

Curriculum Vitae

1. Personal information

Heikkonen, Jukka Veikko, Nationality: Finnish

2. Graduation degrees

Lappeenranta University of Technology, M.Sc eng. 20.2.1991 and Dr.Tech. 25.5.1994.

3. Current position

- Professor, Computer science, University of Turku, 1.10.2008 →

4. Previous positions

- 1.9.2013- 31.5.2015 : Scientific officer, European Commission, Institute for the Protection and Security of the Citizen (IPSC), Unit JRC.G1, Ispra, Italy.
- 16.9.2007- 15.9.2010: Contract Agent Researcher of European Commission, ISPC/JRC, G04 Maritime Affairs, Ispra, Italy.
- 1.8.2005 - 15.9.2007: Senior research scientist, Lab of computational eng. (LCE), Helsinki Univ. of Technology (HUT), Finland.
- 1.8.2000 - 31.7.2005: Academy fellow of the Academy of Finland, LCE, HUT, Finland.
- 1.8.1997 - 31.7.2000: Junior research scientist of the Academy of Finland, LCE, HUT, Finland.
- 1.11.1996 - 31.7.1997: Senior researcher, LCE, HUT, Finland.
- 1.12.1994 - 31.10.1996: Postdoc grant holder, European Commission, JJRC Institute for Systems, Informatics and Safety, Ispra, Italy.
- 24.1.1996 - 1.3.1996: STA Fellow of Ministry of International Trade and Industry of Japan via Agency of Industrial Science and Technology, Mech.Eng.Laboratory, Tsukuba, Japan.
- 1.8.1991 - 30.11.1994: Researcher, Lappeenranta University of Technology, Department of Information Technology, Lappeenranta, Finland. Doctor of technology studies and research.

5. Research funding (only some recent ones)

- Exploration Information System (EIS), Horizon Europe project, 1.4.2022-31.3.2025
- Artificial Intelligence based Virtual Control Room for the Arctic (AI-ARC), H2020 project, 30.9.2021-28.2.2024
- Trafficability Prediction and Route Planning for Forest Machines (TRAM), Academy of Finland, 01.09.2020 - 31.08.2024.
- Sea4value Smarter, Business Finland project, 1.1.2021-31.12.2022
- MAATI - Maaperätiedon kehittäminen (estimating the soil type), financed by Ministry of Agriculture, 1.8.2021-31.7.2022
- AutoPig, financed by Ministry of Agriculture, 1.1.2020-31.12.2022.
- Potentials of big data for integrated territorial policy development in the European growth corridors, 1.5.2018-30.3.2019, European Commission.
- New methods for 3D measuring and analysis for autonomous ships and vehicles, financed by Business Finland, 1.8.2017-31.7.2019
- Advanced computational methodologies on open big data for forest terrain trafficability monitoring and forecasting, Academy of Finland, 1.1.2016-31.12.2017.
- Simulating the effects of competition policy interventions in the EU, financed by DG COMP, European Commission, 1.1.2015-31.5.2015.

6. Experience on supervision and leadership

- Head of the data-analytics cost center at the IT department of UTU
- Head of data-analytics research group

- Supervised 15 PhD. Currently 6 PhD students

8. Teaching

- Lecturer in more than 20 courses in Lappeenranta University of Technology, Helsinki University of Technology and University of Turku.
- Tens of lectures related to AI and data analytics for companies

9. Organizing of scientific conferences.

- Program and organization committee member in a number of conferences/workshops (e.g. ICANN, WITMSE, SCIA, EANN, ...) 1995->, participants varying from 50 to hundreds.
- Organizer of DSGE modelling course workshop, Ispra, Italy, 2013 and 2014. More than 50 participants.

10. Patents and awards

- 1991 Award of the Finnish Engineering Society for innovative engineering from the M.Sc thesis "Digital Image Processing in Convection Flow Analysis."
- Inventor in patents (Finland), 20070407, 20070085 and 20040937.

11. Scientific and academic merits

- Reviewer of many number journal and conference articles.
- Guest editor in 5 scientific journal special issues
- Head of 5 professor selection committees, University of Turku, Finland, 2011-2019.
- Candidate assessments for European Commission scientific officers posts, 2013-2015.
- Pre-examinator or opponent for 15 Phd theses both in Finland and abroad
- Board member of Analytics+ steering committee
- Head teaching and education development group at the Depart. of Future Technologies, UTU, 2017-2019.
- Member of MATTI doctoral program board, University of Turku, Finland
- Member of Regional Advisory Board of Finnish Forest Research Institute, Finland, 2011-2014
- Member of Engineering education development group at UTU, 2019.

11. Memberships of scientific associations

- Member of pattern recognition society of Finland