinen

University of Helsinki, Finland

Topic: Collaboration on Computationally Creative AI in Dialog Systems

Host: École normale supérieure Paris, France

Grant: 11 500 €

Maria Kim

Aalto University, Finland

Topic: Development of all-2D Material Inkjet-printed Multi-sensors Platform

Host: IEMN University of Lille, France

Grant: 20 000 €

Tanesh Kumar

University of Oulu, Finland

Topic: Distributed, Trustworthy and Privacy-preserving Three-tier Edge AI Security Framework for Digital Healthcare Services

Host: Delft University of Technology, Netherlands

Grant: 11 500 €

Juuli Lumivalo

University of Jyväskylä, Finland

Topic: Co-creating Sustainability Value Using Green Information Systems (IS)

Host: University of Hamburg, Germany

Grant: 11 500 €

Pawani Porambage

University of Oulu, Finland

Topic: SANSMiN: Securing Automated Network and Service Management in Next Generation Networks

Host: University College of Dublin, Ireland

Grant: 19 200 €

MohammadJavad Salehi

University of Oulu, Finland

Topic: Collaborative Research on Coded Caching Benefits for Extended Reality (XR) Applications

Host: University of Minnesota, USA and University of Utah, USA

Grant: 15 410 €

Xuchen Wang

Aalto University, Finland

Topic: Space-Time Metasurfaces for 6G Wireless Communications

Host: University of Pennsylvania, USA

Grant: 18 240 €

Hesam Zolfaghari

Tampere University, Finland

Topic: Designing Flexible Terabit-Speed Switching and Routing Hardware

Host: Paderborn University, Germany

Grant: 17 250 €

Jorma Ollila Grants 2020

Rosa Emilia González Hautamäki

University of Eastern Finland, Finland

Topic: Characterization of Intra-speaker Variability for Speaker Verification Technology

Host: National University of Singapore, Singapore

Grant: 20 000 €

Mohammad-Hashem Haghbayan

University of Turku, Finland

Topic: Runtime Resource Management in Distributed Cyber-physical Systems

Host: Politecnico di Milano, Italy

Grant: 20 000 €

XiaoLi Liu

University of Helsinki, Finland

Topic: Transmission Risk Estimation and Avoidance Algorithms for Mitigating Epidemics

Host: Hong Kong University of Science and Technology, Hong Kong

Grant: 15 000 €

Vikas Verma

Aalto University, Finland

Topic: Self-supervised Learning methods for Deep Neural Networks

Host: Quebec Artificial Intelligence Institute, Montreal, Canada

Grant: 20 000 €

Jorma Ollila Grants 2019

Dristy Parveg

VTT Technical Research Centre of Finland, Finland

Topic: Millimeter-wave Integrated Radiometric Receivers

Host: NASA Jet Propulsion Laboratory (JPL), USA

Grant: 10 000 €

Jorma Ollila Grants 2018

Ijaz Ahmad

University of Oulu, Finland

Topic: Visiting researcher in Auckland University, Department of Computer Science to Explore and Implement AI in Wireless Networks

Host: University of Auckland, New Zealand

Grant: 10 000 €

Viktar Asadchy

Aalto University, Finland

Topic: Novel Solutions Based on Artificial

Electromagnetic Surfaces for Modern Telecommunication Systems

Host: Australian National University, Australia and École Polytechnique Fédérale de Lausanne, Switzerland

Grant: 18 300 €

Huber Flores

University of Helsinki, Finland

Topic: MULTISENSE: Opportunistic Device to Device Communications for Mobile Sensing

Host: The Hong Kong University of Science and Technology, Hong Kong

Grant: 12 000 €

Ella Peltonen

University of Oulu, Finland

Topic: Energy-aware Recommendation System for Mobile Devices

Host: University College Cork, Ireland and University of Melbourne, Australia

Grant: 20 309 €

Jorma Ollila Grants 2017

Zheng Chang

University of Jyväskylä, Finland

Topic: Smart Backhauling: Break the Shackles of 5G Small Cells

Host: University of Notre Dame, USA

Grant: 20 309 €

Xiaohua Huang

Center for Machine Vision and Signal Analysis, University of Oulu, Finland

Topic: Deep Learning for Analyzing the Affective State of People with Applications to Artificial Intelligence and Mobility

Host: University of Cambridge, UK

Grant: 32 916 €

Irina Nefedova

Aalto University Department of Electronics and Nanoengineering, Finland

Topic: Colloidal Materials-based Energy-efficient Nanoelectronic Devices

Host: University of Hamburg, Germany

Grant: 20 309 €

Vasilii Semkin

Tampere University of Technology, Finland

Topic: Radio Wave Propagation Studies and Dynamically Adaptive Antennas for Millimeter-wave Applications of 5G and Beyond

Host: New York University, USA (2018), University of Bologna, Italy (2019), and National University of Singapore, Singapore (2020)

Grant: 32 000 €

Jorma Ollila Grants 2016

Adnan Ashraf

Åbo Akademi University, Finland

Topic: Towards IT as a Service: A Novel Approach and Algorithms for Software-Defined Cloud Computing

Host: Umeå University, Sweden

Grant: 20 071 €

Olga Galinina

Tampere University of Technology, Finland

Topic: Research visit to Wireless Networking and Communications Group

Host: University of Texas at Austin, USA

Grant: 29 000 €

Xiang Su

University of Oulu, Finland

Topic: Lightweight Stream Reasoning for Internet of Things Data

Host: Technische Universität München, Germany

Grant: 15 000 €

Jorma Ollila Grants 2015

Antti Kaskela

Aalto University School of Science, Finland

Topic: Controlled Doped Single-walled Carbon Nanotube Gas Sensors

Host: University of Vienna, Austria

Grant: 59 187 € for the years 2016-2018

Eemil Lagerspetz

University of Helsinki, Finland

Topic: Mind The Gap: Combining Trajectory Datasets for a Holistic Picture of Human Mobility

Host: Hong Kong University of Science and Technology, Hong Kong

Grant: 19 729 € for the years 2016-2017

Olli-Pentti Saira

Aalto University, Low temperature laboratory, Finland

Topic: Fabrication and Measurement of a Calorimeter Based on a Silicon NEMS Absorber and a Sm-S (semiconductor-superconductor) Schottky Barrier Thermometer

Host: California Institute of Technology, USA

Grant: 59 187 € for the years 2016-2019

Jorma Ollila Grants 2014

Sergey Andreev

Tampere University of Technology, Finland

Topic: Performance Limits of Network-Assisted D2D Connectivity: Empowering 5G-grade IoT Solutions

Host: University of Manitobe (UM), Winnipeg, Canada

Grant: 28 500 € for the years 2015-2017

Pyry Kivisaari

Aalto University, Department of Biomedical Engineering and Computational Science

Topic: Diffusion-driven Near-surface Nanophotonic Devices for Efficient Energy Conversion

Host: Lund University, Sweden

Grant: 59 187 € for the years 2015-2017

Mikko Kytö

Aalto University School of Science, Finland

Topic: Augmented Reality: An Interface for Internet of Things

Host: The Human Interface Technology Laboratory New Zealand (HIT Lab NZ), University of Canterbury, New Zealand and Department of Computer Science and Engineering (CSE), Mississippi State University, USA

Grant: 59 187 € for the years 2015-2017

Lu Wei

University of Helsinki, Finland

Topic: Wireless Communication Inspired Random Matrix Theory in the Big Data Era

Host: Harvard University, USA, Technical University of Berlin, Germany and Purdue University, USA

Grant: 48 200 € for the years 2015-2017

Tutkijat maailmalle

Tutkijat maailmalle program provides grants for research in technology and economics for research visits abroad. The program is currently supported by four foundations – KAUTE Foundation, Walter Ahlstöm Foundation, Foundation for Economic Education and Nokia Foundation. Total funding available for grants in the program during the past years has been 450 000 euros. The purpose of the program is to support ambitious technology or economics researchers to conduct research at a high-level foreign university or research institute.

Nokia Foundation joined the Tutkijat maailmalle program in 2023 and has since then granted 6 scholarships as part of the program. The funds for the Tutkijat maailmalle grants that are awarded by Nokia Foundation are provided from the Jorma Ollila fund.

Tutkijat maailmalle 2025

Heidi Hietala

University of Oulu, Finland

Topic: Cognitive Biases in Software Engineering Decision-Making: Debiasing through Reconception

Host: University of Sydney, Australia

Grant: 41 350 €

Risto Ojala

Aalto University, Finland

Topic: Robust Traversable Area Analysis for Mobile Robots

Host: Simon Fraser University, Canada

Grant: 36 040 €

Tutkijat maailmalle 2024

Joel Lamberg

Aalto University, Finland

Topic: Dispersion-Engineered Metasurfaces for Infrared Applications

Host: NASA Jet Propulsion Laboratory, California, USA

Grant: 50 000 € for two years visit

Tutkijat maailmalle 2023

Riku Ala-Laurinaho

Aalto University, Finland

Topic: Trust, Openness and IPR Protection in Digital Twin Web

Host: Monash University, Australia

Grant: 20 000 €

Onel Luis Alcaraz López

University of Oulu, Finland

Topic: End-to-End Optimization of RF Wireless Power Transfer Systems

Host: Rice University, USA

Grant: 20 000 €

Anil Kanduri

University of Turku, Finland

Topic: Hybrid Attention for Efficient Multi-modal Machine Learning Inference

Host: University of California Irvine, USA

Grant: 20 000 €

Nokia Visiting Professor

Nokia Visiting Professors grants are awarded to distinguished foreign professors to work in Finland, or to Finnish professors working at respected foreign universities in the field of Information and Communications Technologies (ICT). The grant program has been active since 2008 and during this time a total of 71 Nokia Visiting Professor grants have been awarded.

Nokia Visiting Professor 2025

Philipp del Hougne

CNRS, IETR - Université de Rennes, France

Topic: Compactly Stacked Non-Reciprocal Intelligent Metasurfaces for Wave-Domain Computing in 6G Wireless Communications

Host: Aalto University

Grant: 18 740 €

Minna Isomursu

University of Oulu, Finland

Topic: Digital Care Pathways for Brain Health

Host: Trinity College Dublin, Ireland

Grant: 10 000 €

Nokia Visiting Professor 2024

Vimal Bhatia

Indian Institute of Technology Indore, India

Topic: Intelligent Reflecting Surfaces Enabled Integrated Sensing and Communications for Future Wireless Communication Systems

Host: University of Oulu, Finland

Grant: 10 000 €

Nokia Visiting Professor 2023

Humeyra Caglayan

Tampere University, Finland

Topic: Integrated Meta-optics for Photonic Neural Networks

Host: Eindhoven University of Technology, Netherlands

Grant: 21 000 €

Christian Flindt

Aalto University, Finland

Topic: Quantum Science and Engineering for Future Information and Communications Technologies

Host: RIKEN (Institute of Physical and Chemical Research), Japan

Grant: 15 000 €

Atanas Gotchev

Tampere University, Finland

Topic: Computational Light Transport

Host: University of Utah, USA

Grant: 20 000 €

Kaisa Väänänen

Tampere University, Finland

Topic: Human-Centered Artificial Intelligence for Social and Environmental Sustainability

Host: Queensland University of Technology, Australia

Grant: 7 500 €

Nokia Visiting Professor 2022

Daniel da Costa

Technology Innovation Institute, United Arab Emirates

Topic: Intelligent Reflecting Surfaces and Advanced Multiple Access Technologies: Enhancing Spectral and Energy Efficiency of Future Multi-Antenna Wireless Communication Systems

Host: LUT University, Finland

Grant: 10 000 €

Salama Ikki

Lakehead University, Canada

Topic: Spatial and Temporal Prediction of Wireless Communication Channels for 5G Communication Systems

Host: Aalto University, Finland

Grant: 16 200 €

Visa Koivunen

Aalto University, Finland

Topic: Multiagent Learning, Statistical Inference and Adaptation in Distributed Multifunction Sensor Systems

Host: Ecole Polytechnique Fédérale de Lausanne, Switzerland

Grant: 12 000 €

George Moustakides

University of Patras, Greece

Topic: Sequential and Distributed Learning and Inference in Large-Scale Sensor Networks

Host: Aalto University, Finland

Grant: 11 000 €

Prabhat Kumar Upadhyay

Indian Institute of Technology Indore, India

Topic: Hybrid Satellite-Aerial-Terrestrial Networks for Future Generation Communication Capabilities (HySATeN)

Host: University of Oulu, Finland

Grant: 6 000 €

Nokia Visiting Professor 2021

Enrique Miranda

Universitat Autónoma de Barcelona, Spain

Topic: Memristive Devices for Neuromorphic Computing

Host: University of Turku, Finland

Grant: 10 000 €

Nokia Visiting Professor 2020

Tony Quek

Singapore University of Technology and Design, Singapore

Topic: Massive, Ultra-Reliable, and Low-Latency Wireless Communications

Host: Aalto University, Finland

Grant: 15 000 €

Nokia Visiting Professor 2019

Mehdi Bennis

University of Oulu, Finland

Topic: Wireless Network Intelligence at the Edge

Host: Princeton University, USA

Grant: 6 000 €

Djamal Benslimane

Claude Bernard Lyon 1 University, France

Topic: PROSERV Project - Flexible Querying of Uncertain Web Services

Host: University of Oulu, Finland

Grant: 8 000 €

Marco Di Renzo

CNRS, Université Paris-Saclay, France

Topic: Wireless Networks Empowered by Reconfigurable Intelligent Meta-Surfaces (RIMSs): Theoretical Foundation Based on Electromagnetism and Physics

Host: Aalto University, Finland

Grant: 8 000 €

Ying-Chang Liang

University of Electronic Science & Technology of China, China

Topic: Ambient Backscatter Communications for Ultra-low Power IoT

Host: Aalto University, Finland

Grant: 15 000 €

Mostafa Ammar

Georgia Institute of Technology, USA

Topic: Symbiosis in the Internet of Things

Host: University of Helsinki, Finland

Grant: 9 500 €

Centennial: Yusuke Koda

Kyoto University, Japan

Topic: Camera-assisted Framework for Reliable, Decentralized, and Ultra-Dense Millimeter Wave Networks

Host: Oulu University, Finland

Grant: 6 000 €

Nokia Visiting Professor 2018

Yang Chen

Fudan University, China

Topic: User Mobility Analytics for Resource Allocation in Mobile Edge

Host: Aalto University, Finland

Grant: 8 000 €

Daniel da Costa

Federal University of Ceara, Brazil

Topic: Energy Efficient Communication Strategies in IoT networks

Host: Lappeenranta University of Technology, Finland

Grant: 10 000 €

Jussi Ryynänen

Department of Electronics and Nanoengineering, Aalto University, Finland

Topic: Integrated Wideband Local Oscillator and Clock Circuits for Future 5G and 6G Digital and Mixed Mode Transceivers

Host: Lund University, Sweden

Grant: 7 500 €

Chintha Tellambura

University of Alberta, Canada

Topic: Spectrum Sensing for Cognitive Wireless Internet of Things

Host: Center for Wireless Communications, University of Oulu, Finland

Grant: 6 000 €

My Thai

University of Florida, USA

Topic: Security and Efficiency in Complex Networked Systems: When Social Meets Adaptivity

Host: University of Jyväskylä, Finland

Grant: 8 700 €

Antti Tölli

University of Oulu, Centre for Wireless Communications, Finland

Topic: Multidimensional Signal Processing for Heterogeneous mmWave Access

Host: University of California, Santa Barbara, USA

Grant: 10 000 €

Centennial: Mahmoud Albreem

A'Sharqiyah University (ASU), Oman

Topic: Detection Techniques for Massive MIMO Systems

Host: University of Oulu, Finland

Grant: 10 000 €

Centennial: Alejandro Cabrera Aldaya

Technological University of Havana (CUJAE), Cuba

Topic: Security Analysis of Modern Cryptographic Libraries Regarding Microarchitectural Side-Channel Attacks

Host: Tampere University of Technology, Finland

Grant: 10 000 €

Centennial: Gilsoo Lee

Virginia Polytechnic Institute and State University, USA

Topic: Online Framework for Low-Latency UAV-assisted Distributed Fog Computing in Smart Factories

