

**General**

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Date and place of birth 21.6.1962, Lempäälä, Finland

**Education**

Dec 1992 Doctor of Technology, Helsinki University of Technology (TKK)  
 Major subject in systems and operations research, minor in mathematics

Mar 1990 Licentiate of Technology, TKK  
 Major in systems and operations research, minor in mathematics

Oct 1987 Master of Sciences (Eng.), TKK  
 Major in systems and operations research, minor in computer science

**Positions since 1993**

Jan 2010 –	Aalto University	Professor in Systems Analysis Vice-Head of Department, Aug 2011 –
Nov 2000 – Dec 2009	Helsinki University of Technology Tenured 1.11.2005	Professor in Systems Analysis
Aug 1999 – Oct 2000	as above	Professor in Applied Mathematics
Jan 1999 – Jul 1999	as above	Researcher
Aug 1998 – Dec 1998	as above	Professor in Applied Mathematics
Jan 1997 – Jul 1998	VTT Group for Technology Studies	Senior Researcher
Oct 1994 – Jan 1997	Nokia Research Center	Senior Consultant
Oct 1993 – Sep 1994	Universität Mannheim	Alexander von Humboldt- Fellow
Sep 1993 – Sep 1994	TKK, Systems Analysis Laboratory	Researcher
Jun 1993 – Aug 1993	London Business School	Visiting Researcher

**Research visits**

July 2010 (one month)	Ecole Centrale Paris	Visiting Professor
Jan 2010 (3 weeks)	University of Vienna	Visiting Professor
Feb 2009 – Aug 2009	Université Paris-Dauphine	Visiting Professor
Sep 2008 – Jan 2009	London Business School	Visiting Professor

**Appointments**

Dec 1996 Docent, quantitative methods of economics,  
 Helsinki School of Economics and Business Administration

Feb 1999 Docent, systems analysis, TKK

### Scientific positions of trust

President of the *Finnish Operations Research Society (FORS)*, 1999-2000 and 2010-2011.

Vice-President of FORS 2007-2009, member of the Board since 1999-.

Member of the Board of the *Association of the Parliament Members and Researchers (Tutkijoiden ja kansanedustajien seura, Tutkas)*, 1999-.

European and Middle East regional representative in the *International Activities Committee of INFORMS (The Institute for Operations Research and the Management Sciences)*, 2010-11.

Member of the Management Committee of the *COST Action IC0602 on Algorithmic Decision Theory*, 2008-2011.

Member of the *Finnish Academy of Technology*, 2003-.

Member of the systems analysis section of the *Scientific Advisory Board for Defence*, 2002-.

Vice-President of the section, 2008-.

Member of the Steering Group of the *Graduate School on Systems Analysis, Decision Making and Risk Management*, 2001-.

Member of the Steering Group of *Helsinki Institute of Science and Technology Studies (HIST)*, 2004-.

Vice-President 2008-.

Member of the Advisory Board of *VTT Technology Studies*, 2002-2005.

Member of the *High Level Expert Group on Technology Foresight*, appointed by DG Research of the European Commission, 2000-01.

Member of the Scientific Advisory Group of the *Technological Scenarios Programme* at the Systems Analysis Department, RISOE Research Institute, Roskilde, Denmark, 2001-02.

### Awards and prizes

INFORMS (The Institute for Operations Research and the Management Sciences) *Decision Analysis Society's 2005 Best Student Paper* awarded for "Contingent Portfolio Programming for the Management of Risky Projects", co-authored with Janne Gustafsson.

Finalist in the competition for *INFORMS Decision Analysis Society's 2007 Practice Award* with a case study "Integrated Multi-Criteria Budgeting for Maintenance and Rehabilitation Policies at the Finnish Road Administration", presented with Pekka Mild.

### Editorial responsibilities

Editor-in-Chief of *EURO Journal on Decision Processes*, a journal established by the Association of European Operational Research Societies in 2011 (first issue to appear in 2013).

Associate Editor of *Decision Analysis* (2007-2010), a journal established by the INFORMS Decision Analysis Society in 2004.

