

Curriculum vitæ

Full name and date

Surname, given names: Laakso, Ilkka Matti Mikael
Gender: male
Date of writing the CV: 6.4.2017



Date and place of birth, nationality, current residence

Date of birth: 29.9.1982
Place of birth: Helsinki
Nationality: Finland
Current residence: Aleksis Kiven katu 4-8 B 90, 00500 Helsinki, Finland
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Education and degrees awarded

Degree, institution, major subject, date of graduation:

Doctor of Science (Technology), Aalto University, Electromagnetics, 7.2.2011
Licentiate of Science (Technology), Aalto University, Electromagnetics, 15.12.2009
Master of Science (Technology), Helsinki University of Technology, Electromagnetics and circuit theory, 18.6.2007

Current position

Assistant professor (Tenure track)

Employer and place of work: Department of electrical engineering and automation, Aalto University, Finland
Start date: 9/2015

Previous work experience

Department of computer science and engineering, Nagoya Institute of Technology, Japan. Positions:

Research associate professor: 4/2014–7/2015

Research assistant professor: 9/2013–3/2014

Post-doctoral researcher (partly funded by Academy of Finland): 04/2011–08/2013

Department of radio science and engineering, Aalto University, Finland. Positions:

Research engineer (doctoral student): 07/2007–03/2011

Research assistant (summer trainee and MSc thesis writer): 06/2006–06/2007

Awards, prizes and honours

- 22.7.2009 International Symposium on EMC, Kyoto, Japan: Student award
22.9.2010 Asia-Pacific Radio Science Conference, Toyama, Japan: Student paper competition, 3rd Prize
16.11.2011 Nagoya Institute of Technology: Faculty Award for Excellence for contribution to public understanding of heat stroke from engineering viewpoint
29.11.2011 Ericsson Young Scientist Award, Ericsson Japan
20.9.2012 Fundamentals and Materials Society, Institute of Electrical Engineers of Japan: Paper Presentation Award
19.3.2013 IEICE Electronics Society, Electronics Simulation Technology: Excellent paper award (Young scientist)
22.5.2013 URSI Commission B International Symposium on Electromagnetic Theory, Hiroshima, Japan: Young scientist award
15.5.2014 International Symposium on Electromagnetic Compability, Tokyo, Japan: Excellent Paper Award
5.6.2014 IEICE Transactions Best Paper Award: "Fast computational method for human dosimetry due to wireless power transfer with magnetic resonance"

Other academic merits

Committees:

Member of Scientific Expert Group of International Commission on Non-Ionizing Radiation Protection (ICNIRP), since 2017

Member of IEEE International Committee on Electromagnetic Safety (ICES) Technical Committee 95, Secretary of subcommittee SC6: Dosimetry modelling, since 2014

Chairman of working group 'Merging computational and experimental approaches to resolve uncertainties related to electrostimulation threshold' under IEEE ICES SC6, since 2015

Member of Steering committee of URSI Commission B 2013 International Symposium on Electromagnetic Theory, Hiroshima, Japan, 2012–2013

Member of Investigation Committee on Electromagnetic Safety, Institute of Electrical Engineers of Japan, since 2011

Editor:

Associate Editor, IEICE Transactions on Electronics, 2015–2016

Session chairman:

2013 CIGRE 3rd International Colloquium on Electric and Magnetic Fields at Extremely Low Frequencies, Nara, Japan

2014 International Symposium on Electromagnetic Compability, Tokyo, Japan

Reviewer:

Physics in medicine and biology, Brain stimulation, IEEE Transactions on Biomedical Engineering, Bioelectromagnetics, Computational and mathematical methods in medicine, Journal of radiological protection, NeuroImage

Scientific and societal impact of research

Number of international peer-reviewed publications:

51 journal and 23 conference papers

Citation statistics:

[Scopus](#): h-index: 14, number of citations: 505

[Web of Science](#): h-index: 12, number of citations: 388

[Google scholar](#): h-index: 16, number of citations: 674

Research featured in media:

- 9–10.8.2011 Research about computational modelling of heat stroke in children featured in national television programmes of TBS and Asahi broadcasting companies (see [10] in the publication list, [video 1](#), [video 2](#))
- 7.1.2013 Chuunichi Shinbun (5th largest newspaper in Japan): Front page article about the development of a fast computational method for improving the accuracy of transcranial magnetic stimulation [16], [link](#)
- 26.8.2014 Asahi Shinbun (2nd largest newspaper in Japan): Article about a computational method for targeting non-invasive nerve stimulation with applications in clinical diagnosis [31], [link](#)