Host: University of Oulu, Finland

Grant: 10 000 €

Nokia Visiting Professor 2017

Roman Bednarik

University of Eastern Finland, Finland

Topic: New Interactive Technologies and Tracking in Surgical ORs - VR, Gaze Tracking, and Remote Video

Host: University of Alberta, Edmonton, Canada

Grant: 10 000 €

Babak Hossein Khalaj

Sharif University of Technology, Iran

Topic: Tradeoffs Between Computation and Communication in Virtual Platforms in MEC and Fog Computing

Host: University of Oulu, Finland

Grant: 5 500 €

Harri Lipsanen

Aalto University, Finland

Topic: Emerging Nanophotonics and Electronics Applications of New Nanomaterials

Host: The University of Arizona, USA

Grant: 8 000 €

Premanandana Rajatheva

University of Oulu, Finland

Topic: UAV Networks-on-the-fly for Ubiquitous Sensing and Communication

Host: University of Manitoba, Canada

Grant: 6 000 €

Maria Uther

University of Winchester, UK

Topic: Sound Principles for Using Sound in Learning Apps on Mobile Devices

Host: Cicero Learning based at University of Helsinki, Finland

Grant: 5 452 €

Nokia Visiting Professor 2016

Mehdi Bennis

University of Oulu, Finland

Topic: Wireless Proactive Caching At the Network Edge

Host: Princeton University, USA

Grant: 6 000 €

Giacomo Boracchi

Politecnico di Milano, Italy

Topic: Foveated Image Features

Host: Tampere University of Technology, Finland

Grant: 6 000 €

Jyrki Nummenmaa

University of Tampere, Finland

Topic: Language Technology and Functional Programming Applied to Data Management and Analysis for Big Data

Host: Chalmers and Gothenburg University, Sweden

Grant: 6 000 €

Hitoshi Ohsato

Nagoya Industrial Science Research Institute, Japan

Topic: Millimeter-wave Dielectrics of Cordierite/indialite Glass Ceramics Applied to LTCC

Host: University of Oulu, Finland

Grant: 8 000 €

Olav Tirkkonen

Aalto University, Finland

Topic: Technologies for 5G Cellular Networks

Host: Cornell University, Ithaca, New York, USA

Grant: 8 000 €

Guoying Zhao

University of Oulu, Finland

Topic: Micro-Gesture Analysis

Host: Rutgers, The State University of New Jersey, USA

Grant: 9 000 €

Nokia Visiting Professor 2015

Abdenour Hadid

University of Oulu, Finland

Topic: Analyzing Human Facial Dynamics and Behaviors in 4D

Host: Northwestern Polytechnic University, Xi'an, China

Grant: 5 000 €

Roope Raisamo

University of Tampere, Finland

Topic: Humans Acting with Autonomous Systems

Host: Stanford University, USA

Grant: 8 000 €

Sabato Marco Siniscalchi

Kore University of Enna, Italy

Topic: Characterization of Spoken Languages Using Language-Universal Speech Attributes with Applications to Automatic Accent Recognition

Host: University of Eastern Finland, Finland

Grant: 6 000 €

Zhipei Sun

Aalto University, Finland

Topic: Graphene Based Quantum Information Technologies

Host: Cambridge University, UK and Northwestern University, USA

Grant: 10 000 €

Evimaria Terzi

Boston University, USA

Topic: Inferring Social Networks and Abilities of Experts & Textbook on Algorithmic Data Analysis

Host: Aalto University, Finland

Grant: 7 000 €

Nokia Visiting Professor 2014

Ville Hautamäki

University of Eastern Finland, Finland

Topic: Accurate Speaker Recognition from Extremely Short Test Utterances

Host: Georgia Institute of Technology, USA

Grant: 7 000 €

Lauri Savioja

Aalto University, Finland

Topic: Computationally Efficient and Perceptually Accurate Room Acoustic Modeling

Host: Center for Computer Research in Music and Acoustics (CCRMA), Stanford University, USA

Grant: 8 000 €

Nokia Visiting Professor 2013

Sergey Balandin

Open Innovations Association FRUCT, Finland

Topic: Development of Smart Room Laboratory and Demo Space

Host: Petrozavodsk State University, Republic of Karelia, Russia

Grant: 6 000 €

Brian Barsky

University of California, Berkeley, USA

Topic: Computational Ophthalmology Approaches to Retinal Imaging

Host: Lappeenranta University of Technology, Finland

Grant: 8 000 €

Gérard Chollet

CNRS LTCI, Télécom-ParisTech, France

Topic: Audio-Visual Imposture in Identity Verification

Host: University of Eastern Finland, Finland

Grant: 6 000 €

Igor Filanovsky

University of Alberta at Edmonton, Canada

Topic: Critical Blocks of Mobile RF Transmitters: High-Speed DC/DC Converters for RF Power Amplifiers

Host: Tampere University of Technology, Finland

Grant: 7 000 €

Abdenour Hadid

University of Oulu, Finland

Topic: Establishing Collaboration in Computer Vision and Biometrics with Leading US Universities

Host: Michigan State University, USA

Grant: 7 000 €

Visa Koivunen

Aalto University, Finland

Topic: Research on Joint Optimization of Identifying and Accessing Idle Spectrum, Interference Modeling and Management, and Optimized Networked Sensor System

Host: Princeton University, Department of Electrical Engineering, USA

Grant: 6 000 €

Gary Madden

Curtin University, Australia

Topic: Hedonic Price Model Estimation Using Dynamic Panel Models

Host: Aalto University, Finland

Grant: 8 000 €

Abbas Mohammadi

Amirkabir University, Iran

Topic: Adaptive and Energy Efficient Transceivers for Future Intelligent Radio Networks

Host: Tampere University of Technology, Finland

Grant: 7 000 €

Sasu Tarkoma

University of Helsinki, Finland

Topic: Smartphone Energy Efficiency

Host: Cambridge University, Computer Laboratory, UK

Grant: 7 000 €

Nokia Visiting Professor 2012

Sergey Balandin

Topic: Design of Cross-Platform Services in Smart Spaces and IoT

Host: Petrozavodsk State University, Russia

Grant: 6 000 €

Jussi Kangasharju

Topic: In-network Caching

Host: Seoul National University, Korea and International Computer

Science Institute, Berkeley, USA

Grant: 8 000 €

Susanto Rahardja

Topic: High Dynamic Range Imaging

Host: University of Eastern Finland, Finland

Grant: 8 000 €

Nokia Visiting Professor 2011

Gil David

Topic: Analysis of Massive High-dimensional Datasets

Host: University of Jyväskylä, Department of Mathematical Information Technology, Finland

Grant: 8 000 €

Moncef Gabbouj

Topic: Establishing Collaboration in Advanced Signal Processing Methods for Audio and Visual Media Analysis, Processing Communication and Retrieval with Major US Universities

Host: Purdue University and University of Southern California, USA

Grant: 8 000 €

Abdenour Hadid

Topic: Face Biometrics under Spoofing Attacks in the Context of Mobile Environments

Host: University of California Santa Barbara, USA

Grant: 7 000 €

Jari Multisilta

Topic: Applications of Emerging Technologies for Mobile Video

Host: Stanford University, H-STAR Institute, USA

Grant: 15 000 €

Frans Ilkka Olavi Mäyrä

Topic: Assessing the Experience of Play

Host: University of Waikato, New Zealand

Grant: 7 000 €

Nokia Visiting Professor 2010

Keith Devlin

Host: Visiting Several Universities and Industry

Grant: 10 000 €

Jiuyong Li

Host: University of Helsinki, Finland

Grant: 9 700 €

Elena Simona Lohan

Host: University Polytechnica of Bucharest, Romania

Grant: 4 000 €

Nandana Rajatheva

Host: University of Oulu, Finland

Grant: 7 000 €

Kaisa Anneli Väänänen-Vainio-Mattila

Host: Stockholm University, Sweden

Grant: 16 000 €

Nokia Visiting Professor 2008

AmirParviz Babak

University of Washington, USA

Topic: Self-assembled mobile telecommunication devices: from molecular components to systems

Host: Helsinki University of Technology, Finland

Grant: 19 000 €

Li Haizhou

Department Head, Human Language Technology

Topic: Speaker and Language Recognition

Host: University of Joensuu, Department of Computer Science, Finland

Grant: 10 000 €

NOKIA FOUNDATION   Awards, Grants and Scholarships

Nokia Visiting Fellow

The Nokia Visiting Fellow and Visiting Researcher grant programs were active from 1995 to 2007 and during this time a total of 57 grants were awarded.

Nokia Visiting Fellow 2007

Baskin Lev

Topic: Modeling and Design of Electronic Devices in Nano-scale

Grant: 10 000 €

Hadid Abdenour

Topic: Face Detection and Authentication in Mobile Phones

Grant: 4 000 €

Koskinen Tomi Veikko Mikael

Topic: Kehittynyt antennisuunnittelu: metamateriaalimallinnus FDTD-simulaatioissa ja vaiheeton lähikenttämittaus

Grant: 6 000 €

Lehtomäki Janne Jooseppi

Topic: Sensing and Direct Communication in a Centralized Network

Grant: 5 000 €

Penttinen Henri Markku

Topic: Mobiiliorkesteri

Grant: 5 000 €

Riva Claudio

Topic: Mobile REST

Grant: 8 000 €

Nokia Visiting Fellow 2006

Oscar H. Ibarra

University of California, USA

Host: University of Turku, Finland

Topic: Automata and New Models of Computing with Applications

Grant: 12 000 €

Igor Nefedov

Helsinki University of Technology, Finland

Topic: Miniaturization of Mobile Multi-antenna Terminals Using Carbon Nanotubes

Grant: 9 000 €

Varadharajan Sridhar

Management Development Institute, India

Host: Helsinki University of Technology, Finland

Topic: Analyzing the Future Growth of Mobile Communication Services in Developing Countries such as India: Lessons from Finland

Grant: 6 000 €

Mohammed Elmusrati

Topic: Optimum Radio Resource Management in Bad Channel Conditions

Host: Royal Institute of Technology, Sweden

Grant: 5 000 €

Tao Hu

Topic: LTCC Modules with Novel Integrate Technique for MEMS

Host: Rutgers University, USA

Grant: 5 000 €

Jagdish Patra

Topic: Älykkäiden anturien ohjaaminen

Grant: 3 680 €

Pekka Juhani Jäppinen

Topic: Yksityisyyden suoja ja tietoturva tulevaisuuden langattomissa läsnäpalveluissa.

Host: Josef Stefan Institute, Slovenia

Grant: 5 000 €

Antti Olavi Oulasvirta

Topic: Inferences of Others Through Social Software: Field Trials and Theory Development

Host: University of California, Berkeley, USA

Grant: 5 000 €

Nokia Visiting Fellows and Researchers 2005

Päivi Kristiina Jokinen

Topic: Tracking in Multiparty Conversations

Host: University of Stanford, USA

Grant: 10 000 €

Thomas Sebastian Mailadil

Topic: Materials and Devices for Wireless Communication

Host: University of Oulu, Finland

Grant: 6 000 €

Aaltonen Titta Katriina

Topic: Atomic layer deposition (ALD) of thin films for IC applications

Host: Harward University, USA

Grant: 6 000 €

Hadid Abdenour

Topic: Face Recognition From Video Using Local Binary Patterns

Host: Chinese Academy of Science, China

Grant: 4 000 €

Hooli Kari Juhani

Topic: Spektrin joustava käyttö

Host: University of Surrey, UK

Grant: 4 000 €

Katara Mika Esaias

Topic: Model-Driven Testing: Tools and Applications (MODENA)

Host: IBM Haifa Research Laboratory, Israel

Grant: 4 000 €

Koskela Juha Markus

Topic: Novel methods for semantic processing of visual and multimodal data in large databases

Host: Dublin City University, Ireland

Grant: 6 000 €

Kämäräinen Joni Kristian

Topic: 3-ulotteinen kasvojentunnistus biometrisessa autentikoinnissa

Host: University of Surrey, UK

Grant: 5 000 €

Selonen Aki Petri

Topic: Tools for modeling aspects in software engineering

Host: University of British Columbia, Canada

Grant: 6 000 €

Visiting Fellows and Researchers 2002

Fawzi Daoud

Topic: Models/Strategies Analysis for Future Mobile Operators

Host: Teknillinen korkeakoulu / Heikki Hämmäinen

Anthony Joseph

Topic:Griffin: A Predictive, Adaptive Environment for Mobile Applications

Host: HIIT / Kimmo Raatikainen

Navin Kumar M. Sihngi

Topic: Algebraic Discrete Mathematics, Codes and Data Compression

Host: Tampereen teknillinen yliopisto / Foldes Stephan

Xiaolin Wu

Topic: Multi-resolution coding of digital media contents for wireless communications

Host: Joensuun yliopisto / Fränti Pasi

Mihai Enescu

Topic: Advanced Transceiver Algorithms for Mobile Broadband Wireless Access Systems

Host: Institute of communications and RadioFrequency Engineering Technische Universität Wien

Konsta Petteri Koppinen

Topic: Automatic Generation of Features for Speech Recognition Using Evolutionary Computation

Host: University of California, Berkeley, USA

Krisztián József Kordás

Topic: RF and microwave MEMS accomplished by high-resolution mask-less methods

Host: University of Arkansas, USA

Salonen Pekka Olavi

Topic: Kangasantennien kehittäminen älyvaatteisiin

Host: University of California, USA

Panayiotis Tsaparas

Topic: Information retrieval in peer-to-peer networks

Host: HIIT / Aristides Gionis & Heikki Mannila

Visiting Fellows and Researchers 2002

David Rutledge

Topic: Visiting Professor at HUT Radio Laboratory in 2003

Host: Teknillinen korkeakoulu / Antti Räisänen

Tadashi Matsumoto

Topic: New Technology Creation and Accurate Performance Evaluation in Real Fields

Host: Oulun yliopisto, CWC

Leon Chua

Topic: Nonlinear Information Processing via Nonlinear Dynamics and Bifurcation Theory

Host: Teknillinen korkeakoulu

Mikko Kurimo

Topic: The Challenges of Speech Recognition in Starting Large-scale Speech and Language Technology Research Projects

Richard Nock

Topic: Algorithmic Machine Learning and Image Understanding

Samuli Visuri

Topic: Statistical Signal Processing for MIMO Systems

Visiting Fellows and Researchers 2001

M.L. Rodriques de Campos

Topic: Tilastollisen signaalinkäsittelyn tutkimus ja tutkijankoulutusyhteistyön luominen

Host: Oulun Yliopisto / Markku Juntti

Edward J. Delp

Topic: Media Streaming

Host: Tampereen teknillinen korkeakoulu / Jaakko Astola

Scott MacKenzie & Stephen Brewster

Topic: Interface and interaction techniques for advanced computing

Host: Tampereen Yliopisto / Kari-Jouko Räihä

Simovski C. R.

