

## CURRICULUM VITAE

### Full name; Date of CV

Name: Nummenmaa, Jyrki Tapio

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Date of CV: Mar 14th, 2022

### Degrees

- PhD in Computer Science, University of Tampere, 1995
- LicPhil in Mathematics, University of Tampere, 1989
- MSc in Mathematics, University of Tampere, 1989

### Language skills

- Native Finnish, Fluent English, Fluent Spanish, Basic Swedish, Basic German, Elementary Chinese

### Current employment

- Professor of Computer Science, Faculty of Information Technology and Communication Sciences, Tampere University (tenure since 2003 at the previous “Tampereen yliopisto”, the University of Tampere)
- On academic research career Stage IV

### Previous work experience

- Professor, University of Tampere, fixed-term 1.8.1997-31.12.2002, tenure since 1.1.2003
- Assistant professor, University of Tampere, 1.8.1992-31.7.1997
- Researcher, University of Tampere, 1990-1991
- Software analyst, project manager, programmer, Companies at Tampere area, 1984-1987. Working in Information Systems development.
- Research visits abroad (of at least 4 weeks):
  - IT Faculty of Chalmers and Gothenburg University, 2.5.-30.6.2017.
  - Sichuan University, China, 10.10.2012-8.11.2012
  - University of Chile, 1.11.2004-31.12.2004
  - Visiting researcher, 1.8.1991-31.7.1992, University of Edinburgh, Scotland (A Royal Society grant obtained through Academy of Finland)

### Research funding and grants

- Research funding from Academy of Finland’s Strategic Research Council for Ethical AI for the Governance of the Society (ETAİROS), 2019-2022 (I am the consortium PI).
- Research funding related to Intelligent Buildings (“Business Finland” - major Finnish technology research funding body), 2018-2019.
- Participation in multi-disciplinary Academy of Finland project “Voices of Democracy” where we do text analysis and management for parliamentary records and veteran MP’s interviews. One of the main tasks has been identification of narratives.
- Participation in Moniäänisyysmittari (Multi-voice meter), 2021-2022. Media industry research foundation of Finland: We analyse grammatically news articles to identify speakers and to answer the question who gets heard in the media.
- Recently funding from EAKR (European regional funding) related to open data warehousing and currently from the local Centre for Economic Development, Transport and the Environment related to mobile sensor data and cloud services.
- Research funding for UML data management from the Academy of Finland for 2001-2004.

### Research output

- Number of peer-reviewed articles in international journals or conferences proceedings: 101
- Number of other publications: 11

### **Research supervision and leadership experience**

- Leader of Tampere NLP group
- Supervised jointly or alone 5 PhD thesis.
- Currently supervising 3 full-time and 2 part-time PhD students
- Steering group member: *Perspectives in Business Informatics Research (BIR) Conferences*
- Head of *Center for research on Information and Systems*, at the School of Information Sciences, University of Tampere, 2011-2018.
- Tampere University administrative responsibilities: Head of Department of Computer Sciences 2002-2009, Dean of Faculty of Information Sciences, 2007-2009, Member of the Board of the University 2010-2012, Chair of University Collegium since 2014

### **Teaching merits**

- University pedagogy course at the University of Tampere
- Long-term work in curriculum development at the Department of Computer Sciences, University of Tampere
- Courses given and renewed: Relational database theory, Game algorithms, Distributed systems, Distributed transaction management, Computer graphics, Introduction to formal specification, Advanced functional programming, Database programming, Introduction to programming, Basics of information systems and software engineering, Software engineering, Seminars on various topics
- National coordinator for Finnish curricula development in computer science in connection to the Finnish MSc and BSc degree redesign, 2003

### **Awards, prizes and honours**

- The Order of White Rose's First Class Knight Medal given by the President of Finland, 2014
- University of Tampere Science Act Award for work on Traffic Research, 2016

### **Other academic merits**

- Guest professor at the Research Center for Materials Genome Engineering, Sichuan University, China (ongoing)
- Academic coordinator of Digile's China-Finland ICT Alliance Research Forum on Intelligent Sensing and Services in Urban Environment for Traffic and Mobility (ISSUE-TM)
- Invited Keynote speaker in ICIS 2009 (IEEE Int. Conf. on Intelligent Computing and Intelligent Systems), Shanghai, China
- Member of expert group to evaluate 4 degree programs for Centre for Quality Assessment in Higher Education, Lithuania, 2013
- Several times opponent or reviewer of PhD thesis works at various universities in Finland (University of Helsinki, University of Turku, University of Vaasa, Technical University of Tampere, University of Eastern Finland), also abroad: 2013 PhD thesis pre-examination for Kaunas University of Technology, Lithuania, and 2014 opponent at a PhD thesis defence at the IT Faculty of Chalmers and University of Gothenburg.

### **Expert positions in society and other merits related to the societal impact research**

- IOI (International Olympiad of Informatics): Coach of Team Finland 1995-1998 (2 gold, 5 silver, and 5 bronze medals); International Scientific Committee member, 2000-2002; Technical and scientific chair of IOI 2001 competition arranged in Tampere, 2001
- Member of the Big Data working group of the Ministry of Transport and Communications (2014 and onwards)
- Member of the University of Tampere IT Steering Group (Tietohallinnon johtoryhmä), 2003-2006.