Member of the Editorial Boards of *Decision Analysis* (2011-), *International Journal of Information Technology and Decision Making* (2002-), *International Journal of Foresight and Innovation Policy* (2004-), *Intelligent Decision Technologies* (2007-), *The Open Operational Research Journal* (2007-), *IEEE Transactions on Engineering Management* (2010-).

Regular referee for a large range of international journals in decision analysis, decision support systems, foresight methodologies, innovation management (incl. *Management Science, Operations Research, European Journal of Operational Research, Research Policy, Journal of the Operational Research Society, Technological Forecasting and Social Change, Journal of Forecasting, International Journal of Forecasting, Journal of Multi-Criteria Decision Analysis, Decision Sciences, International Journal of Technology Management, Group Decision and Negotiation*).

### Scientific Conferences

Member of the Programme Committee of *Group Decision & Negotiation 2012 (GDN2012)*, May 2012, Recife, Brazil.

Member of the International Committee of the *2012 International Conference on e-Commerce, e-Administration, e-Society, e-Education, and e-Technology*, March 2012, Hong Kong, China.

Member of the Conference Committee of the *4<sup>th</sup> International Seville Conference on Future-Oriented Technology Analysis (FTA)*, May 2011, Sevilla, Spain.

Member of the Programme Committee of *Group Decision & Negotiation 2011 (GDN2011)*, June 2011, Amman, Jordania.

Chairman of the Programme Committee of the *Aalto Event on Science and Technology in Society*, August 2011, Helsinki, Finland.

Member of the International Program Committee of the 2<sup>nd</sup> *KES International Symposium on Intelligent Decision Technologies (IDT'10)*, July 2010, Baltimore, USA.

Member of the International Scientific Programme Committee of the 2<sup>nd</sup> *International Conference on Applied Operational Research (ICAOR'10)*, August 2010, Turku, Finland.

Member of the Program Committee of *Group Decision & Negotiation 2010 (GDN2010)*, July 2010, Delft, the Netherlands.

Member of the Programme Committee of the 1<sup>st</sup> *International Conference on Algorithmic Decision Theory (ADT2009)*, October 2009, Venice, Italy.

Member of the Scientific Committee of the 4<sup>th</sup> *European Conference on Technology Management (EuroMOT) 2009*, September 2009, Glasgow, UK.

Member of the International Program Committee of *Intelligent Decision Technologies (IDT'09)*, April 2009, Himeji, Japan.

Member of the International Committee of the *2010 International Conference on e-Commerce, e-Administration, e-Society, and e-Education (e-CASE 2010)*, January 2010, Macau.

Member of the International Committee of the *2009 International Conference on e-Commerce, e-Administration, e-Society, and e-Education (e-CASE 2009)*, January 2009, Singapore.

INFORMS Decision Analysis Society sub-stream co-organizer in collaboration with Prof. Don N. Kleinmuntz at the 18<sup>th</sup> *Triennial Conference of the International Federation of Operational Research Societies (IFORS)*, July 2008, Johannesburg, South Africa.

Vice-President of the Organization Committee of the 67<sup>th</sup> *meeting of the European Working Group Multiple Criteria Decision Aiding*, April 2008, Rovaniemi, Finland.

Invited opening plenary speaker at the 15<sup>th</sup> *Mini-EURO Conference Managing Uncertainty in Decision Support Modelling*, Coimbra, Portugal, September 2004.

Member of the Scientific Committee and Technological Futures Analysis Methods Working Group for the *EU-US Scientific Seminar on New Technology Foresight, Forecasting & Assessment Methods*, Seville, 13-14 May 2004.

### **Evaluation of Candidates for Awards and Academic Positions**

Member of the jury of the EURO Doctoral Dissertation Award (EDDA) of the Association of European Operational Research Societies (EURO), 2012.

Evaluation of candidates for appointment as Senior Lecturer in computer and systems sciences, with specialization in systems analysis, Stockholm University, 2011.

Evaluation of candidates for appointment as Professor in technology foresight and innovation, the Technical University of Denmark (DTU), 2011.

Evaluation of candidates for appointment as Professor in military technology, National Defence University, Finland, 2011.

Evaluator of candidates for appointment as Senior Lecturer in computer and systems sciences, with specialization in systems analysis, especially mathematical and statistical modelling within the energy sector, Stockholm University, 2011.