Topic: Antennas utilizing new engineered and electrically controlled materials

Host: Teknillinen korkeakoulu / Sergei Tretyakov

Harri Oinas-Kukkonen

Topic: Mobile Hypermedia and Collective IQ

Host: Stanford University

Visiting Fellows and Researchers 2000

Bhattacharya Mrinmoy

Topic: Monimuotoinen signaalinkäsittely

Host: Tampereen teknillinen korkeakoulu / Jaako Astola

Valeri Labunets

Topic: Monimuotoinen signaalinkäsittely

Host: Tampereen teknillinen korkeakoulu / Jaakko Astola

Radomir Stankovic

Topic: Monimuotoinen signaalinkäsittely

Host: Tampereen teknillinen korkeakoulu / Jaakko Astola

Obaidat Mohammad

Topic: 3 kk:n vierailu TTKK:lle

Host: Tampereen teknillinen korkeakoulu / Jarmo Harju

Ali Baghai-Wadji

Topic: Professori Ali Baghai-Wadjin Suomen vierailun jatkoaika

Teknillinen korkeakoulu / Martti Salomaa

Nokia Visiting Fellow 1998

Hashimoto Ken-Ya

Topic: Introduction to SAW Acoustic Wawe Devices: Simulation Technologies for SAW Devices

Host: Teknillinen korkeakoulu / Martti Salomaa

Charles Boncelet

Topic: Vierailu Tampereen Kansainväl. Signaalinkäsittelykeskus

Host: Tampereen teknillinen korkeakoulu / Jaakko Astola

Kaveh Pahlavan

Topic: Wideband Wireless Local Access

Host: Oulun yliopisto

Nokia Visiting Fellow 1997

Irina Vendik

Topic: Korkean lämpötilan suprajohteisiin perustuvien mikroaaltokomponenttien CAD-suunnittelu

Host: Oulun yliopisto / Seppo Leppävuori

Jorma Rissanen

Topic: Information Theoretical Approach for Low Bit Rate Coding

Host: Tampereen teknillinen korkeakoulu / Jukka Saarinen

Nokia Visiting Fellow 1996

C. Pomalaza-Ráez

Topic: Wireless Communication

Host: Oulun yliopisto, CWC / Talvitie

Jorma Rissanen

Topic: Low Bit Rate Speech and Audio Coding

Host: Tampereen teknillinen korkeakoulu / Jukka Saarinen

Ismail Mohammed

Analog and RF Circuit Design

Teknillinen korkeakoulu, IRC / Veikko Porra

Nokia Visiting Fellow 1995

David Farberg

Topic: Hajautetut telekommunikaatiopalvelut

Host: Teknillinen korkeakoulu / Olli Martikainen

Nokia Educational Award

The Nokia Educational Award focused on supporting the creation of educational materials such as textbooks and lecture materials. The program was active for 5 years from 2000 to 2004 and in total 53 grants were awarded in the program.

Nokia Educational Award 2004

Valeri Pavlovich Ipatov

Topic: Textbook "Spread Spectrum and CDMA: Principles and Applications"

Grant: 2 500 €

Jouni Antero Isoaho

Topic: Development of Lecture Material for Advanced Interconnect Centric Design of Single Chip Systems

Grant: 1 500 €

Axel Jantsch

Topic: Development of Lecture Material for Advanced Interconnect Centric Design of Single Chip Systems

Grant: 1 500 €

Ilkka Markus Kokkarinen

Topic: The book "Java, Prolog ja Python"

Grant: 2 000 €

Kai Koskimies

Topic: Ohjelmistoarkkiteh-tuurioppikirjan viimeistely

Grant: 1 500 €

Tommi Mikkonen

Topic: Ohjelmistoarkkiteh-tuurioppikirjan viimeistely

Grant: 1 500 €

Jari Nurmi

Topic: Development of Lecture Material for Advanced Interconnect Centric Design of Single Chip Systems

Grant: 1 500 €

Hanne Tenhunen

Topic: Development of Lecture Material for Advanced Interconnect Centric Design of Single Chip Systems

Grant: 1 500 €

Nokia Educational Award 2003

Isto Johannes Aho

Topic: Algoritmimatematiikan oppikirja

Grant: 1 500 €

Jukka Lempiäinen

Topic: UMTS radio network planning, optimization

and QoS management -oppikirja

Grant: 2 000 €

Artur Roland Lugmayr

Topic: Textbook Preparation: Metadata in Digital Television

Grant: 2 000 €

Matti Olavi Manninen

Topic: UMTS Radio Network Planning, Optimization and QoS Management -oppikirja

Grant: 2 000 €

Tommi Mikkonen

Topic: Mobiiliohjelmointioppikirjan viimeistely

Grant: 4 000 €

Erkki Juhani Mäkinen

Topic: Algoritmimatematiikan oppikirja

Grant: 1 500 €

Samuli Tapani Niiranen

Topic: Text Book Preparation: Metadata in Digital Television

Grant: 2 000 €

Timo Taneli Poranen

Topic: Algoritmimatematiikan oppikirja

Grant: 1 500 €

Martti Mikael Salomaa

Topic: Oppikirja: Quantum Computing - From Linear Algebra to Physical Realizations

Grant: 3 000 €

Seppo Matias Sisättö

Topic: eEverything - The Media Convergence

Grant: 4 000 €

Nick Vladimir Zacharov

Topic: Book Writing Entitled: The Perceptual Audio Evaluation Primer

Grant: 3 000 €

Nokia Educational Award 2002

Harri Eskelinen

Topic: Oppikirja: Microwave Component Mechanics

Grant: 2 500 €

Pekka Eskelinen

Topic: Oppikirja: Microwave Component Mechanics

Grant: 2 500 €

Pentti Inkinen

Topic: Fysiikan oppimateriaalin laatiminenammattikorkeakoulujen insinöörikoulutukseen

Grant: 2 000 €

Juha Kontio

Topic: Experiencing Distributed Software Development

Grant: 4 000 €

Merikki Lappi & Esa Lappi

Topic: Ryhmähengen merkitysmatematiikan opetuksessa

Grant: 4 000 €

Arto Lehto

Topic: Fundamentals of Radio Engineering for Wirelesscommunication and Sensor Applications

Grant: 2 500 €

Reijo Manninen

Topic: Fysiikan oppimateriaalin laatiminenammattikorkeakoulujen insinöörikoulutukseen

Grant: 2 000 €

Olli Mertanen

Topic: Harjoitusyritysprojekti

Grant: 4 000 €

Timo Rahkonen

Topic: "Distortion in RF Power Amplifiers" kirjan kirjoittaminen

Grant: 4 000 €

Antti Räisänen

Topic: Fundamentals of Radio Engineering for Wirelesscommunication and Sensor Applications

Grant: 2 500 €

Jukka Tuohi

Topic: Fysiikan oppimateriaalin laatiminenammattikorkeakoulujen insinöörikoulutukseen

Grant: 2 000 €

Jouko Vankka

Topic: Kirjan kirjoittaminen digitaalisistaradiolähettimistä

Grant: 3 000 €

Nokia Educational Award 2001

Nick Zacharov Nick & Soren Bech

Book: The subjective audio evaluation primer

Eero Hyvönen

Ohjelmistoliiketoiminnan perusteos

Aapo Hyvärinen

Kirja: Independent Component Analysis (Aapo Hyvärinen, Juha Karhunen, Erkki Oja)

Jukka Lempiäinen & Matti Manninen

Radio Interface System Planning for GSM/GPRS/UMTS

Ilkka Kokkarinen, Wille Kuutti & Juha Nieminen

Tietokonegrafiikan yliopistotasoinen oppikirja

Ari Hottinen

Multi-antenna Transceiver Techniques for 3G and Beyond

Olav Tirkkonen

Multi-antenna Transceiver Techniques for 3G and Beyond

Risto Wichman

Multi-antenna Transceiver Techniques for 3G and Beyond

Seppo Uusitupa

Teletekniikan oppimateriaalihanke: Tietoliikennebeepisenkirjoittaminen

Nokia Educational Award 2000

Vesa Volotinen

Oppikirja: Tietoliikenne, Televerkot ja päätelaitteet

Heikki Huttunen

Opetusmateriaali: Johdatus signaalinkäsittelyyn

Ilkka Kokkarinen

Tietorakenteet ja algoritmit (kirja algoritmiikan yliopistotasoiseen perusopetukseen)

Kirsti Ala-Mutka

Tietorakenteet ja algoritmit (kirja algoritmiikan yliopistotasoiseen perusopetukseen)

Matti Mikael Rintala

Oppikirja: Olioiden ohjelmointi C++:lla

Jyke Tapani Jokinen

Oppikirja: Olioiden ohjelmointi C++:lla

Timo Haiko

Elektroniikka-simulaattori

Kai Koskimies

Oliokirja

Heikki Koivo

Systems Engineering in Wireless Communications

Helena Ahola

Internet-markkinoinnin oppikirja yliopiston ja ammattikorkeakoulun opiskelijoille

Harri Oinas-Kokkonen

Internet-markkinoinnin oppikirja yliopiston ja ammattikorkeakoulun opiskelijoille

Timo Koivumäki

Internet-markkinoinnin oppikirja yliopiston ja ammattikorkeakoulun opiskelijoille

Risto Koponen

Simuloidusta piirikaaviosta komponenttilevyksi

Team Awards

Team awards were granted during the years 1995 to 1999.
In total 20 Team Awards were granted during this time.

Team Awards 1999

Lounesto Pertti, Puska Perttu & Raja Arvind

Topic: Cliffordin algebraan perustuvan sähkömagnetiikan oppikirjan kirjoittaminen sekä Puskan ja Rajan väitökset

Ollikainen Jani, Kivekäs Outi, Kiesi Kalle & Heiska Riikka

Topic: Tulevaisuuden matkaviestinantennit

Ryynänen Jussi, Jussila Jarkko (vaihe 2), Sumanen Lauri, Kivekäs Kalle, Pärssinen Aarno, Knuuttila Timo & Matero Jorma

Topic: WCDMA suora-muunnosvastaanottimen integrointi

Sari Leppänen & Matti Luukkainen

Topic: SDL -kuvausten kompositionaalinen verifiointi

Team Awards 1998

Jarkko Jussila, Aarno Pärssinen, Jussi Ryynänen, Lauri Sumanen, Timo Knuuttila & Jorma Matero

Topic: WDMA -Suoramuunnosvahvistimen integrointi

Atte Kinnula & Minna Mäkäräinen

Topic: Evaluating the Process – Analysis of Three Methods on the Improvement of the DSP SW Process

Matti Tommiska, Mika Loukola & Tero Koskivirta

Topic: AAL-2 kytkimen FPGA -toteutus

Kimmo Kaski, Jarmo Hietanen, Heikki Turtiainen, Juha Lahdenperä & Altti Torkkeli

Topic: Mikroelektromekaanisten systeemien mallinusyhteistyö

Jan Riska, Pekka Kangaslahti & Petri Nyberg

Topic: Langattomat laajakaistaiset tietoliikennepiirit 60 GHz:n MMIC tekniikalla

Team Awards 1997

Antti Toskala, NRC, Harri Holma, NRC, Anna-Mari Seppänen, CWC & Matti Latva-Aho, CWC

Topic: Advanced W-CDMA Mobile Receivers for UMTS High Bit Rate Services

Tapio Ala-Nissilä, Ismo Koponen, Mikko Kuittu, UoH/HIP, Kaarina Melkas, NRC & Jouni Pääaho, NRC

Topic: Advanced Materials and Structures for Flat Panel Speakers

Esa Kemppinen, NTC, Petri Mikkonen, NTC, Markku Koivisto, NTC, Hans Somerma, NTC, Olli Salmela, NRC, Pertti Ikäläinen, NRC, Kari Kautio, VTT Electronics & Seppo Leppävuori, Oulu University

Topic: Keraamisen multichiptekniikan kehittäminen mikro- ja millimetriaaltoalueelle

Keijo Nikoskinen, Jukka Lempiäinen & Juha Juntunen

Topic: Toistevastaanoton ja antennien tutkiminen mikrosolun radiokanavassa

Mika Loukola, Matti Tommiska & Tero Koskivirta

Topic: Increasing IP over ATM Routing Performance with Reconfigurable Computing

Team Awards 1996

Mika Grundström & Erno Vienonen

Topic: Audiovisuaalisen datan välitys asynkronisessa verkossa

Ari Hottinen, Lasse Holmström, Esa Nummelin & Tiina Heikkinen

Topic: Langattoman tietoliikenneverkon kapasiteetti

Sami-Jukka Kalajo, Jiri Kiraly & Pertti Ikäläinen

Topic: Radiolähettimen integrointi

Thomas Sehms, Arto Lehto, Antti Räisänen, Petri Mikkonen, Mikko Saarikoski, Jarmo Mäkinen & Juhani Pursiheimo

Topic: Millimetrialueen planaarinen linkkiantenni

Jouko Vankka & Mikko Saarikoski

Topic: Suora digitaalinen synteesi radiolinkeissä

Team Awards 1995

Jarkko Vuori & Juha Tervo

Topic: Matalan nopeuden kuva-koodekit, MPEG4

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Topic: Johtavalla liimalla liitettyjen flip chip -komponenttien pitkäaikaisluotettavuus orgaanisilla liitosalustoilla

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Kaveh Ghaboosi

Topic: Medium Access Control in Cognitive Radio and Spectrum Agile Wireless Networks

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Leonardo Goratti

Topic: Medium Access Control Protocol Design for UWB Based Networks: High and Low Rates

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Topic: Power Amplifier Nonlinearities in Multiantenna Systems

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Jussi-Pekka Haapoja

Topic: Medium Access Control Protocols for Wireless Sensor Networks (Langattomien sensoriverkkojen linkkiohjausprotokollat)

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Topic: Teholähteiden karakterisointi

Grant: 5 000 €

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Topic: Elektroniikan sulautettu testaus levy- ja järjestelmätasolla

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Topic: Uusia tekstuuripohjaisia menetelmiä konenäköön

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Topic: Model-Driven Development of Web Services Systems

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Topic: Sääntöpohjaisen puhesynteesin kehittäminen

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Topic: AIKA

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Topic: Small Antenna Arrays for Multiantenna Communications

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Topic: Multidimensional Adaptive Radio Link for Broadband Communication Systems

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Topic: Measurements and Modeling of 60 GHz and UWB Radio Propagation Channels for Short-range Wireless Communications

Grant: 5 000 €

Filip Ginter

Topic: Natural Language Processing of Scientific Publications

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Topic: Amplifier Nonlinearities in Multi-Antenna Mobile Communication Systems

Grant: 5 000 €

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Topic: Medium Access Control Protocols for Wireless Sensor Networks (Langattomien sensoriverkkojen linkki-ohjausprotokollat)

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Topic: Teholähteiden karakterisointi ja nopeiden identifiointimenetelmien kehittäminen

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Topic: Visuaalisia seurantatekniikoita kamerapohjaisiin käyttöliittymiin

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Topic: Rapid Prototyping of 4th Generation Wireless Systems and Algorithms

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Topic: Structured Information Extraction from Scientific Publications: A Knowledge-Rich Machine Learning Approach

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MIMO Communication Systems

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Topic: Root Cause Analysis of TCP Throughput

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Topic: Väitöskirjatyö: Adaptiiviset kuormantasausmenetelmät Internetissä

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Topic: SC/MMSE-turbo-kanavakorjaintekniikoiden suorituskyvyn ja konver-genssin arviointi mitattua kanavadataa käyttäen

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Topic: Millimetriaaltoalueen radiojärjestelmien piirien integrointi

Grant: 5 000 €

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Topic: Feedback Adaption in Web-based Systems

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Topic: OIVA (Oikeellisuuden validointi horisontaaliarkkitehtuurien avulla)

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Titta Katriina Aaltonen

Helsingin yliopisto, Epäorgaanisen kemian laboratorio

Topic: Jalometalliohutkalvojen kasvattaminen atomikerroskasvatus-menetelmällä mikroelektroniikan sovelluksiin

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Hadid Abdenour

University of Oulu, Electrical and Information Engineering Department

Topic: Learning and Recognizing Faces from Image Sequences

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Helsinki University of Technology, Electrical and Communications Engineering Department

Topic: Advanced Receivers for Multicarrier Systems in Wireless Communications

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Topic: Konfiguroitava rinnakkaismuisti multimediasovelluksille

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Topic: Tekstuurimenetelmien kehitys ja soveltaminen luonnollisten kuvien analysointiin

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Turun Yliopisto, Informaatioteknologian laitos

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Tampere University of Technology, Institute of Signal Processing

Topic: Neural Networks for Text-to-Phoneme Mapping

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University of Oulu, Department of Electrical and Information Engineering

Topic: Delta Sigma Modulation in Radio Frequency Synthesis

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Turku Centre for Computer Science (TUCS)

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Grant: 5 000 €

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Institute of Software Systems, Tampere University of Technology

Topic: Managing Multi-dimensional Software Systems: Tools and Applications

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Åbo Akademi University, Institute for Advanced Management Systems Research (IAMSR)

Topic: Understanding User Adoption of Mobile Technology: Focus on Finnish Physicians

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Topic: Visuaalisia seurantatekniikoita kamerapohjaisiin käyttöliittymiin

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Topic: Tila- ja tapahtumapohjaiset mallit ja determinismi prosessialgebrallisessa verifioinnissa

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Topic: Channel Estimation and Synchronization in Space-Time Coded OFDM Systems

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Tampereen teknillinen yliopisto, Tietotekniikan osasto

Topic: Siirtoihin liipaisevan, sulautetuissa järjestelmissä käytettävän prosessori-arkkitehtuurin muistin- ja tehonkulutuksen optimointi

