

- Personal details
 - Surname: Ruotoistenmäki
 - First names: Antti Valtteri
 - ORCID ID: 0000-0002-7334-6884
- Degrees
 - 14 December 2007, Doctor of Philosophy, Quantitative Methods of Economics and Management Science, Helsinki School of Economics (Aalto University School of Business), Helsinki, Finland
 - 17 January 1994, Master of Science (Civil Engineering), Soil Mechanics and Foundation Engineering, Helsinki University of Technology (Aalto University School of Engineering), Helsinki, Finland
- Other education and expertise
 - Six Sigma at Green Belt level: DMAIC, MSA, SPC, QFD, FMEA, basics of LEAN. Extent 6*2 days. Quality Knowhow Karjalainen Ltd, 2007-08.
- Language skills
 - Native language: Finnish
 - Other languages (self-assessment):
English: Fluent; Swedish: Good
- Current employment
 - Aalto University, 1 Jan 2022 – 31 Dec 2023: *Staff scientist*: Academic coordinator of digital MAGICS infrastructure and Profi-6 theme Computational imagination at Aalto Studios
- Previous work experience
 - Aalto University, 1 Jan – 31 Dec 2021: *Academic coordinator* of digital MAGICS research infrastructure at Aalto Studios
 - Aalto University, 1 Aug 2011 – 31 Dec 2020: *Senior Grant Writer* at School of Business and School of Arts, Design and Architecture: Aalto Project List (APL): Database for internal approval, reporting and BI for externally funded projects (2017 - 2020); Research Data Management working group (2014 – 2018), Research and innovation services; 1 Jan 2010 – 31 July 2011: *Project manager*, MetroComm: Commercialisation of on-demand transportation and preparing a pilot, Department of Computer Science; 2010: *Coordinator*, EcoMobility Initiative, Department of Mechanical Engineering
 - Destia Ltd, 1 Feb 2007 – 31 Dec 2009: *Key Account Manager*: Acquiring new customers (2009); *Leading consultant*: Infrastructure management, condition measurements (2007 – 2008)
 - Pöyry Infra Ltd, 1 Aug 2005 – 31 Jan 2007: *Consultant*: Infrastructure management, condition measurements
 - Helsinki School of Economics, 1 Nov 2001 – 31 Mar 2005: Researcher and doctoral student 1 Jan 2003 – 31 Mar 2005; Assistant and doctoral student 1 Nov 2001 – 31 Dec 2002
 - Inframan Ltd, 1 Nov 1999 – 31 Jul 2005 (part-time 1 Nov 2001 – 31 Jul 2005): *Advisor*: Infrastructure management, condition measurements, life-cycle cost analysis
 - Technical Research Centre of Finland, VTT: *Researcher* (17 Jan 1994 – 31 Oct 1999) and *Research Assistant* (1 Jun 1992 – 16 Jan 1994 and 1 Jun – 31 Aug 1991): Condition measurements, road structures, infrastructure management, life-cycle cost analysis
- Career breaks
 - Family leave, 1 Nov 2002 – 28 Feb 2003 (3 months) and 1 April 2005 – 31 July 2005 (4 months)
- Research funding, grants and projects
 - Grants:
 - Jenny and Antti Wihuri Foundation, 10 Oct 2014, €3,000 (€6,000 in the team led by PhD Tomi Seppälä) in the study "Smart management of networked assets"
 - The Nordic Road Association, Finnish board, 2007, €1,500, Doctoral study "Optimal selection and routing of road surface measurements"



- Projects:
 - Project manager: MetroComm project co-funded by Tekes: Preparing for the commercialization and piloting of demand-responsive transport (DRT), Aalto University, Department of Computer Science 1 Jan – 31 Jul 2011
 - Development manager: Road Surface Measurements (PTM 2008 – 2013), €1,000,000 per annum, Destia Ltd, 2008, client Finnish Road Administration (Finnish Transport Infrastructure Agency)
 - Project manager: Tekes Infra technology programme research project 'Development of Road Condition Data', €154,000, Helsinki School of Economics 1 Jan 2003 – 31 Mar 2005
 - Large number of medium to small size consulting projects in Inframan Ltd., Pöyry Ltd., and Destia Ltd., for various clients including Finnish Road Administration (Finnish Transport Infrastructure Agency) and City of Helsinki, 1999 - 2008
 - European Commission, IV Framework Programme: PAV-ECO - Economic Evaluation of Pavement Maintenance & Life Cycle Cost at Project and Network Level, Project manager 1997 – 1999, <https://cordis.europa.eu/project/rcn/44655/factsheet/en>
 - European Cooperation in Science and Technology, COST-336: Falling weight deflectometer, Project manager 1996 – 1999
 - World Bank, Armenia Highway Project, road condition measurements and financial analysis of road maintenance 1995 – 1997
 - Road Structures Research Programme (TPPT), technical secretary, researcher and project manager, client Finnish Road Administration, 1995 – 1999
- Research output
 - *Dissertation*

Ruotoistenmäki, A., Condition data in road maintenance management, *Acta Universitatis oeconomicae Helsingiensis*. A, ISSN 1237-556X; 316 <http://urn.fi/URN:ISBN:978-952-488-185-2>
 - *Peer-reviewed scientific articles*

Ruotoistenmäki, A., Seppälä, T., Road condition rating based on factor analysis of road condition measurements. *Transport Policy* (2007), doi:10.1016/j.transpol.2007.03.006

Ruotoistenmäki, A., Seppälä, T. & Kanto, A., Comparison of Modeling and Measurement Accuracy of Road Condition Data. *Journal of Transportation Engineering*, Vol. 132, No 9, pp. 715-721.
 - *Working papers*

Seppälä, T., Ruotoistenmäki, A. & Thomas, F.: Optimal selection and routing of road surface measurements. In *Helsinki School of Economics Working Papers*, W-424. <https://aaltodoc.aalto.fi/bitstream/handle/123456789/12339/isbn9789524881371.pdf?sequence=1>

Ruotoistenmäki, A.: Road maintenance management system - a simplified approach. In *Helsinki School of Economics Working Papers*, W-425.
 - Several articles in conference proceedings on Pavement Condition Measurements and Modelling.
 - I have vast experience on producing, analysing and sharing large data bases on road condition data.
 - I have published tens of reports and publications e.g. in the publication series of Finnish Road Administration (Finnish Transport Infrastructure Agency) and VTT Technical Research Centre of Finland, and other publications on road maintenance management, road condition measurements, models for road condition data, vehicle operating costs, as well as road structural design, life cycle analysis and life cycle cost analysis.
- Merits in teaching and pedagogical competence
 - Aalto University, lecturer in several Grant Writing seminars 2013 to 2020
 - Helsinki School of Economics, course assistant on bachelor level courses on quantitative research methods, 2002 – 2004