Member of the jury of the European Doctoral Dissertation Award (EDDA) of the Association of European Operational Research Societies (EURO), 2010.

Evaluator of Dr. Aron Larsson for appointment as Associate Senior Lecturer in computer and systems sciences, with a specialization in computer-aided decision support in society, Stockholm University 2010.

Evaluator of the achievements of Dr. Afzal Siddiqui for promotion to Senior Lecturer at the University Collage of London (UCL), 2010.

Evaluator of candidates for appointment as Senior Lecturer in computer and systems sciences, with specialization in systems analysis, Stockholm University, 2010.

Evaluator of candidates for appointment as Professor in business mathematics, Vaasa University, 2008.

Evaluator of candidates for appointment as Senior Lecturer in computer and systems science with specialization in system analysis, Stockholm University, 2008.

Evaluator of candidates for appointment as Assistant Senior Lecturer in systems analysis at Royal Institute of Technology, Stockholm, 2007.

Evaluator of the qualifications of PhD Henrik Bruun for acting as Professor in environmental protection technology in 2006 (TKK, '05).

Evaluation of the qualifications of PhD Richard Langlais for acting as Professor in environmental protection in 2006 (TKK, '06).

### Examination of Doctoral Theses

External examiner of the Doctor of Business Administration (DBA) Thesis of Alex Koh (Manchester Business School, University of Manchester, '11).

Examiner of the Doctoral Dissertation of Mart Landsberg (Tallinn University of Technology, '08).

Official Opponent in the defence of the Doctoral Dissertation of Jim Idefeldt (Mittuniversitet, '07) and Xiaosong Ding (Mittuniversitet, '05).

Preliminary examiner in the Doctoral Dissertation of Kaj-Mikael Björk (Åbo Akademi University, '06).

Preliminary examiner ('05) and official opponent ('06) in the Doctoral Dissertation of Raimo Voutilainen (Helsinki School of Economics).

Official opponent in the defence of the Licentiate Thesis of Jim Johansson (Mitthögskolan, '04).

### Other Duties

Member of the International Advisory Board of the *Helmholtz-Programme on Technology, Innovation, and Society* (TIS), 2010-14.

Member of the Management Committee of the EU COST IC0601 Action on *Algorithmic Decision Theory*, 2008-11.

Member of the International Evaluation Panel of the *Helmholtz-Programme on Technology, Society and Innovation*, 2009.

Project manager of *FinnSight 2015*, the joint national foresight exercise of the Academy of Finland and the Finnish Funding Agency for Technology and Innovation (Tekes), 2005-06.

Chairman of the International Evaluation Panel of the German technology foresight exercise *Futur*, 2004-05.

Invited presenter on foresight methodologies at the brainstorming workshop *Shaping the European dimension of foresight*, organized by DG Research, March 2005.

Participant in the EU COST A22 Action on *European Network for Foresight Methodologies*, 2004-.

Guest Editor (in collaboration with Dr. Kerstin Cuhls) of a special issue on technology foresight for *Journal of Forecasting*, 2003.

Reviewer of technology assessment and foresight projects in the EU-funded STRATA-research programme on *Strategic Analysis of Specific Science and Technology Policy Issues*, 2002.

Reviewer of results from the *European Science and Technology Observatory* project on the monitoring of technological forecasting, technology assessment, technology foresight activities in the European Union, 2001.

### Research training

Instructor and supervisor of nine Doctoral Theses (Jukka-Pekka Salmenkaita '04, Janne Gustafsson '05, Simo Makkonen '05, Totti Könnölä '06, Kari Alanne '07, Toni Jarimo '08; Juuso Liesiö '08, Janne Kettunen '09, Ville Brummer '10) and eight Licentiate Theses. Supervisor of about 100 Master's Theses since 2000.

Director of a research group with five doctoral students at Aalto University. Supervisor of three doctoral students employed at other organizations.

Invited lecturer at the *International MCDM Summer School*, Taiwan, July 2006 and Paris, June 2010.

Lecturer of graduate level courses on decision analysis and problem solving (~50 students per year), risk analysis (~100), investment science (~60) and seminar on case studies in operations research (~20-35) which all qualify for doctoral studies.