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Topic: Funktionaalinen toteutustekniikka signaa-linkäsittelyalgoritmeille

Grant: 5 000 €

Carlos Herrero

Helsinki University of Technology, Computer Science

Topic: Data Transmission in Digital Television Networks

Grant: 5 000 €

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Turku Centre for Computer Science, Department of Mathematics

Topic: Applications of Crossed Product Algebras in MIMO Space-time Coding

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Topic: Tietokonenäköön ja -kuuloon perustuvat opetukselliset käyttöliittymät

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Tampereen teknillinen yliopisto, Teknis-luonnontieteellinen osasto

Topic: Surface-normal Semiconductor Devices for Optical Clocking

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Topic: Digitaalisten järjestelmäpiirien alustapohjaiset suunnittelumenetelmät

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University of Oulu

Topic: RF Performance and Reliability of Highly Integrated Multichip Module Assemblies for Future Wireless Systems

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University of Joensuu, Department of Computer Science

Topic: Speaker Identification in Mobile Environment

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Topic: Kombinatorisia algoritmeja luokitteluun ja optimointiin

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Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

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Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Alimillimetriaaltoalueen hologrammiin perustuva kompakti antennimittauspaikka

Grant: 5 000 €

Konstantin Stoychev Kostov

Helsinki University of Technology, Department of Electrical and Communications Engineering

Topic: Dynamic Modelling and Analysis of Distributed Power Supply Systems

Grant: 4 000 €

Olga Kouropteva

University of Oulu, Department of Electrical and Information

Topic: Non-linear Dimensionality Reduction in Visualization and Classification of High-Dimensional Data

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Tampere University of Technology, Department of Information Technology

Topic: Network Planning Aspects for 3G/4G Mobile Systems

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Topic: Matkaviestinlaitteiden antennien suorituskyvyn mittausmenetelmien kehittäminen

Grant: 5 000 €

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Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Data-analysis Methods for Mobile Network Quality Monitoring, Fault Diagnosis and Performance Optimization

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Teknillinen korkeakoulu, Teknillisen fysiikan ja matematiikan osasto

Topic: Akustiset pinta-aaltosuodattimet langattoman lähiverkon (5 GHz) taajuuksille

Grant: 5 000 €

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Oulun yliopisto, Luonnontieteellinen tiedekunta, Tietojenkäsittelyopin laitos

Topic: Laatuohjattu arkkitehtuurimallin transformaatio

Grant: 4 000 €

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Teknillinen Korkeakoulu, Sähkö- ja tietoliikenne tekniikka

Topic: Multiantenna Receivers (MIMO) in High Speed Downlink Packet Access (HSDPA) Systems

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Honglei Miao

Department of Electrical Engineering, University of Oulu

Topic: Space-time Processing from Centralized MIMO System to Distributed Wireless Networks: Channel Estimation and Signal Design

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Topic: Packet Level Performance Evaluation of 4G All-IP Mobile Networks

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Topic: Source Adaptation and Audio Extensions for AMR Codec Family

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Tampereen teknillinen yliopisto, Sähkötekniikan osasto

Topic: Mikroelektroniikan 3D-rakenteiden sähkömagneettinen mallintaminen

Grant: 5 000 €

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Topic: The Reliability of SnAgCu Solder Joints Under Thermo-mechanical Stresses

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Tero Juhani Nurmi

Turun Yliopisto, Informaatioteknologian laitos

Topic: Architecture/ Technology Exploration of System-on-Chip Modules towards Nanotechnologies

Grant: 5 000 €

Emilia Kristiina Oikarinen

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Modulaarinen deklaratiivinen sääntöpohjainen rajoiteohjelmointi

Grant: 5 000 €

Jarkko Ilari Paavola

Turun Yliopisto, Informaatioteknologian laitos

Topic: Signal Design for High-Capacity CDMA Networks

Grant: 5 000 €

Mia Marjukka Peltomäki

Turun yliopisto, Informaatioteknologian laitos

Topic: Loogisen päättelyn formaalit menetelmät matematiikan ja tietotekniikan lukio-opetuksessa

Grant: 5 000 €

Jari Petri Olavi Peltonen

Tampereen teknillinen yliopisto, Tietotekniikan osasto, Ohjelmistotekniikka

Topic: Customizable Tool Support for Software Development Processes - a Visual Language Based Approach

Grant: 5 000 €

Katariina Maaria Penttilä

Tampereen teknillinen yliopisto, Sähkötekniikan osasto

Topic: RFID lukijan kehittäminen tulevaisuuden automatisoituun tunnistukseen

Grant: 5 000 €

Pasi Eerikki Pertilä

Tampereen teknillinen yliopisto, Tietotekniikan osasto

Topic: Äänilähteen paikannus

Grant: 5 000 €

Vadim Piatnitsa

Electrotechnical University of St. Petersburg, Microelectronics Laboratory, Department of Engineering

Topic: Investigation and Design of Miniaturized Passive Components for Wireless Communication System Application Based on the Novel Multilayer Technology

Grant: 5 000 €

Tuomo Väinö Vilhelm Pirinen

Tampereen Teknillinen Yliopisto, Tietotekniikan Osasto

Topic: Aikaeroon perustuva tulosuunnan arviointi

Grant: 5 000 €

Ekaterina Pogossova

Tampere University of Technology, Department of Information Technology

Topic: Spectral Techniques: Fast Algorithms and Applications in Signal Processing, Logic Design and Communications

Grant: 5 000 €

Mikko Johannes Pohja

Teknillinen Korkeakoulu, Tietotekniikan osasto

Topic: Browser Component API

Grant: 5 000 €

Jonne Kalevi Poikonen

Turun yliopisto

Topic: Analogisten rakenteiden optimointi suuritehoista rinnakkaisprosessoria varten

Grant: 5 000 €

Jani Paavo Johannes Puttonen

Jyväskylän yliopisto, Tietotekniikan laitos

Topic: Liikkuvuuden hallinta tulevaisuuden langattomissa verkoissa

Grant: 5 000 €

Sampo Mikael Pyysalo

Turun yliopisto, Informaatioteknologian laitos, Tietojenkäsittelytiede

Topic: Structured Information Extraction from Scientific Publications: A Knowledge-Rich Machine Learning Approach

Grant: 5 000 €

Esa Mikael Rahtu

Oulun yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Invariantit menetelmät hahmontunnistuksessa

Grant: 5 000 €

Sylvain Ranvier

Helsinki University of Technology, Department of Electrical and Communications Engineering

Topic: Radio Wave Propagation and Antennas for Very Broadband Mobile Communications

Grant: 4 000 €

Mika Petteri Rautiainen

Oulun yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Digitaalisen videon sisältöanalyysimenetelmät videonhallintajärjestelmissä

Grant: 5 000 €

Cassio Barboza Ribeiro

Helsinki University of Technology, Signal Processing Laboratory

Topic: Stochastic Maximum-likelihood MIMO Propagation Parameter Estimation

Grant: 5 000 €

Tapio Veli Juhani Ristimäki

Host: Tampereen teknillinen yliopisto, Tietotekniikan osasto

Topic: Uudelleenkonfiguroitavuus järjestelmäpiireissä

Grant: 5 000 €

Hagh Ghadam Ali Shahed

Tampere University of Technology, Department of Information Technology

Topic: Advance Digital Signal Processing (DSP) Methods for Compensating Nonidealities in Communications Receivers

Grant: 5 000 €

Mikko Heikki Saukoski

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Mikromekaanisen gyroskoopin integroitu luku- ja ohjauselektroniikka

Grant: 5 000 €

Niilo Torsten Sirola

Tampereen teknillinen yliopisto

Topic: Algoritmeja satelliitti- ja tukiasemapaikannusdatan yhdistämiseen

Grant: 5 000 €

Johan Valfrid Daniel Sommarek

Helsinki University of Technology, Department of Electrical and Communications Engineering

Topic: Digital Modulators with On-chip D/A converters

Grant: 5 000 €

Isameldin Mohammed Suliman

University of Oulu, Telecommunication Laboratory

Topic: Performance Studies of Heterogeneous Wireless Networks: with Resource Allocation Issues

Grant: 5 000 €

Toni Tapani Tamminen

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Bayesilaiset mene-telmät tietokonenäössä

Grant: 5 000 €

Mari Hannele Tiitu

Teknillinen korkeakoulu, Teknillisen fysiikan ja matematiikan osasto

Topic: Local and Overall Order in Self-organized Conducting Polymers

Grant: 5 000 €

Tuukka Olli Artturi Toivonen

Oulun Yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Muunnospohjainen liikkeenestimointi

Grant: 5 000 €

Antti Heikki Tölli

Oulun Yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Radioresurssien hallinta tulevaisuuden langattomissa (4G) matka-viestintäjärjestelmissä

Grant: 5 000 €

Mikko Antero Vapa

Jyväskylän yliopisto, Tietotekniikan laitos

Topic: NeuroSearch: Adaptive Resource Discovery Algorithm for Peer-to-Peer Networks

Grant: 5000 €

Laura Ilona Vesalainen

Turun yliopisto, IT-laitos, Mikroelektroniikan laboratorio

Topic: Datamuunnin- ja sumeanlogiikanlohkojen kehittäminen rinnakkai-sprosessorirakenteeseen

Grant: 5 000 €

Juho Ville Vihonen

Tampereen Teknillinen Yliopisto, Signaalinkäsittelyn laitos

Topic: Signaalin havaitseminen heikoissa signaali-kohina olosuhteissa (RF-teknisissä sovelluksissa)

Grant: 5 000 €

Jouni Matias Viinikka

Université de Caen, Informatique (Tietotekniikka)

Topic: Analysis Tools for Security Alert Management

Grant: 5 000 €

Lasse Veikko Samuli Vuokko

Teknillinen Korkeakoulu

Topic: MIMO Radio Systems and Radiowave Propagation

Grant:

Nokia Scholarships 2003

Mohammed Ahmed

Lappeenranta University of Technology

Topic: Sliding Mode Control for Switch Mode Power Supply

Grant: 5 000 €

Juha Heikki Alakarhu

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Muistijäljen mallin-tamiseen perustuva DRAM-järjestelmän suunnittelu

Grant: 3 500 €

Petra Johanna Alén

Helsingin yliopisto, Epäorgaanisen kemian osasto

Topic: Nitridikalvojen kasvattaminen ald-menetelmällä mikro-elektroniikan sovelluksiin

Grant: 5 000 €

Peter Mihai Antoniac

University of Oulu

Topic: Mobile Augmented Reality Interface Sign Interpretation Language (marisil)

Grant: 5 000 €

Katja Marika Battarbee

Taideteollinen korkeakoulu, Muotoilun osasto

Topic: Co-experience - User Experience in Interaction

Grant: 5 000 €

Radu Ciprian Bilcu

Tampere University of Technology, Institute of Signal Processing

Topic: Adaptive Finite Impulse Response Filters and Applications

Grant: 5 000 €

Dag Wiking Björklund

Åbo Akademi, Kemisk Tekniska Fakulteten

Topic: High-level Design of Heterogeneous Embedded Systems

Grant: 5 000 €

Péter Pál Boda

Teknillinen korkeakoulu / MIT Spoken Language Systems Group

Topic: Semantiikka laajemmassa mielessä: Yhtenäinen lähestymistapa multimodaaliseen fuusioon, kielen ymmärtämiseen ja kontekstin tulkintaa

Grant: 5 000 €

Maciej Jan Borkowski

University of Oulu

Topic: Very Low Noise Sigma-delta Frequency Synthesis

Grant: 5 000 €

Pablo César

Helsinki University of Technology, Telecommunication Software and Multimedia lab

Topic: Graphical User Interface Components for Embedded Devices

Grant: 5 000 €

Jan Mauritz Eriksson

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Theory and Algorithms of Independent Component Analysis and Signal Separation

Grant: 5 000 €

Lasse Kalervo Harju

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Monistandardi-vastaanottimen digitaali-radion toteutusmenetelmät järjestelmämikropiirillä

Grant: 5 000 €

Vesa Petteri Hasu

Teknillinen korkeakoulu

Topic: Adaptiivinen keilanmuodostus ja tehon-säätö langattomassa tietoliikenteessä

Grant: 5 000 €

Klaus Johan Christian Himberg

Teknillinen korkeakoulu

Topic: Käyttöliittymät ja tiedon louhinta

Grant: 5 000 €

Jonna-Riitta Häkkilä

University of Oulu

Topic: Interaction with Context-aware Mobile Handheld Devices

Grant: 4 000 €

Matti Ilmari Hämäläinen

University of Oulu

Topic: Ultra Wideband Co-existence Studies

Grant: 5 000 €

Perttu Juho Hämäläinen

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Tietokonenäköön ja -kuuloon perustuvat opetukselliset käyttöliittymät

Grant: 5 000 €

Tero Veikko Kaija

Tampereen teknillinen korkeakoulu, Sähkötekniikan osasto

Topic: Komponenttimittauksissa käytettävien testirakenteiden optimointi soi-alustalla

Grant: 5 000 €

Ilkka Veikko Johannes Kalliomäki

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Probabilistic Methods for Pose-invariant Recognition in Computer Vision

Grant: 5 000 €

Jouni Kristian Kaukovuori

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Matalan tehon-kulutuksen radiotaajuus-piirien integrointi CMOS-teknologialla

Grant: 5 000 €

Kimmo Keränen

University of Oulu

Topic: Photonic Module Miniaturization and Integration Process

Grant: 5 000 €

Mikko Jalmari Kohvakka

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Ubiquitous-verkon suunnittelu ja toteutus

Grant: 5 000 €

Henri Markus Koskinen

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Ad hoc-verkkojen suorituskykyanalyysi

Grant: 5 000 €

Joonas Veli-Allan Krogerus

Teknillinen korkeakoulu, Sähkö- ja tietoliikenne-tekniikan osasto

Topic: Development of Antenna Performance Measurement Methods and Multi-antenna Structures for Mobile Terminals

Grant: 5 000 €

Janne Kurjenniemi

Jyväskylän yliopisto

Topic: Radioresurssien hallinta tulevaisuuden matkapuhelinjärjestelmissä

Grant: 5 000 €

Heidi Camilla Kuusniemi

Tampereen teknillinen korkeakoulu / Departmebt of Geomatics Engineering, University of Calgary

Topic: Virheentunnistus matkapuhelimen käyttäjän paikannuksessa

Grant: 5 000 €

Veikka Roope Olavi Kylmäkoski

Tampereen teknillinen korkeakoulu

Topic: Tehostettua tuotteiden määrittelyä ohjelmistoprojekteissa RaPiD7 menetelmällä

Grant: 5 000 €

Timo Mikael Latvala

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Asynkronisten järjestelmien mallintarkastus

Grant: 5 000 €

Vesa Kalervo Lehtinen

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Digitaalisia signaalinkäsittelyalgoritmeja sekä niiden epäideaalisuudet ja analyysimenetelmät tietoliikennejärjestelmissä

Grant: 4 000 €

Janne Jooseppi Lehtomäki

Oulun yliopisto

Topic: Tietoliikennesignaalien ilmaisu

Grant: 5 000 €

Jari Tapio Leino

Jyväskylän yliopisto, Tietotekniikan laitos

Topic: Moniantennijärjestelmät langattomissa matkaviestinjärjestelmissä

Grant: 5 000 €

Sari Maija Leppänen

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Rigorous Development of Communicating Systems

Grant: 5 000 €

Pasi Kristian Liljeberg

Turun yliopisto, Informaatioteknologian laitos

Topic: Asynkroniset piiriarkkitehtuurit ja signalointimenetelmät tulevaisuuden tietoliikennejärjestelmäpiireissä

Grant: 5 000 €

Mikko Topi Loikkanen

Oulun yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Audio- ja tehonsäätörakenteiden pienitehoiset matalan käyttöjännitteen CMOS tehovahvistimet

Grant: 5 000 €

Matti Tapani Makkonen

Teknillinen korkeakoulu, Teknillisen fysiikan ja matematiikan osasto

Topic: Akustiset pinta-aaltosuodattimet bluetooth-standardiin ja langattoman lähiverkon (5GHz) taajuuksille

