

JUUSO ILARI LIESIÖ

CURRICULUM VITAE

Contact Information

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Other personal Information

Date of birth 10.06.1980
Marital status Married to Linda Liesiö

Education

- 12/2008 Doctor of Science, Helsinki University of Technology, Faculty of Information and Natural Sciences.
Major: Systems and Operations Research.
Minor: Mathematics.
Subject of doctoral thesis: *“Portfolio Decision Analysis for Robust Project Selection and Resource Allocation”*.
- 12/2006 Licentiate of Science, Helsinki University of Technology, Department of Engineering Physics and Mathematics.
Major: Systems and Operations Research.
Minor: Mathematics.
Subject of master’s thesis: *“Robust Portfolio Optimization in Multi-Criteria Project Selection”*.
- 8/2004 Master of Science, Helsinki University of Technology, Department of Engineering Physics and Mathematics.
Major: Systems and Operations Research.
Minor: Computational Engineering.
Subject of master’s thesis: *“Robust Multicriteria Optimization of Project Portfolios”*.
- 7/2000 – 6/2001 Military service, military rank 2nd Lieutenant in reserve.
- 5/1999 Matriculation examination, Martinlaakso Upper Secondary School, Vantaa.

Work Experience

- 2/2009 – Aalto University, School of science and Technology, Department of Mathematics and Systems Analysis. Teaching Research Scientists in Decision and Risk Analysis.
- 6/2008 – Helsinki University of Technology, Systems Analysis Laboratory.
Project manager of “ForValue”-research project.
- 2/2007 – 12/2007 Helsinki University of Technology, Systems Analysis Laboratory.
Project manager of “Portfolio modeling for the analysis of cost-effective weapon systems”-research project.

- 11/2005 – 5/2008 Helsinki University of Technology, Systems Analysis Laboratory.
Project manager of “Robust portfolio modeling in innovation management”-research project.
- 8/2004 – 10/2005 Helsinki University of Technology, Systems Analysis Laboratory.
Researcher in developing decision support models for project portfolio selection.
- 6/2002 – 8/2004 Helsinki University of Technology, Systems Analysis Laboratory.
Research assistant in development of decision analytic methodology and software, part-time (for 13 months) and full-time (for 11 months).
- 4/2002 – 5/2002 University of Helsinki, Department of Forest Resource Management.
Implementing software for the prediction of soil damages resulting from the use of forest machinery.

Publications

Liesiö, J., Salo, A. (2008). *Scenario-Based Portfolio Selection of Investment Projects with Incomplete Probability and Utility Information*, Systems Analysis Laboratory Research Report, E23, Helsinki University of Technology.

Liesiö, J., Mild, P., Salo, A. (2008). *Robust Portfolio Modeling with Incomplete Cost Information and Project Interdependencies*, European Journal of Operational Research, Vol. 190, pp. 679-695.

Brummer, V., Salo, A., Nissinen, J., and Liesiö, J. (2008). *A Methodology for the Identification of Prospective Collaboration Networks in International R&D Programs*, forthcoming in International Journal of Technology Management, Special issue on technology foresight, to appear.

Lindstedt, M., Liesiö, J., Salo, A. (2008). *Participatory Development of a Strategic Product Portfolio in a Telecommunication Company*, International Journal of Technology Management, Vol. 42, pp. 250-266.

Liesiö, J., Mild, P., Salo, A. (2007). *Preference Programming for Robust Portfolio Modeling and Project Selection*, European Journal of Operational Research., Vol. 181, pp. 1488-1505.

Salo, A., Liesiö, J. (2006). *A Case Study in Participatory Priority-Setting for a Scandinavian Research Programme*, International Journal of Information Technology & Decision Making, Vol. 5, pp. 65-88.

Presentations at International Conferences

- 7/2010 23rd EURO Conference, Bonn, Germany, 5.-8.7.2009. Presentation title: “*Supporting Infrastructure Maintenance Project Selection with Robust Portfolio Modelling (RPM)*” (with Professor Ahti Salo and Pekka Mild).

