

Curriculum Vitae

Personal Information



Lastname: Virrankoski
Firstname: Reino
Middle: Veikko Tapio
Date of Birth: December 23, 1974
Place of Birth: Kauhava, Finland
Nationality: Finland

Education

Ph.D. student at the Helsinki University of Technology, major in Control Engineering.

M.Sc., University of Helsinki, May 2000, major in Mathematics.

Malaysian International Business Program, one semester entity at HELP-institute in Kuala Lumpur, Malaysia. Program provided by Helsinki School of Economics and by HELP-institute. Autumn semester 2001.

Conscription 08/1994-07/1995. Second Lieutenant in reserve on July 17, 1995.

Kauhava High School, 1993.

Languages

Finnish (native), English, Swedish

Current Position

Lecturer of Telecommunications in the University of Vaasa. From 08/2007 to present.

Previous Working Experience

Researcher at the Control Engineering Laboratory at Helsinki University of Technology. From 06/2000 to 07/2007 excluding Autumn semester 2001 in Malaysia.

Visiting Assistant Researcher at the Embedded Networks and Applications Laboratory, Yale University, USA. From 02/2004 to 05/2005.

Part-time lecturer, Chydenius Institute, Autumn semesters 2006 and 2007.

Visiting Researcher, University of California, Los Angeles, Center of Embedded Networked Sensing, Networked & Embedded Systems Laboratory, 04/2003-07/2003.

Part-time lecturer, Helsinki Polytechnic Stadia, Autumn semester 2003.

Research Assistant, Helsinki University of Technology, Institute of Mathematics, 02/1999-12/1999 and 03/2000.

Several Teaching Assistant duties at the following instances at Helsinki University of Technology: Control Engineering Laboratory, Institute of Mathematics, Department of Computer Science and HUT Open University, 1999-2003.

Teacher of mathematics in the commercial training courses provided by Valmennuskeskus Oy, Valmennustiimi Eximia Oy and Kymenlaakson Valmennuskeskus Oy, 1998-2001.

Course and WWW-page design of high school level physics course about heat and energy, Finnish National Board of Education, 06/1998-08/1998 (<http://www.oph.fi/etalukio/opiskelumodulit/fysiikka/fysiikka4/index.html>).

Environment protecting investigator (summerjob), Kauhava municipal, 06/1997-08/1997 and 06/1998-07/1998.

Publications

T. Ahonen, R. Virrankoski and M. Elmusrati, *Greenhouse Monitoring with Wireless Sensor Network*, in the proceedings of 2008 IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, October 12-15, 2008, Beijing, China.

M. Bocca, R. Virrankoski and H. N. Koivo, *Text and Language Independent Speaker Identification by Using Short-Time Low Quality Signals*, Workshop on Wireless Communication and Applications (WoWCA 2008), April 2, 2008, Vaasa, Finland.

M. Bocca, C. Galperti, R. Virrankoski and H. N. Koivo, *Estimating the Number of Persons in an Unknown Indoor Environment by Applying Wireless Acoustic Sensors and Blind Signal Separation*, to appear in the Mobile Computing and Wireless Communications International Conference, September 17-20, 2006, Amman, Jordan.

P. Drineas, A. Javed, M. Magdon-Ismael, G. Pandurangan, R. Virrankoski and A. Savvides, *Distance Matrix Reconstruction from Incomplete Distance Information for Sensor Network Localization*, to appear in the Third Annual IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON'06), September 25-28, 2006, Reston, VA, USA

Virrankoski, R., Savvides, A., *TASC: Topology Adaptive Spatial Clustering for Sensor Networks*, Yale University, ENALAB, in the proceedings of the 2nd IEEE International Conference on Mobile Ad Hoc and Sensor Systems (MASS'05), November 7-10, 2005, Washington DC, USA.

Savvides, A., Barton-Sweeney, A., Virrankoski, R., Culuricello, E., *Ad Hoc Node Localization Using Low-Resolution Cameras: A Case Study*, Technical Report, Yale University, Embedded Networks and Applications Laboratory, 2005.

P. Drineas, M. Magdon-Ismael, G. Pandurangan, R. Virrankoski and A. Savvides, *Distance Matrix Reconstruction from Incomplete Distance Information for Sensor Network Localization*, Yale University, ENALAB Technical Report 110402, 2004.

One chapter in Heikki Hyötyniemi (ed.): *Complex Systems - Science on the Edge of Chaos*. Helsinki University of Technology, Control Engineering Laboratory, Report 145, October 2004.

Savvides, A., Srivastava, M. B., Virrankoski, R., *Geometry Aware Ad-Hoc Localization*, Technical Report, University of California, Los Angeles, Networked & Embedded Systems Laboratory, 2003.

Jalkanen, H., Virrankoski, R., Oksanen, T., *A simulator of oxygen converter process (BOF)*, Pyrometallurgy 2002, Cape Town, South Africa, March 11-13, 2002.

In Finnish:

Virrankoski, R., Oksanen, T., Jalkanen, H., *CONSIM 4.0 - Happikonvertteriprosessin simulointiohjelman*, Helsinki University of Technology, Laboratory of Materials Processing and Powder Metallurgy, TTK-MK-121, Espoo 2001.

Virrankoski, R., Oksanen, T., Jalkanen, H., *CONSIM - happikonvertteriprosessin simulointiohjelman*, Automaatiöväylä 4/2001.

Virrankoski, R., *Matematiikan kertauskurssi Iso-M elokuussa 1999*, report C 15, Helsinki University of Technology, Institute of Mathematics, 2000.

Virrankoski, R., *Symbolista merkistöä verkossa sekä WWW-pohjaisia opetusjärjestelmiä*, Solmu 2 / 1999-2000.

Virrankoski, R., *Laskentaohjelmistojen hyödyntäminen digitaalisen opetusmateriaalin laatimisessa - optimointia Maple-ohjelmalla*, Masters Thesis, University of Helsinki, 1999.

References

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Andreas Savvides, Assistant Professor, Ph.D., Electrical Engineering Department, Yale University, USA, tel. +1-203-432-1275, Email: andreas.savvides@yale.edu