Grant: 5 000 €

Honglei Miao

University of Oulu

Topic: Pilot Based and Blind Channel Estimation for Wireless MIMO-ofdm System

Grant: 5 000 €

Jani Tapio Miettinen

Tampereen teknillinen korkeakoulu, Sähkötekniikan osasto

Topic: Mikroelektroniikan 3D pakkaustekniikan luotettavuutta käsittelevä väitöstutkimus

Grant: 5 000 €

Dmitri Moltchanov

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Packet Level Performance Evaluation of 4g All-ip Mobile Networks

Grant: 5 000 €

Ville Pertti Johannes Ojansivu

Oulun yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Video Stabilization and Applications

Grant: 5 000 €

Jarkko Ilari Paavola

Turun yliopisto, Informaatioteknologian laitos

Topic: Signal Design for High-capacity CDMA Networks

Grant: 5 000 €

Katariina Maaria Penttilä

Tampereen teknillinen yliopisto

Topic: Rfid-lukijan kehittäminen tulevaisuuden automatisoituun läsnä-äly-tunnistukseen

Grant: 5 000 €

Lauri Ilja Waltter Pesonen

University of Cambridge, Computer Laboratory

Topic: Autentikointi ja valtuutus avoimissa ja laajastihajautetuissa järjestelmissä

Grant: 5 000 €

Tuomo Väinö Vilhelm Pirinen

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Aikaeroon perustuva tulosuunnan arviointi

Grant: 5 000 €

Jonne Kalevi Poikonen

Turun yliopisto, Informaatioteknologian laitos

Topic: Analogisten rakenteiden optimointi suuritehoista rinnakkaisprosessoria varten

Grant: 5 000 €

Jouni Antero Riihimäki

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Hw:n mallinnus ja varmennus korkealla abstraktitasolla

Grant: 5 000 €

Tuomo Matias Ritari

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Fotonikidekuitujen optiset ominaisuudet

ja sovellukset tietoliikennetekniikassa

Grant: 5 000 €

Claudio Riva

Vienna University of Technology

Topic: Architecture Reconstruction

Grant: 5 000 €

Timo Eric Roman

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Advanced Receiver Algorithms for Multicarrier MIMO Communication Systems

Grant: 5 000 €

Jari Pekka Salo

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Radiokanavan Markovmallinnus moniantennijärjestelmissä

Grant: 5000 €

Matti Mikael Siekkinen

Institut Eurécom/ University of Nice -Sophia Antipolis

Topic: Network Tomography Applied to TCP

Grant: 5 000 €

Vesa Sakari Siivola

Teknillinen korkeakoulu, Informaatiotekniikan laboratorio

Topic: Kielen mallintaminen puheentunnistusta varten

Grant: 5 000 €

Niilo Torsten Sirola

Tampereen teknillinen korkeakoulu

Topic: Algoritmeja sateliitti- ja tukiasema-paikannusdatan yhdistämiseen

Grant: 5 000 €

Johan Valfrid Daniel Sommarek

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Monistandardi modulaattorin toteuttaminen digitaalis-analogisena integroituna piirinä ja digitaalianalogia rajapinnan siirtäminen kohti antennia

Grant: 5 000 €

Ilari Aleksi Teikari

Teknillinen korkeakoulu, Sähkö- ja tietoliikenne-tekniikan osasto

Topic: Tehovahvistimien digitaaliset linearisointimenetelmät

Grant: 5 000 €

Teemu Sakari Tiuraniemi

Oulun yliopisto / Swiss Federal Institute of Technology

Topic: Ultra Wideband Systems

Grant: 5 000 €

Tuukka Olli Artturi Toivonen

Oulun yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Muunnospohjainen liikkeen estimointi

Grant: 5 000 €

Antti Heikki Tölli

Oulun yliopisto, Sähkö-osasto

Topic: Radioresurssien hallinta tulevaisuuden langattomissa (4g) matka-viestintäjärjestelmissä

Grant: 5 000 €

Riku Henrik Uusikartano

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Hardware-efficient Intermediate Frequency

Signal Processing Architecture for Digital Transceivers

Grant: 5 000 €

Anne-Maria Vainionpää

Tampereen teknillinen yliopisto, Optoelektroniikan tutkimuskeskus

Topic: Vertikaalisella geometrialla toteutettavat ultranopeat valolähteet

Grant: 5 000 €

Pasi Markus Vakaslahti

Tampereen teknillinen yliopisto / UNM & Santa Fe Institute

Topic: Corporate Networks: Software Co-development in the Context of Product Process, Value Chains and Business Models

Grant: 5 000 €

Jani Lauri Johannes Valtanen

Tampereen teknillinen korkeakoulu, Sähkötekniikan osasto

Topic: Elektroniikan liitostekniikoiden luotettavuuden laskennallinen mallinnus

Grant: 5 000 €

Jarno Johannes Vanne

Tampereen teknillinen korkeakoulu, Institute of Digital and Computer Science

Topic: Parallel Memories for Application Specific and General-purpose Design

Grant: 5 000 €

Juha Johannes Vartiainen

Teknillinen korkeakoulu, Teknillisen fysiikan ja matematiikan osasto

Topic: Quantum Computing on Superconducting Circuits

Grant: 5 000 €

Nenad Veselinovic

Oulun yliopisto, CWC

Topic: Joint Iterative Decoding and Interference Suppression in Future Wireless Systems

Grant: 4 000 €

Ari Tapio Viholainen

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Filter Bank Design for Multicarrier Systems

Grant: 5 000 €

Reino Veikko Tapio Virrankoski

Teknillinen korkeakoulu / Yale University

Topic: Localization in Wireless Ad-hoc Networks

Grant: 5 000 €

Satu Elisa Virtanen

Teknillinen korkeakoulu, Tietotekniikan osasto / Chilen yliopisto

Topic: Epäuniformien satunnaisverkkojen algoritmit

Grant: 5 000 €

Lasse Veikko Samuli Vuokko

Teknillinen korkeakoulu, Radiolaboratorio

Topic: MIMO Radio Systems and Radiowave Propagation

Grant: 5 000 €

Olli Johannes Väänänen

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Tehovahvistimen hyötysuhteen parantami-nen digitaalisilla signaalin-käsittelymenetelmillä

Grant: 5 000 €

Jian Zhang

Jyväskylän yliopisto

Topic: QoS- and Revenue-aware Scheduling Algorithms for Web Server Systems

Grant: 5 000 €

Xiasong Zheng

University of Oulu

Topic: Enterprise Mobile Services, a Case Study of Mobile Virtual Meeting

Grant: 5 000 €

Nokia Scholarships 2002

Eero Aho

Tampereen teknillinen korkeakoulu, Tietotekniikanosasto

Topic: Konfiguroitava rinnakkaismuisti multimediasovelluksille

Grant: 5 000 €

Juha Alakarhu

Tampereen teknillinen korkeakoulu

Topic: DRAM-muistien suorituskyvyn parantaminen tehokkaalla sarakevahvistimien käytöllä

Grant: 3 500 €

Petra Alén

Helsingin yliopisto, Epäorgaanisen kemian osasto

Topic: Nitridikalvojen kasvattaminen ALD-menetelmällä mikroelektroniikan sovelluksiin

Grant: 4 000 €

Esa Alhoniemi

Teknillinen korkeakoulu

Topic: Unsupervised methods for analysis of industrial process data

Grant: 5 000 €

Djordje Babic

Tampereen teknillinen korkeakoulu

Topic: Sampling rate conversion in software radio receivers

Grant: 4 000 €

Pavel Belov

Teknillinen korkeakoulu

Topic: Analytical Studies of Complex Microwave Stop Band Structures

Grant: 5 000 €

Ella Bingham

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Tiedonhaun tilastolliset menetelmät, erityisesti riippumattomien komponenttien analyysi

Grant: 4 500 €

Dag Björklund

Åbo Akademi

Topic: High-level Design of Heterogenous Embedded Systems

Grant: 5 000 €

Pablo César

Teknillinen korkeakoulu

Topic: Graphical User Interface Components for Embedded Devices

Grant: 5 000 €

Jussi Collin

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Sensoriavusteinen henkilökohtainen paikannus

Grant: 5 000 €

Jose Costa-Requena

Teknillinen korkeakoulu

Topic: Ad Hoc Networks within UMTS

Grant: 5 000 €

Nedeljko Cvejic

Oulun yliopisto

Topic: Audio Watermaking Algirithms and Steganographic Analysis of Audio Signals

Grant: 5 000 €

Jan Eriksson

Teknillinen korkeakoulu

Topic: Improved and Extended Algorithms for Blind MIMO Separation

Grant: 5 000 €

Antti Eronen

Tampereen teknillinen korkeakoulu

Topic: Äänen lähteen automaattinen tunnistus

Grant: 5 000 €

Goery Genty

Teknillinen korkeakoulu

Topic: Novel Components for High-speed Telecommunications

Grant: 3 000 €

Harri Haanpää

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Computational Generation of Combinatiorial Structures

Grant: 5 000 €

Lasse Harju

Tampereen teknillinen korkeakoulu, Digitaali- ja tietotekniikan laitos

Topic: Monistandardi-vastaanottimen digitaali-radion toteutusmenetelmät järjestelmämikropiirillä

Grant: 5 000 €

Henry Haverinen

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Langattomien lähiverkkojen ja mobiiliverkkojen konvergenssi

Grant: 5 000 €

Jouko Heikkinen

Tampereen teknillinen korkeakoulu, Elektroniikan laitos

Topic: Langaton tehonsiirto

Grant: 5 000 €

Antti Heiskanen

Oulun yliopisto

Topic: RF-tehovahvistimen särön muisti-ilmiöiden analysointi ja minimointi

Grant: 5 000 €

Pertti Henttu

Oulun yliopisto, Tietoliikennelaboratorio

Topic: Häiriön vaimennus laajakaistaisessa tietoliikennesysteemissä

Grant: 5 000 €

Mikko Alvari Honkala

Teknillinen korkeakoulu, Sähkö-ja tietoliikennetekniikan osasto

Topic: Rinnakkaiset piirisimulointimenetelmät

Grant: 5 000 €

Mikko Johannes Honkala

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Interactive XML Devices

Grant: 5 000 €

Janne Häkli

Teknillinen korkeakoulu, Sähkö-ja tietoliikennetekniikan osasto

Topic: Kaksiheijastiminen syöttö hologrammiin perustuvaan kompaktiin antennimittauspaikkaan

Grant: 5 000 €

Tomi Jouhti

Tampereen teknillinen korkeakoulu

Topic: Optisen tietoliikenteen uusien puolijohdelaserien suunnittelu, valmistus ja karakterisointi

Grant: 5 000 €

Tero Kaija

Tampereen teknillinen korkeakoulu, Sähkötekniikan osasto

Topic: Komponenttimittauksissa käytettävien testirakenteiden optimointi SOI-alustalla

Grant: 5 000 €

Harri Kalimo

Turun yliopisto, Oikeustieteellinen tiedekunta

Topic: Recycling - at Cross Roads of Environmental Protection and Free Trade

Grant: 5 000 €

Jaakko Ketola

Teknillinen korkeakoulu

Topic: Digitaaliset ylössekoituspiirit

Grant: 5 000 €

Marianne Kinnula

Oulun yliopisto, Tietojenkäsittelytieteen laitos

Topic: Ohjelmistotilaaja-toimittajasuhteen onnistumisen edellytykset suhteen muutosvaiheessa

Grant: 5 000 €

Mikko Kohvakka

Tampereen teknillinen korkeakoulu, Tietotekniikka

Topic: Ubinode -päätelaitteen suunnittelu ja toteutus

Grant: 5 000 €

Jarmo Korhonen

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Semantic Web Services and Software Architecture

Grant: 5 000 €

Harri Kosonen

Teknillinen korkeakoulu, Teknillisen fysiikan ja matematiikan laitos

Topic: Polymeeriset "bandgap" -materiaalit

Grant: 4 000 €

Janne Kurjenniemi

Jyväskylän yliopisto

Topic: Radioresurssien hallinta langattomissa matkaviestintäjärjestelmissä

Grant: 4 000 €

Heidi Kuusniemi

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Virheentunnistus matkapuhelimen käyttäjän paikannuksessa

Grant: 5 000 €

Joni-Kristian Kämäräinen

Lappeenrannan teknillinen korkeakoulu

Topic: Tila-taajuus kuva-analyysi Gabor-suotimilla

Grant: 2 000 €

Vesa Lahtinen

Tampereen teknillinen korkeakoulu, Tietotekniikanosasto

Topic: Valmiiksisuunniteltujen lohkojen yhteenliittäminen mikropiirien suunnittelussa

Grant: 5 000 €

Mika Laiho

Teknillinen korkeakoulu, Sähkö-ja tietoliikennetekniikan osasto

Topic: Integroidut sovelluskohtaiset rinnakkaisprosessorit

Grant: 5 000 €

Tommi Laitinen

Technical University Denmark

Topic: Nopeaan antennimittauslaitteistoon soveltuvan kaksoispolarisaatioantennin kehittäminen 0.9 - 3 GHz:n tajuusalueelle

Grant: 5 000 €

Janne Lehtomäki

Oulun yliopisto, Sähkötekniikan osasto

Topic: Tietoliikennesignaalien ilmaisu

Grant: 5 000 €

Jari Leino

Jyväskylän yliopisto

Topic: Tx Diversity Schemes in WCDMA Network

Grant: 5 000 €

Zhenghong Li

University of Oulu

Topic: Adaptive MILSE-based PSP Receivers for Space-time Coded System

Grant: 5 000 €

Pasi Liljeberg

Turun yliopisto, Informaatioteknologian laitos

Topic: Asynkroniset piiriarkkitehtuurit ja signalointimenetelmät tulevaisuuden tietoliikennejärjestelmäpiirissä

Grant: 5 000 €

Simona Lohan

Tampereen teknillinen korkeakoulu

Topic: Channel Estimation for Wideband CDMA Receivers

Grant: 5 000 €

Anne Lönnqvist

Teknillinen korkeakoulu, Sähkötekniikka

Topic: Radiotaajuiset hologrammit

Grant: 5 000 €

Jukka Manner

Helsingin yliopisto, Tietojenkäsittelytieteenlaitos

Topic: Interactions of IP QoS and Mobility Management in a Wireless Access Network

Grant: 5 000 €

Topi Mäenpää

Oulun yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Paikallisten binäärikuvioiden ja väri-informaation käyttö reaaliaikaisessa kuva-analyysissä

Grant: 5 000 €

Riitta Niemistö

Tampereen teknillinen korkeakoulu

Topic: Fast Adaptive and Iterative Algorithms for Design of Linear Filters

Grant: 5 000 €

Kari Pihkala

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Adaptiiviset multimediaformaatit

Grant: 5 000 €

Pekka Pirinen

Oulun yliopisto, Sähkö- ja tietotekniikan osasto

Topic: Kehittyneiden laajakaistaisten CDMA-radioverkkojen kapasiteetti- ja herkkyysanalyysi

Grant: 5 000 €

Konsta Punkka

Tampereen teknillinen korkeakoulu, Tietotekniikanosasto

Topic: Digitaalisten signaalinkäsittely-järjestelmien toteutus

Grant: 5 000 €

Anu Purhonen

Oulun yliopisto

Topic: Hardware-related Software Architecture Development

Grant: 5 000 €

Karthikesh Raju

Teknillinen korkeakoulu

Topic: Adaptive Separation Algorithms for Communication Receivers

Grant: 5 000 €

Tero Rissa

University of London, Imperial College, Department of Computing

Topic: Methods and Tools for Developing Applications on Advanced Reconfigurable Platforms and Programmable System-on-chip Devices

Grant: 5 000 €

Jarkko J.Saarinen

Joesuun yliopisto

Topic: Nanokomposiittien optiset ominaisuudet ja dispersioteoria

Grant: 5 000 €

Hanna Sairo

Tampereen teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Satelliittipaikannusdatan jalostaminen