- 10/2008 INFORMS Annual Meeting 2008, 12.-15.10.08, Washington D.C., USA.
Presentation title: *“A Portfolio Model for the Allocation of Resources to Standardization Activities”* (with Professor Ahti Salo and Antti Toppila).
- 11/2007 INFORMS Annual Meeting 2007, 4.-7.11.07, Seattle, USA. Presentation title:
“Determining Cost-Effective Portfolios of Weapon Systems” (with Professor Ahti Salo).
- 7/2006 INFORMS International 2006, 25.-28.6.06, Hong Kong. Presentation title:
“Incomplete Cost and Budget Information in Robust Portfolio Modelling (RPM)” (with M.Sc. Pekka Mild and Professor Ahti Salo).
- 7/2005 IFORS Triennial 2005, 11.-15.7.05, Hawaii, USA. Presentation title: *“Robust Portfolio Modelling for Scenario Based Project Appraisal”* (with M.Sc. Pekka Mild and Professor Ahti Salo).
- 5/2005 Towards Electronic Democracy workshop, 19.-22.5.05, Helsinki, Finland.
Presentation title: *“Selecting Forest Sites for Voluntary Conservation with Robust Portfolio Modeling”* (with M.Sc. Antti Punkka and Professor Ahti Salo).
- 9/2004 15th Mini-EURO Conference 22-24.9.04., Coimbra, Portugal. Presentation title:
“Multi-Criteria Capital Budgeting with Incomplete Preference Information” (with M.Sc. Pekka Mild and Professor Ahti Salo).
- 7/2003 EURO/INFORMS Joint International Meeting 6.-10.7.03, Istanbul, Turkey.
Presentation title: *“Multicriteria Methods for the Shaping of Research Priorities - A Case Study for Finnish Forestry and Forest Industries”* (with Professor Ahti Salo).

Teaching Experience

- 1/2010 – 4/2010 Dynamic optimization, lecturer.
- 9/2008 – 10/2008 Decision making and problem solving, lecturer.
- 9/2009 Research Course in System Sciences: Efficiency Assessment and Portfolio Decision Analysis, invited lecturer
- 1/2009 – 5/2009 Seminar on Case Studies in Operations Research, teacher.
- 11/2008 – Bachelor seminar in system sciences, teacher.
- 9/2008 – 12/2008 Decision making and problem solving, lecturer.
- 9/2007 – 12/2007 Decision making and problem solving, lecturer.
- 9/2007 Research Course in System Sciences: Trends and Developments in Decision Analysis, invited lecturer
- 9/2006 – 12/2006 Decision making and problem solving, lecturer.
- 9/2005 – 12/2005 Decision making and problem solving, lecturer.

- 9/2005 – 12/2005 Seminar on optimization: Bayesian networks and Influence Diagrams, teaching assistant.
- 1/2005 – 5/2005 Seminar on case studies in operations research, teaching assistant.
- 9/2004 – 12/2004 Postgraduate seminar in applied mathematics: Auction theory, teaching assistant.

Instructor of Master's theses

- 3/2009 Antti Toppila: *A Resource Allocation Model for Standardisation Activities in a Telecommunication Company.*
- 6/2008 Jussi Kangaspunta: *Portfolio Analysis in the Cost-Effectiveness Evaluation of Weapon Systems*
- 5/2007 Erkka Jalonen: *Portfolio Decision Making in Innovation Management.*

Awards and Scholarships

- 12/2008 Science Helsinki University of Technology incentive scholarships for doctoral students
- 12/2007 System analysis laboratory's teacher of the year award.
- 12/2006 System analysis laboratory's teacher of the year award.
- 12/2006 Science Helsinki University of Technology incentive scholarships for doctoral students
- 8/2004 Science Helsinki University of Technology incentive scholarships for master's level students

Programmed Software

- RPM-Decisions A decision support software / optimizer for multi-criteria project portfolio selection with incomplete information.
- RICH Decisions A decision support software for use of ordinal information.

Programming Skills

Java, Visual Basic and Matlab.

Language Skills

Finnish	Native language
English	Excellent
Swedish	Moderate
German	Basics