Grant: 5 000 €

Erno Salminen

Tampereen teknillinen korkeakoulu, Digitaali- ja tietotekniikan laitos

Topic: Järjestelmäpiirien kommunikointi-menetelmien tutkimus ja kehitys

Grant: 5 000 €

Teemu Salo

Teknillinen korkeakoulu, Piiritekniikan laboratorio

Topic: Digitaalisen kanavanvalinnan mahdollistava

analogia-digitaali-rajapinta matkapuhelinvastaanotti-meen

Grant: 5 000 €

Anne Seppälä

Tampereen teknillinen korkeakoulu, Sähkötekniikan osasto

Topic: Suoraliittäminen anistrooppisesti johtavilla liimoilla

Grant: 5 000 €

Bilhanan Silverajan

Tampereen teknillinen korkeakoulu

Topic: Extending CORBA Technology for Next Generation Network Applications

Grant: 5 000 €

Marius Sirbu

Teknillinen korkeakoulu

Topic: Channel Estimation and Equalization Techniques for MIMO Systems

Grant: 5 000 €

Pasi Suvikunnas

Teknillinen korkeakoulu, Sähkö- ja tietoliikenne-tekniikan osasto

Topic: Monielementtisten antennien optimointi MIMO-järjestelmissä

Grant: 5 000 €

Jussi Tohka

Tampereen teknillinen korkeakoulu, Tietotekniikka

Topic: Globaaliin optimointiin perustuvat mukautuvat pintamallit

Grant: 4 000 €

Jani Valtanen

Tampereen teknillinen korkeakoulu

Topic: Elektroniikan liitostekniikoiden luotettavuuden laskennallinen mallinnus

Grant: 5 000 €

Tuomas Valtonen

Turun yliopisto

Topic: New Concepts for Future Information Processing and Telecommunication

Grant: 5 000 €

Jarno Vanne

Tampereen teknillinen korkeakoulu

Topic: Multimedia Processor Utilizing Configurable Parallel Memory Architecture

Grant: 5 000 €

Nenad Vecelinovic

University of Oulu

Topic: Joint Iterative Decoding and Inteference Suppression in Future Wireless Systems

Grant: 4 000 €

Tuomas Virtanen

Tampereen teknillinen korkeakoulu

Topic: Äänisignaalien sisällön analyysi välitason esitysmuotojen avulla

Grant: 5 000 €

Vuokko Vuori

Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Adaptive Methods for On-line Recognition of Isolated Handwritten Characters

Grant: 5 000 €

Tauno Vähä-Heikkilä

Turun yliopisto

Topic: 0.1 - 110 GHz RF MEMS komponentit

Grant: 5 000 €

Olli Väänänen

Teknillinen korkeakoulu

Topic: Matkaviestintäjärjest-elmän tukiaseman teho-vahvistimen hyötysuhteen parantaminen käyttämällä

digitaalisia signaalinkäsitte-lymenetelmiä

Grant: 5 000 €

Nokia Scholarships 2001

Matti Aksela

Teknillinen korkeakoulu, Informaatiotekniikan laboratorio

Topic: Adaptiivinen reaaliaikainen käsinkirjoitettujen merkkien tunnistus

Peter Boda

Teknillinen korkeakoulu, Sähkötekniikan osasto / MIT Spoken Language Group

Topic: Engineering methods for Language Technology: Embedded Solutions for Natural Language Understanding and Dialogue Management

Andrew Bright

Technical University of Denmark

Topic: Optimisation of miniature loudspeaker systems employing adaptive equalization

Ulrico Celentano

Oulun yliopisto, Centre of Wireless Communications

Topic: Resource Allocation and Routing Policy for Quality of Service Support in Multiservice Multi-hop Networks

Jussi Collin

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Inertiapaikannus kannettavissa päätelaitteissa

Florean Curticapean

Tampereen teknillinen korkeakoulu, Institure

of Digital and Computer Systems

Topic: Hardware Efficient Architectures for Direct Digital Synthesis

Nedeljko Cvejic

Oulun yliopisto

Topic: Watermarking algorithms and steganographic analysis of audio signals

Mohammed Elmusrati

Teknillinen korkeakoulu, Control Engineering laboratory

Topic: Joining of the Power Control and MIMO Smart Antenna in 3G Mobile Communication System

Laura Frisk

Tampereen teknillinen korkeakoulu, Elektroniikan laitos

Topic: Ohennettujen piisirujen liittäminen tiheille ja joustaville piirilevyille

Panu Hämäläinen

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Kehittyneet langattomat päätelaitteet

Jari Heikkinen

Tampereen teknillinen korkeakoulu, Digitaali- ja tietotekniikan laitos

Topic: Konfiguroitavan prosessoriarkkitehtuurin optimointi digitaalisen signaalinkäsittelyn tehtäviin

Kari Heiska

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto

Topic: Laskentamenetelmien kehittäminen WCDMA-järjestelmän suorituskyvyn arvioimiseksi

Antti Heiskanen

Oulun yliopisto, Sähkötekniikan osasto

Topic: RF-tehovahvistimien särön muisti-ilmiöiden analysointi ja minimointi

Pertti Henttu

Oulun yliopisto, Tietoliikennelaboratorio

Topic: Häiriön vaimennus laajakaistaisessa tietoliikennesysteemissä

Mikko Alvari Honkala

Teknillinen korkeakoulu, Teoreettisen sähkötekniikan laboratorio

Topic: Rinnakkaiset piirisimulointimenetelmät

Mikko Johannes Honkala

Teknillinen korkeakoulu, Tietoliikenne- ja multimediatekniikan laboratorio

Topic: Interactive XML Devices

Erja Jokinen

Tampereen teknillinen korkeakoulu, Elektroniikan laitos

Topic: Elektroniikan suoraliittäminen joustaville alustoille käyttäen anistrooppisesti sähköjohtavia liimoja

Jarkko Jussila

Teknillinen korkeakoulu, Piiritekniikan laboratorio

Topic: Multi-mode suora-muunnosvastaanottimen analogisen kanta-taajuusosan integrointi-toteutukset

Toni Jussila

Teknillinen korkeakoulu, Tietojenkäsittelyteorian laboratorio

Topic: Protokollaohjelmistojen rajoitettu mallintarkastus

Tero Kangas

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikan laitos

Topic: Alustapohjaisen suunnittelumenetelmän toteutus multimedia-sovelluksiin suunnatuille järjestelmäpiireille

Jani Käppi

Tampereen teknillinen korkeakoulu, Digitaali- ja tieto-konetekniikka

Topic: Inertianavigointime-netelmät henkilökohtaises-sa paikannuksessa

Mikko Kärkkäinen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Numeerinen mallintaminen radiotekniikassa

Juha Karvanen

Teknillinen korkeakoulu, Signaalinkäsittelytekniikan laboratorio

Topic: Adaptive Blind Separation Methods for MIMO Systems

Sami Karvonen

Oulun yliopisto, Sähkötekniikan osasto

Topic: Alinäytteistävään I/Q-alassekoitukseen ja siihen integroituun suodatukseen perustuvia uusia radiovastaanotin-rakenteita

Harri Kiljander

Teknillinen korkeakoulu, Computer Science and Engineering Telecommunication Software & Multimedia

Topic: User Interface Portfolio Management

Outi Kivekäs

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Uudet matkaviestiantennit

Tomi Koskinen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Alimillimetrialueen hologrammin suunnittelu ja simulointi

Mauri Kuorilehto

Tampereen teknillinen korkeakoulu, Digitaali- ja tietotekniikan laitos

Topic: Palvelun laadun tukeminen verkkojen välillä

Saku Lehtonen

Teknillinen korkeakoulu, Materiaalifysiikan laboratorio

Topic: Taajuusalueella 5–10 GHz toimivien SAW-resonaattorien ja suodattimien suunnittelu, valmistus ja karakrerisointi

Zhenhong Li

VTT Electronics Oulu

Topic: Adaptive MLSE-Based PSP Receivers for Spacetime Coded Systems

Jan Lindström

Helsingin yliopisto, Tietojenkäsittelytieteen laitos

Topic: Optimistic Currency Control, Methods for Real-Time Databases in Telecommunication

Tapio Lokki

Teknillinen korkeakoulu, Tietoliikenneohjelmistojen ja Multimedian Laboratorio

Topic: Reaaliaikaisen vuorovaikutteisen auralisaation evaluointi

Anne Lönnqvist

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Radiotaajuiset hologrammit

Alessandro Maccari

University of Groningen, Software Engineering

Topic: Software Architecture Assessments for Product Families

Riku Matti Mäkinen

Tampereen teknillinen korkeakoulu, Elektroniikan laitos

Topic: Sähkömagneettisten kenttien numeerinen ratkaisu FDTD-menetelmällä

Johanna Meltaus

Teknillinen korkeakoulu

Topic: Pinta-akustiset CRF-suodattimet

Marko Neitola

Oulun yliopisto, Sähkötekniikan osasto

Topic: Laajakaistaisten sigma delta muunnin tekniikan soveltaminen uusien A/D- ja D/A-muunnin arkkitehtuurien toteutukseen

Sami Nurmi

Tampereen teknillinen korkeakoulu, Elektroniikan laitos

Topic: Juotosliitoksien luotettavuus (mm. flip chip)

Jani Nurminen

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Matalan bittinopeuden puheenkoodaus

Eeva Silja Nyberg

Teknillinen korkeakoulu, Tietoverkkolaboratorio

Topic: Verkon palvelumekanismien kvantifiointi paketti- ja vuotasolla palveluntarjoajan ja käyttäjän näkökulmasta

Juho Kalle Palomäki

Teknillinen korkeakoulu, Akustiikan ja äänenkäsittelytekniikan laboratorio

Topic: Tilakuulemisen laskennalliset mallit audiosovelluksissa

Vesa Aleksi Penttinen

Teknillinen korkeakoulu, Tietoverkkolaboratorio

Topic: Ad hoc-verkkojen reititysongelmat

Kari Pihkala

Teknillinen korkeakoulu

Topic: SMIL-multimediasoitin

Kimmo Pulakka

Tampereen teknillinen korkeakoulu, Tietoliikennetekniikan laitos

Topic: Älykkäät säätömenetelmien soveltuvuus tiedonsiirtoverkkojen tietovoiden hallintaan

Karthikesh Raju

Teknillinen korkeakoulu

Topic: Adaptive Separation Algorithms for Communication Receivers

Jussi Ryynänen

Teknillinen korkeakoulu, Piiritekniikan laboratorio

Topic: Radiotaajuusosien integrointi multi-mode vastaanottimiin

Jussi Säily

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Millimetri- ja alimillimetriaaltoalueen antennimittaustekniikan kehittäminen

Hanna Sairo

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: USIX: Älykkäät ja käyttäjäkeskeiset signaalinkäsittelyjärjestelmät/ Matkapuhelimen käyttäjän paikantaminen

Perttu Salmela

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Tehokkaat virheenkorjauskoodausmenetelmät

Erno Salminen

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Tehokas kommunikaatioarkkitehtuuri järjestelmäpiirejä varten

Teemu Salo

Teknillinen korkeakoulu, Piiritekniikan laboratorio

Topic: Välitaajuudelta näytteistävän GSM/UMTS vastaanottimen analogia-digitaalirajapinta

Pekka Salonen

Tampereen teknillinen korkeakoulu, Elektroniikan laitos

Topic: Tasomaisten Antennien Kehittäminen Mikroaaltoalueen Mobiilisovelluksiin

Anne Seppälä

Tampereen teknillinen korkeakoulu, Elektroniikan laitos

Topic: Suoraliittäminen anisotrooppisesti johtavilla liimoilla

Sami Siltala

Oulun yliopisto, tietoliikennelaboratorio

Topic: Turbokoodauksen soveltaminen häiriölliseen tiedonsiirtokanavaan CDMA- ja hajaspektrijärjestelmissä

Marius Sirbu

Teknillinen korkeakoulu, Signal Processing Laboratory

Topic: Blind and Semi-blind Receiver Structures for MIMO Systems

Kati Sulonen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Matkaviestivälineiden antennien suorituskyky

Heikki Tauriainen

Teknillinen korkeakoulu, Tietojenkäsittelyteorian laboratorio

Topic: Symboliset mallintarkastusmenetelmät lineaarisen ajan ominaisuuksien varifioinnissa

Jani Tervo

Joensuun yliopisto, Fysiikan laitos

Topic: Electromagnetic Diffractive Optics

Mari Tiitu

Teknillinen korkeakoulu, Optiikka ja molekyylimateriaali

Topic: Local and Overall Order in Self-organized Conducting Polymers

Djordje Tujkovic

Oulun yliopisto, CWC

Topic: Space-Time Coding for Future Wide-Band Radio Systems

Mikko Valkama

Kalifornian yliopisto, Berkeley, USA

Topic: Tietoliikennevastaanottimet

Tuomas Valtonen

Turku Centre of Computer Science

Topic: The Zero-Error Network

Seppo Virtanen

Turku Center for Computing Science

Topic: TACO (Tools for Application-specific Hardware / Software Co-design

Tuomas Virtanen

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Äänisignaalien analysointi välitason esitysmuotojen avulla

Samuli Visuri

Institut Eurécom, Mobile Communicatios Department, Sophia Antipolis, France

Topic: Statistical Signal Processing for Smart Antennas and MIMO Systems

Tauno Vähä-Heikkilä

Turun yliopisto, Sovelletun fysiikan laitos

Topic: Millimetriaaltoalueen MEMS-komponentit

Stefan Werner

Teknillinen korkeakoulu, Signal Processing Laboratory

Topic: Low-complexity Adaptive Receiver Algorithms for Wireless Communications

Jorma Ylinen

Tampereen teknillinen korkeakoulu, Porin korkeakouluyksikkö

Topic: Puhelinverkon ja IP-teknologian konvergenssi

Nokia Scholarships 2000

Matti Aksela

Teknillinen korkeakoulu, Informaatiotekniikka

Topic: Adaptiivinen reaaliaikainen

käsinkirjoitettujen merkkien tunnistus

Mohammed Elmusrati

Teknillinen korkeakoulu, Säätötekniikka

Topic: Smart antenna application in power control of mobile communication

Mihai Horatiu Enescu

Teknillinen korkeakoulu, Signaalinkäsittely

Topic: Blind and Semi-Blind Algorithms for Advanced Multiuser Communications

Leena Karoliina Eronen

Teknillinen korkeakoulu, Multimedia

Topic: Digitaalisen television käytettävyystutkimus

Harri Haanpää

Teknillinen korkeakoulu, Tietojenkäsittely

Topic: Constructing Combinatorial Objects

Panu Hämäläinen

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Langattomat kehittyneet päätelaitteet

Kimmo Hätönen

Helsingin yliopisto, Tietojenkäsittely

Topic: Advanced Fault and Performance Monitoring Methods for Data and Tesecom Networks (AMMe)

Sami Ilmari Hienonen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Passiivinen keskinäismodulaatiosärö tukiasema-antenneissa

Jarmo Hiipakka

Teknillinen korkeakoulu, Akustiikka

Topic: Digitaalinen interaktiivinen virtuaaliakustiikka

Tuomas Hollman

Teknillinen korkeakoulu, Piiritekniikka

Topic: Multi-mode vastaanottimen kantataajuiset integroidut piirit

Pentti Kalevi Huttunen

Lappeenrannan teknillinen korkeakoulu, Tietoliikennetekniikka

Topic: Parallel Simulation of GSM Networks on Heterogenous Multiprocessors Clusters

Sami Rikhard Hyvönen

Topic: Integrated FG Electronics

Esa Hyytiä

Teknillinen korkeakoulu, Teletekniikan laboratorio

Topic: Täysoptisten tietoliikenneverkkojen liikenneongelmat

Heli Maarit Jantunen

Oulun yliopisto, Mikroelektronikka

Topic: Uusi LTCC materiaali ja sen käyttö tietoliikennetekniikan sovellutuksissa

Tuomas Järvinen

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Järjestelmäarkkitehtuurin kehittäminen monikantoaaltotekniikkaa soveltavaan tiedonsiirtojärjestelmään

Mikko Juhola

Turun yliopisto

Topic: Kuvantava optiikka

Jussila Jarkko Kristian

Teknillinen korkeakoulu, Piiritekniikka

Topic: Dual-mode suora-muunnosvastaanottimen analogisen kantataajuus-osan integrointitoteutukset

Toni Tapio Jussila

Teknillinen korkeakoulu, Tietojenkäsittely

Topic: Symbolinen mallintarkastus

Kimmo Juhani Kansanen

Oulun yliopisto, Tietoliikenne

Topic: Häiriönpoisto-vastaanotintutkimus

Arto Kantsila

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Uusiin luokittelumenetelmiin pohjautuvat tietoliikennesignaalin ekvalisointimenetelmät

Kimmo Kärkkäinen

Teknillinen korkeakoulu / Applied Electromagnetics Group University of Victoria

Topic: Differenssimenetelmät sähkömagnetiikassa

Mikko Karppinen

Oulun yliopisto

Topic: Optinen tiedonsiirto

Jouni Karvo

Teknillinen korkeakoulu, Teletekniikka

Topic: Dynamic multicast connections

Eija-Liisa Kasesniemi

Joensuun Yliopisto, Perinteen tutkimus

Topic: 160 merkin kulttuuri: suomalaisnuorten tekstiviestintä (SMS Culture of the Finnish Teenagers)

Marcos Katz

Oulun yliopisto, Tietoliikennela boratorio, CWC

Topic: Advanced Code Synchronization Methods for Future Wireless Communications Systems

Kimmo Tapio Kettunen

Teknillinen korkeakoulu, Signaalinkäsittely

Topic: Applications of Probabilistic Inference in Wireless Communications

Marianne Kinnula

Oulun yliopisto

Topic: Riskienhallinta ohjelmistoalihankinnassa

Kalle Heikki Tuomas Kivekäs

Teknillinen korkeakoulu, Piiritekniikka

Topic: Adaptiiviset sekoittajat integroituihin suoramuunnos-vastaanottimiin

Jouni Knuuttila

Teknillinen korkeakoulu, Materiaalifysiikka

Topic: RF-taajuuksilla toimivien pintaakustisten resonaattorien ja korkeataajuussuodattimien kuvantamiseen soveltuvan laserinterferometrin jatkokehittely sekä hyödyntäminen RF-komponenttien tutkimukseen

Marko Kosunen

Teknillinen korkeakoulu, Piiritekniikka

Topic: Ohjelmoitavat digitaalisuodattimet, polynomi, interpolaattorit ja keskitaajuusalueen D/A muuntimet ohjelmoitaviin lähettimiin

Esa Kunnari

Oulun yliopisto, Tietoliikennelaboratorio, CWC

Topic: Lähetysdiversiteetin ja tila-aika-koodauksen, sekä lähettimellä tapahtuvan signaalinkäsittelyn käyttömahdollisuuksien tutkiminen langattomien järjestelmien tiedonsiirron suorituskyvyn ja luotettavuuden parantamiseksi

Mika Laiho

Teknillinen korkeakoulu, Piiritekniikka

Topic: Integroidut sovelluskohtaiset rinnakkaisprosessorit

Tommi Laitinen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Matkapuhelinten säteilyn lähikenttämittaukset

Saku Lehtonen

Teknillinen korkeakoulu, Materiaalifysiikka

Topic: Taajuusalueella 5–10 GHz toimivien SAW-resonaattorien ja -suodattimien suunnittelu, valmistus ja karakterisointi

Juha Markus Lento

Teknillinen korkeakoulu, Fysiikka

Topic: Pistevirheet seospuolijohteessa

Jan Lindström

Helsingin yliopisto, Tietojenkäsittely

Topic: Concurrency Control in Real-Time Databases

Tapio Lokki

Teknillinen korkeakoulu, Multimedia

Topic: Reaaliaikaisen vuorovaikutteisen auralisaation evaluointi kuuntelukokein

Pavel Loskot

Oulun yliopisto, Tietoliikennelaboratorio, CWC

Topic: Space-time Processing for Adaptive Wireless Multicarrier Systems

Marko Luoma

Teknillinen korkeakoulu, Teletekniikka

Topic: User/Mobility/ Quality Management in Differentiated Services

Riku Matti Mäkinen

Tampereen teknillinen korkeakoulu, Elektroniikka

Topic: Sähkömagneettisten kenttien numeerinen ratkaisu FDTD-menetelmällä

Jani Mäntyjärvi

Georgia Institute of Technology, USA

Topic: Context Awareness and Applications in Ubiquitous Computing and Communication Environment

Johanna Meltaus

Teknillinen korkeakoulu, Materiaalifysiikka

Topic: Korkean lämpötilan suprajohtavat suodattimet ja bolometrit

Jari Antero Nikara

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Rinnakkaisarkkitehtuurien ja niiden WDCMA -sovelluten tutkimusta

Mauri Nissilä

Oulun yliopisto, Sähkötekniikan osasto / VTT Elektroniikka

Topic: Optimaaliset ja alioptimaaliset synkronointimenetelmät häipyvässä monitiekanavassa

Eeva Silja Nyberg

Teknillinen korkeakoulu, Teletekniikka

Topic: Palvelunlaatu-mekanismien kvantifiointi paketti- ja vuositasolla palveluntarjoajan ja käyttäjän näkökulmasta kriteerinä reiluus, optimaalisuus ja hyöty

Kalle Ilmari Palomäki

Tampereen teknillinen korkeakoulu, Digitaali- ja tietokonetekniikka

Topic: Laskennallisesti vaativien signaalinkäsittely-algoritmien matalahehoku-lutuksiset laitteistototeu-tukset

Chengyuan Peng

Teknillinen korkeakoulu, Tietotekniikan osasto, Tietoliikenneohjelmistojen ja multimedian laboratorio

Topic: Future TV project

Ari Tapio Pouttu

Oulun yliopisto, Tietoliikennelaboratorio, CWC

Topic: Kanavakoodaus spektrin käytön kannalta tehokkaiden taajuus-hyppivien mMFSK ja amMFSK modulaatio-menetelmien yhteydessä

Markku Pukkila

Teknillinen korkeakoulu, Signaalinkäsittely

Topic: Receiver Enhancements for TDMA Mobile Radio systems

Jaan Inkeri Rantanen

Tampereen teknillinen korkeakoulu, Elektroniikka

Topic: Älyvaate osana tietoyhteiskuntaa

Tero Rissa

Tampereen teknillinen korkeakoulu & Microelectronics Systems Research Bournemouth University

Topic: Description and design of dynamically reconfigurable systems

Antti-Veikko Rosti

The Speech, Visio and Robotics Group in University of Cambridge, UK

Topic: Segment modelling for speech recognition

Jussi Hermanni Ryynänen

Teknillinen korkeakoulu, Piiritekniikka

Topic: Radiotaajuusosien integrointi multimode vastaanottimiin

Jussi Pekka Säily

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Millimetri- ja alimillimetriaaltoalueen antennimittaustekniikan kehittäminen

Sami Antero Siltala

Oulun yliopisto, Tieto-liikennelaboratorio, CWC

Topic: Turbokoodauksen soveltaminen häiriölliseen tiedonsiirtokanavaan CDMA- ja hajaspektri-järjestelmissä

Kati Marika Sulonen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Matkaviestin-välineiden antennien suorituskyvyn optimointi radiojärjestelmissä

Lauri Sumanen

Teknillinen korkeakoulu, Piiritekniikka

Topic: Matkaviestinten tarkat, laajakaistaiset analogia-digitaali-muuntimet

Pasi Suvikunnas

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Monielementtisten antennien optimointi WCDMA-järjestelmään

Roope Takala

NRC Helsinki

Topic: Product Concept Creation and Evaluation

Jani Tuisku

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Adaptive Methods for Audio Coding

Djordje Tujkovic

Oulun yliopisto, Tietoliikennelaboratorio, CWC

Topic: Space-Time Coding for Future Wide-Band Radio Systems

Riitta Väänänen

Teknillinen korkeakoulu, Akustiikka IRCAM

Topic: Tila-akustiikan mallintaminen virtuaalitodellisuus- ja multimediasysteemeissä

Mikko Valkama

Tampereen teknillinen korkeakoulu, Tietoliikennetekniikka

Topic: Kehittyneet signaali-käsittelymenetelmät joustavissa tietoliikennevasta-anottimissa

Sami Viitanen

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Intelligent Methods for Automatic Detection, Classification and Tracking of Ocean Targets

Seppo Virtanen

Turku Centre for Computer Science

Topic: Taco-tools for Application-specific HW/SW Codesign

Joel Vuolevi

Oulun yliopisto, Elektroniikka

Topic: RF tehovahvistimen tehonkulutuksen ja lineaarisuuden optimointi

Ye Wang

University of Cambridge, Department of Auditory Perception, UK

Topic: Audio Coding Methods -Analysis, Development and Optimization

Nokia Scholarships 1999

Keijo Heljanko

Teknillinen korkeakoulu, Tietojenkäsittelyn laboratorio

Topic: Mallintarkastus ohjelmistojärjestelmille

Katri Honkanen

Teknillinen korkeakoulu / Eindhoven University of Technology, the Netherlands

Topic: Suurnopeuselektroniikan uudet komponentit

Kari Hooli

Oulun Yliopisto, Tietoliikennelaboratorio

Topic: Kanavakorjaimien soveltaminen WCDMA-järjestelmissä

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Teknillinen korkeakoulu, Tietotekniikan osasto

Topic: Advanced Transceiver Techniques for WCDMA Systems

Mikko Huttunen

Teknillinen korkeakoulu, Informaatiotekniikan laboratorio

Topic: Laajakaistaisenesi-särömenetelmän tutkiminen

Esa Hyytiä

Teknillinen korkeakoulu, Teletekniikan laboratorio

Topic: Täysoptisten tietoliikenneverkkojen liikenneongelmat

Aki Härmä

Teknillinen korkeakoulu, Akustiikan ja äänenkäsittelytekniikan laboratorio / Bell Labs, Murray Hill, New Jersey, USA

Topic: Varpatut parametriset menetelmät laajakaistaisen puheen ja audion digitaalisessa pakkaamisessa ja siirrossa

Ikonen Jouni

Lappeenrannan teknillinen korkeakoulu, Tietoliikennetekniikan laboratorio

Topic: Dynamic Load Balancing Strategies for Conservative Distributed Simulation

Riku Jäntti

Teknillinen korkeakoulu, Automaatio- ja systeemitekniikan osasto, Systeemitekniikan laboratorio

Topic: Power Control and Transmission Rate Management in Cellular Networks

Asko Kananen

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto, Piiritekniikan laboratoria / Universidad de Granada

Topic: Epälineaaristen soluverkkojen toteuttaminen CMOS-tekniikalla ja tietoliikennesovellutusten tutkiminen

Kimmo Kansanen

Oulun Yliopisto, Sähkötekniikanosasto, Tietoliikennelaboratorio

Topic: Häiriönpoisto-vastaanotintutkimus

Kantsila Arto

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Oppivat ekvalisointimenetelmät muuttuvavasteisille kanaville

Marcos Katz

Oulun yliopisto, Tietoliikennelaboratorio

Topic: Koodinetsintä WCDMA verkossa

Outi Kivekäs

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Uudet matkaviestin-antenniratkaisut

Anssi Klapuri

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Sisältöä kuvaavan tiedon tuottaminen äänisignaaleista

Jouni Knuuttila

Teknillinen korkeakoulu, Teknillisen fysiikan ja matematiikan laitos, Materiaalifysiikan laboratorio

Topic: RF-taajuuksilla toimivien pinta-akustisten resonaattorien ja korkea-taajuussuodattimien kuvan-tamiseen pystyvän laserin-terferometrin jatkokehittely sekä soveltaminen RF-kom-ponenttien tutkimukseen

Pasi Kolinummi

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos, Tietotekniikan laboratorio

Topic: Neurolaskennan laitteistototeutukset

Julius Koskela

Teknillinen korkeakoulu, Teknillisen fysiikan ja matematiikan laitos, Materiaalifysiikan laboratorio

Topic: Pinta-akustisten resonaattoreiden ja korkeataajuussuotimien mallinnus- ja simulaatiomenetelmien tutkimukseen

Marko Kosunen

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto, Piiritekniikan laboratorio

Topic: Laajakaistaisen CDMA-radiojärjestelmän digitaalisen signaalinkäsittelylohkojen toteuttaminen CMOS-teknologialla

Kimmo Kuusilinna

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Dataliitynnät IP (Intellectual Property) -lohkojen avulla

Tommi Laitinen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Matkapuhelinten säteilyn lähimittaukset

Pasi Lassila

Teknillinen korkeakoulu

Topic: Computational Methods for Communication Network Performance Analysis

Lindfors Saska

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto, Piiritekniikan laboratorio

Topic: Integroidut matalan käyttöjännitteen analogiasuodattimet ja A/D-muuntimet

Sami Myllymäki

Oulun yliopisto, Mikroelektroniikan laboratorio

Topic: MEMS in Front End Components

Mauri Nissilä

Oulun yliopisto, Sähkötekniikan osasto

Topic: Optimaaliset ja alioptimaaliset synkronointimenetelmät häipyvässä radiokanavassa

Sari Peltonen os.Siren

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Output Distributional Influence Functions

Chengyuan Peng

Teknillinen korkeakoulu, Tietotekniikan osasto, Tietoliikenneohjelmistojen ja multimedian laboratorio

Topic: Future TV

Ari Pouttu

Oulun yliopisto, Tietoliikennelaboratorio

Topic: Kanavakoodaus spektrin käytön kannalta tehokkaiden taajuushyppivien mMFSK ja amMFSK modulaatiomenetelmien yhteydessä

Juha Pyhtilä

Oulun yliopisto, Tietoliikennelaboratorio

Topic: Digitaalisten signaalien

optimivastaanotosta epälineaarisissa kanavissa ja vastaanottimissa

Harri Rapakko

Oulun yliopisto, Sähkötekniikan osasto

Topic: SSCT-AD-Converter

Antti-Veikko Rosti

The Speech, Visio and Robotics Group in University Engineering Department, UK

Topic: Puheentunnistuksen jatko-opinnot Cambridgessä

Teemu Saarelainen

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Objektipohjainen audiolähteiden kaappaus

Panu Somervuo

Teknillinen korkeakoulu, Informaatiotekniikan laboratorio, Neuroverkkojen tutkimusyksikkö

Topic: Puheentunnistus teknologian kehittäminen

Kari Rainer Stadius

Teknillinen korkeakoulu, Piiritekniikan laboratorio

Topic: Suurtaajuisten integroitujen oskillaattorien kehittäminen

Mikko Tammi

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Enhanced Waveform Interpolation Speech Coder

Tomi Teppo

Tampereen teknillinen korkeakoulu, Elektroniikan laitos

Topic: Eri piiriteknologioiden tutkimus suurtaajuuselektroniikassa

Tero Tolonen

Teknillinen korkeakoulu, Akustiikan ja äänenkäsittelytekniikan laboratorio

Topic: Äänilähdemallit ja auditoriset äänisignaalien analyysimenetelmät

Matti Tommiska

Teknillinen korkeakoulu, Signaalinkäsittely- ja tietokonetekniikan laboratorio

Topic: Reconfigurable Computing in Communications Systems

Tuukka Turunen

Oulun yliopisto, Sähkötekniikan osasto, Tietokonetekniikan laboratorio

Topic: Service Connective in Mobile Augmented Reality

Samuli Visuri

Teknillinen korkeakoulu, Sähkö- ja tietoliikenne-tekniikan osasto, Signaalinkäsittelyn ja tietokonetekniikan laboratorio

Topic: Nonparametric Statistics in Array and Communications Signal Processing

Joel Vuolevi

Oulun yliopisto, Sähkötekniikan osasto, Elektroniikan laboratorio

Topic: Henkilökohtainen apuraha tehovahvistimiin liittyvää väitöskirjaa varten

Vuokka Vuori

Teknillinen korkeakoulu, Informaatiotekniikan laboratorio

Topic: Oppivat menetelmät käsinkirjoitettujen merkkien reaaliaikaisessa tunnistuksessa

Awards, Grants and Scholarships

Mikko Eljas Waltari

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto, Piiritekniikan laboratorio

Topic: Tietoliikennelaitteiden nopeiden A/D -muuntimien toteutus CMOS-tekniikalla

Ye Wang

University of Cambridge, Department of Auditory Perception, UK

Topic: Time-Frequency Domain Masking Modelling of Monophonic Audio Signal

Nick Zacharov

Teknillinen korkeakoulu, Receiving institution: University of Aizu, Spatial Media Group, Japan

Topic: Psychometric Research of Multichannel and 3D Sound System

Nokia Scholarships 1998

Rami Ahola

Teknillinen korkeakoulu, Piiritekniikka

Topic: Integroidut UHF-alueen taajuussyntetisaattorit

Hassan M. El Sallabi

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Development of Propagation Models for Mobile Communication with Antenna Array – Development of Mathematical Relations Between Uplink & Down Link Signals in Mobile Communication with Basestation Antenna Array

Kari Hooli

Oulun yliopisto, Tietoliikennelaboratorio

Topic: Kanavakorjaimien soveltaminen DS-CDMA-järjestelmissä

Mikko Huttunen

Teknillinen korkeakoulu, Informaatiotekniikan laboratorio

Topic: Laajakaistaisen esisärömenetelmän tutkiminen

Jouni Ikonen

Lappeenrannan teknillinen korkeakoulu, Tietoliikennetekniikan laboratorio

Topic: Tehdä rinnakkaissimuloinnin mahdollisuuksia tunnetuksi

Mika Ilvesmäki

Teknillinen korkeakoulu

Topic: Oppivan vektorikvantisaation hyödyntäminen Internet-liikenteen luokittelussa

Juhani Juntti

Oulun yliopisto

Topic: Häiriönvaimennus kanavakoodatussa DS-hajaspektritekniikassa

Kimmo Kalliola

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Uusien radiojärjestelmien älykkäät antennit

Risto Kaunisto

Teknillinen korkeakoulu

Topic: Integration of High Frequency Active Filters

Esa Kemppinen

Oulun yliopisto

Topic: Determination of the Permittivity of Some Dielectrics in the Microwave and Millimeter Wave Region

Atte Kinnula

Oulun yliopisto

Topic: SW Process Engineering in a Multi-Site Environment

Jarmo Kivinen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Radioaaltojen etenemismittausjärjestelmä ja radiokanavan laajakaistainen mallitus taajuuksille 2–60 GHz tulevaisuuden radiojärjestelmiä varten

Anssi Petteri Klapuri

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Sisältöä kuvaavan tiedon tuottaminen äänisignaaleista

Harri Klapuri

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Hardware-Software Codesign Using Formal Specification

Pasi Kolinummi

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos, Tietotekniikan laboratorio

Topic: Neurolaskennan laitteistoteutukset

Konsta Koppinen

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Epälineaariset ennustavat suodattimet

Kimmo Kuusilinna

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Dataliitynnät IP (Intellectual Property) -lohkojen avulla

Juha-Pekka Laine

MIT, USA

Topic: Integrated Microsphere Resonator Devices

Saska Lindfors

Teknillinen korkeakoulu, Sähkö- ja tietoliikennetekniikan osasto, Piiritekniikan laboratorio

Topic: Integroidut matalan käyttöjännitteen analogiasuodattimet ja A/D muuntimet

Matti Luukkainen

Helsingin yliopisto, Tietojenkäsittelytieteen laitos

Topic: Aikakriittisten rinnakkaisjärjestelmien mallinnus ja analysointi (Modelling and Analysis of Time Critical Concurrent Systems)

Jukka Mannerkoski

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Linear Prediction in Blind Equalization

Jani Ollikainen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Matkaviestinten uudet antenniratkaisut

Harri Rapakko

Oulun yliopisto, Sähkötekniikan osasto

Topic: SSCT- AD-muuntimet

Jarkko Antero Routama

Teknillinen korkeakoulu

Topic: Ohjelmoitavan WCDMA Suoramuunnosvastaan-ottimen suunnittelu

Vesa Ruoppila

Tampereen teknillinen korkeakoulu, Signaanlinkäsittelyn laitos

Topic: Visiting Researcher Position in the University of Sherbrooke, Canada

Janne Saarela

INRIA

Topic: Intelligent Publishing with Metadata

Saarinen Ilkka

Oulun yliopisto, CWC

Topic: Reverse Link Feedback Power Control in DS/ CDMA Systems

Kari Rainer Stadius

Teknillinen korkeakoulu, Piiritekniikan laboratorio

Topic: Suurtaajuisten integroitujen oskillaattorien kehittäminen

Jarmo Takala

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: DSP-muunnosalgoritmien rinnakkaiset toteutukset

Mikko Tammi

Tampereen teknillinen korkeakoulu, Signaalinkäsittelyn laitos

Topic: Wavelet-muunnos waveform interpolation -puhekooderissa

Jussi Vesma

UCSB, ECEL

Topic: Polynomipohjaisten interpolaatiosuodattimien käyttö digitaalisten vastaanottimien symboli-synkronointiin

Mikko Eljas Waltari

Teknillinen korkeakoulu, Sähkö- ja tietoliikenne-tekniikan osasto, Piiritekniikan laboratorio

Topic: Tietoliikennelaitteiden nopeiden A/D muuntimien toteutus CMOS-tekniikalla

Mika Ylianttila

Oulun yliopisto

Topic: WiLU (Wireless Lan for UMTS)

Nokia Scholarships 1997

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Teknillinen korkeakoulu, Piiritekniikka

Topic: Integroidut UHF-alueen taajuussyntetisaattorit

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Teknillinen korkeakoulu, Radiolaboratorio

Topic: Laajakaistaisen radioaaltojen mittausmenetelmän kehittäminen

El-Sallabi Hassan

Teknillinen korkeakoulu

Topic: Mobile Communication with Basestation Antenna Array

Tiina Heikkinen

Helsingin yliopisto

Topic: Dynamic Radio Resourcing and Prizing

Sami Hienonen

Teknillinen korkeakoulu

Topic: Planaarinen vaiheohjattu antenni satelliittitelevisiolähetysten vastaanottoon

Xing Hongnian

Tampereen Teknillinen korkeakoulu, Tietoliikennetekniikka

Topic: The study of OFDM Systems for Mobile Communications

Mauri Honkanen

Teknillinen korkeakoulu

Topic: Epälinineaaristen komponenttien mallinnus ja merkitys laajakaistaisessa matkaviestin järjestelmässä

Jyri Huopaniemi

Teknillinen korkeakoulu / Stanford, USA

Topic: Virtuaaliakustiikan toteutus multimediatekniikassa

Heikki Huttunen

Tampereen teknillinen korkeakoulu, Signaalin käsittely

Topic: Optimaalisten epälineaaristen suodinten suunnittelu menetelmät

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Tampereen teknillinen korkeakoulu, Signaalin käsittely

Topic: Langattomien multimediajärjestelmien laitteistototeutus

Juhani Juntti

Oulun yliopisto, Tietoliikenne

Topic: Häiriönvaimennus kanavakoodatussa DS-hajaspektri järjestelmässä

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Topic: Uusien radiojärjestelmien älykkäät antennit

Risto Kaunisto

Teknillinen korkeakoulu, Piiriteknologia

Topic: Monolithic Radio Frequency Active Filters

Jarmo Kivinen

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Topic: Radioaaltojen etenemismittausjärjestelmä ja radiokanavan laajakaistainen mallitus taajuuksille

2-60GHz tulevaisuuden radiojärjestelmiä varten

Konsta Koppinen

Tampereen teknillinen korkeakoulu, Signaalin käsittely

Topic: Epälineaariset ennustavat suodattimet

Petri Korpisaari

Tampereen teknillinen korkeakoulu, Signaalin käsittely

Topic: Oppivat menetelmät adaptiivisessa mallintamisessa

Seppo Kuusisto

Tampereen teknillinen korkeakoulu, Signaalin käsittely

Topic: Application of Predictive Minimum Description Length Principle in Classification Trees

Juha Laurila

VUT, ICRE

Topic: Adaptiivisten antennien signaalin-käsittelymenetelmien kehittäminen

Mika Loukola

Teknillinen korkeakoulu

Topic: Introducing Quality of Service to IP Packet Forwarding

Jukka Neejärvi

Helsingin yliopisto, Oikeustiede

Topic: Patent and Copyright Protection of Software/ Programs

Jani Ollikainen

Teknillinen korkeakoulu, Radiolaboratorio

Topic: Matkaviestinten uudet antenniratkaisut

Aarno Pärssinen

Teknillinen korkeakoulu, Piiriteknologia

Topic: Integration Techniques of Modern Radio Receivers

Jaripekka Salminen

Teknillinen korkeakoulu, Tietojenkäsittely

Topic: Uusien multimediapalvelujen sovellusteknologia

Anna-Mari Seppänen

Oulun yliopisto, Tietoliikenne

Topic: Mahdolliset parannukset W-CDMA:n downlinkin vastaanottimessa

Jari Vallström

Oulun yliopisto, Tietoliikenne

Topic: Inner System Roaming between a Cellular Network and a Wireless Local Area Network

Jussi Vesma

UCSB, ECEL

Topic: Tutkijavierailu University of California Santa Barbara

Polynomipohjaisten suotimien soveltamisesta digitaalisiin vastaanottimiin

Jarkko Vuori

Teknillinen korkeakoulu, Signaalin käsittely

Topic: Optimization of Signal Processing Implementations in Telecommunication Systems

Nokia Scholarships 1996

Päivi Haapala

Teknillinen korkeakoulu

Topic: Matkapuhelimen uudet antenniratkaisut

Jari Iinatti

Oulun yliopisto

Topic: Epälineaarinen signaalinkäsittely

Markku Juntti

Oulun yliopisto

Topic: Multiuser Demodulation for DS-CDMA Systems in Fading Channels

Juha Karvanen

Teknillinen korkeakoulu

Topic: Adaptive Methods for Score Function Modeling in Blind Source Separation

Mika Klemettinen

Helsingin yliopisto

Topic: Tietämyksen muodostuminen televerkon datasta

Timo O. Korhonen

Teknillinen korkeakoulu

Topic: Measuring and Estimating Instantaneous Wideband Radio Channel by Regularised Deconvolution

Oskari Koskimies

Helsingin yliopisto

Topic: Liikkuvuudesta tietoiset ohjelmistot

Juha-Pekka Laine

University of Arizona

Topic: Optiset vahvistinrakenteet tietoliikenteessä

Harri Lampinen

Tampereen teknillinen korkeakoulu

Topic: Sovelluskohtaiset integroidut AD piirit

Matti Latva-Aho

Oulun yliopisto

Topic: CDMA vastaanottimen synkronointi

Esa Malkamäki

Teknillinen korkeakoulu

Topic: Koodattu diversiteetti lohkohäipyvässä kanavassa

Aarno Pärssinen

Teknillinen korkeakoulu

Topic: Direct Conversion Receivers in Wide-Band Systems

Tino Pyssysalo

Oulun yliopisto

Topic: Tosiaikainen hajautettu keinotodellisuus

Pekka Ranta

Teknillinen korkeakoulu

Topic: Cochannel Interference Cancellation in the GSM System

Kristian Rauhala

UCSD

Topic: Langaton ATM

Jukka Rinne

Tampereen teknillinen korkeakoulu

Topic: Monikantoaalto-järjestelmien suorituskyky-analyysi

Janne Roos

Teknillinen korkeakoulu

Topic: Epälineaaristen elektronisten piirien analyysimenetelmät

Jaripekka Salminen

Teknillinen korkeakoulu

Topic: Uusien multimediapalvelujen sovellusteknologia

Sari Siren

Tampereen teknillinen korkeakoulu

Topic: Epälineaarinen signaalinkäsittely

Heikki Valmu

Teknillinen korkeakoulu

Topic: Antennien keino-tekoiset keilanmuodostus-menetelmät

Jari Yli-Hietanen

Tampereen teknillinen korkeakoulu

Topic: Tulosuunnan estimointi 3-ulotteisessa sensorijärjestelmässä

Nokia Scholarships 1995

Päivi Haapala

Teknillinen korkeakoulu

Topic: Mob antennit

Taneli Harju

Teknillinen korkeakoulu

Topic: Signaalin käsittely

Heikki Huttunen

Tampereen teknillinen korkeakoulu

Topic: Signaalinkäsittely

Hannu Jokinen

Teknillinen korkeakoulu

Topic: APLAC

Kari Kärkkäinen

Oulun yliopisto

Topic: CDMA

Seppo Kuusisto

Tampereen teknillinen korkeakoulu

Topic: Signaalin ja kuvan käsittely

Jaakko Lähteenmäki

Teknillinen korkeakoulu

Topic: Radioaaltojen eteneminen

Harri Lampinen

Tampereen teknillinen korkeakoulu

Topic: Digitaali ja tietokonetekniikka

Juha Laurila

VUT, ICRE

Topic: Älyantennit

Aarno Pärssinen

University of California Santa Barbara

Topic: RF Integration

Risto-Pekka Salmio

Teknillinen korkeakoulu

Topic: Opt. Komp.

NOKIA FOUNDATION   Awards, Grants and Scholarships

Tomas Sehm

Teknillinen korkeakoulu

Topic: Radiotekniikka antennit

Jaakko Talvitie

Oulun yliopisto

Topic: Wideband Radio Channel Measurement, Characterisation and Modelling for Wireless Local Loop Applications

Timo Tarhasaari

Tampereen teknillinen korkeakoulu

Topic: Teoreettinen sähkötekniikka

Marko Turpeinen

Teknillinen korkeakoulu
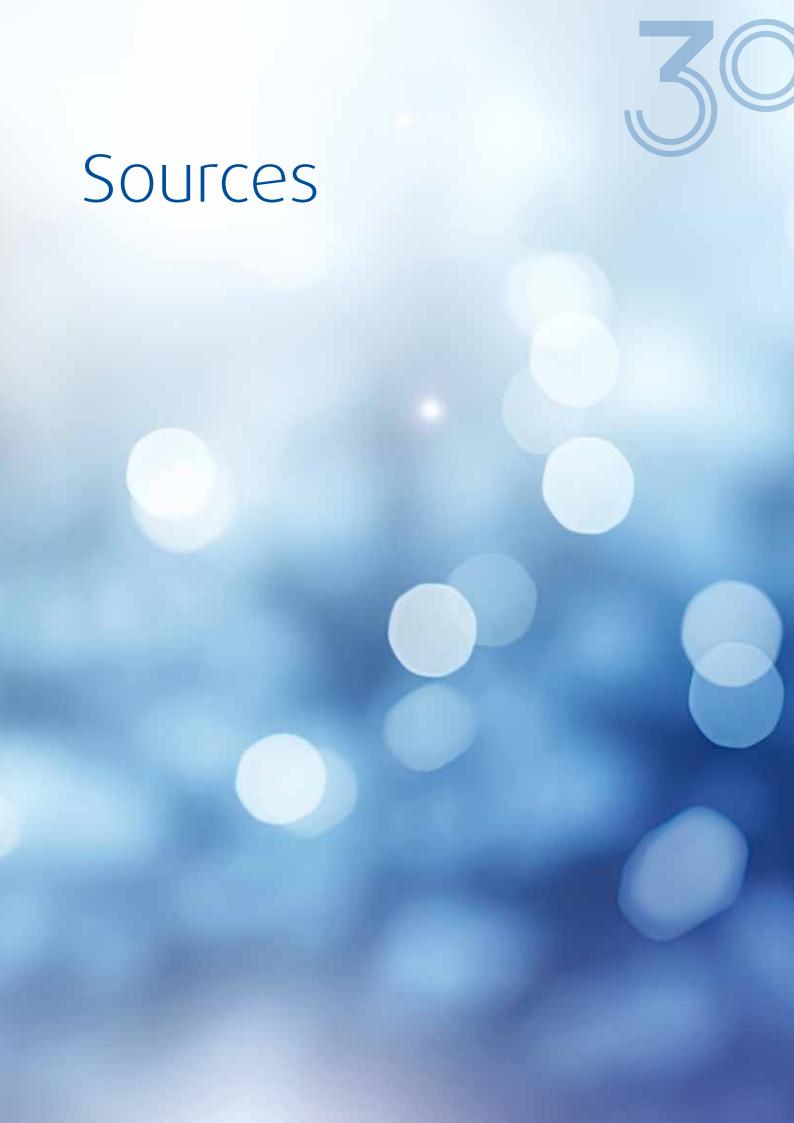
Topic: Tietojenkäsittelyoppi

Jouko Vankka

Teknillinen korkeakoulu

Topic: Tietotekniikka

Jari Yli-Hietanen

Tampereen teknillinen korkeakoulu

Topic: Signaalinkäsittely

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