

Curriculum Vitae

Jim Tørresen

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Current position: Professor at Department of Informatics at University of Oslo
Date of birth: December 6, 1964 in Mandal, Norway
Nationality: Norwegian
Family: Married, 1 child

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Education

2003 Pedagogical education at Pedagogical Research Institute, University of Oslo. Fulfils demand for basic pedagogical competence.
1996 Dr. Ing. (PhD) in computer science, Department of Computer and Information Science, Norwegian University of Science and Technology (formerly NTH), Trondheim.
1991 Siv. Ing. (M.Sc.) in computer science, Department of Computer and Information Science, Norwegian University of Science and Technology (formerly NTH), Trondheim.

Employment

June 1999 – current Professor, Department of Informatics, University of Oslo (associate professor 1999-2005)
April 1998 – May 1999 R&D Satellite-based landing system, Navia Aviation.
April 1996 – March 1998 R&D Power line carrier system, NERA Telecommunications.
Jan. 1992 – March 1996 Research assistant, Department of Computer and Information Science, Norwegian University of Science and Technology, Trondheim

Teaching experience (at Department of Informatics, University of Oslo)

- I have been responsible (together with another lecturer) of establishing a new course (INF3430/4430) in design of advanced digital systems (FPGA/VHDL), named *Digital System Design*. It was given for the first time autumn 2005. The course includes four compulsory lab exercises that we have designed. I gave 11 weeks of lectures with 2 hours a week each autumn 2005-2007.
- I have been teaching a basic digital design course (digital logic design, programmable logic devices and VHDL) autumn 1999 (IN-240), autumn 2000 (IN-240), autumn 2001 (IN-240), spring 2002 (INF-130) and spring 2003 (INF-130). 12 weeks of lectures with 3-4 hours a week (except for spring 2002/2003 which was of 6 weeks duration).
- I have established and taught a new course (INF-EHW) on *Evolutionary Computation and Evolvable Hardware*. It is a master level course and it was given for the first time in autumn 2001. I have been teaching this course each autumn since 2001.
- Master/Doctor students. 25 Master students and one PhD student have graduated with my supervision. Presently, I am supervising three Master students (one is conducting research outside the university) and 7 PhD students.

Censor tasks

- Censor (all with marks) of nine 4th year projects and 22 M.Sc. thesis at Department of Computer and Information Science, NTNU from 1998.
- Censor (with marks) of two M.Sc. thesis at Department of Electronics and Telecommunications, NTNU, 2004.
- Censor/external examiner for one M.Sc. thesis at Department of Electronics, The University of York, 2004.
- External examiner for two PhD thesis at School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore in 2005 and 2006.
- Censor in two courses at Department of Computer and Information Science, NTNU: SIF80AF - Biological Inspiration, Fault Tolerance and Adaptivity and SIF80AG Evolvable Hardware, both autumn 2001 and 2002.

Administration

- Group leader for the *Robotics and Intelligent Systems* research group, Department of Informatics since 2007.
- Member of the education management board (undervisningsutvalget) at the Department of Informatics, in 2001 and 2003 - 2006.
- Member of the education management board of Master/Bachelor program in Electronics and Computer Technology at Faculty of Mathematics and Natural Sciences since 2004.
- Participated in the development of the educational programs at the Microelectronics Systems group while being employed at University of Oslo. In 2001, we introduced a new successful 5 year study program called "Profesjonsstudiet i mikoelektronikk" in Norwegian.

Adjudication Committee Member for University Positions

- External assessor for evaluation for an extension of tenure for an associate professor position at Nanyang Technological Institute, Singapore, 2007.
- Associate professor position at Department of Computer and Information Science, NTNU, 2003.
- Post. doc. position at Department of Informatics, UiO (Steinar Kristoffersen assigned), 2003.
- Doctoral student position at Department of Informatics, UiO (Henning Gundersen assigned), 2002.
- Associate professor position at Department of Computer and Information Science, NTNU (Snorre Aunet assigned), 2002.
- Associate professor position at Department of Physical Electronics, NTNU (Per Gunnar Kjeldsberg assigned), 2001.
- Associate professor position at Department of Informatics, UiO (Mats Høvin assigned), 2000.

Research Projects

- *Engineering Proprioception in Computing Systems (EPiCS)* EU integrating project (IP) in ICT Call 5: FP7-ICT-2009-5. UiO is one of 8 partners. Coordinator of the partner UiO. Period: 01.09.2010 – 31.08.2014. Amount assigned UiO: EUR 536 644.
- *Context Switching Reconfigurable Hardware for Communication Systems*. The Research Council of Norway R&D project for one post-doc and two Ph.D. candidates. Project manager. Period: 01.07.2009 – 31.12.2012. Total amount: NOK 10,002,000.
- *Sensing Music-related Actions*. The Research Council of Norway R&D project for one post-doc and one Ph.D. candidate. Project partner. Period: 01.07.2008 – 30.06.2011.
- *Biological-Inspired Design of Systems for Complex Real-World Applications*. The Research Council of Norway R&D project for one Ph.D. candidate, equipment and research visits. Project no. 160308/V30. Project manager. Period: 01.04.2004 – 02.03.2009. Total amount: NOK 2,045,000. Goal: Develop schemes and architectures for evolving systems for complex real-world applications.
- EMBLA – *Embedded systems design, modelling, Language and Analysis* funded by the Research Council of Norway. Project member, started in 2003. Goal: Strengthen the competitiveness of Norwegian electronics companies through collaboration between universities (4 members) and companies (10 members).

European Commission Activity

In 2007-2010, I have been an evaluator for FP7 (framework 7) FET Open (Future and Emerging Technologies) short proposals (41 proposals evaluated).

I have been the main responsible person in the ICES'2003 committee for writing a proposal for conference support from the European Community Fifth Framework program. The proposal (IST-2001-92552 ICES) has been assigned EUR 12,000. For the same event, I wrote an application to the Research Council of Norway which assigned us NOK 90 000 (project no. 154615/432).

I was responsible for writing an FP6 Expressions of Interest on *Embedded Reconfigurable Systems for "Ambient Intelligence"*. See: http://eoi.cordis.lu/dsp_details.cfm?ID=33184

Scholarships for funding research visits

- Science and Technology Agency (STA) fellowship for visiting *Electrotechnical laboratory*, Tsukuba, Japan from January 2000 – April 2000.
- Sazakawa fellowship for visiting various research laboratories in Japan for three weeks in November 1997.
- The Research Council of Norway fellowship for visiting *Kyoto University* in Japan, October 1993 – November 1994.

Project evaluations:

- Short proposal evaluation FP7 FET Open (35 proposals 2007-2009).
- Project evaluation *Forschung, Innovation, Technologie – Informationstechnologie (FIT-IT)*, Austrian research programme, 2007 (11 projects).
- Project evaluation of one *Research institution-based strategic project – ISP*, Research Council of Norway, 2007.

- Proposal evaluation for the research program *Global Computer Science (GLANCE)*, The Netherlands Organisation for Scientific Research (NWO), 2006.

Paper reviewing:

- ACM Trans. on Embedded Computing Systems, 2008.
- AIEDAM Journal: Artificial Intelligence for Engineering Design, Analysis and Manufacturing, 2009.
- IEEE International Conference on Electronics, Circuits and Systems, 2003
- IEEE International Workshop on BioMedical Circuits & Systems, BioCAS04.
- IEEE Journal on Selected Areas in Communications (JSAC), 2005
- IEEE Transactions on Circuits and Systems I, 2005
- IEEE Transactions on Evolutionary Computation, 2003-2010
- IEEE Transactions on Transactions on Mechatronics 2010
- IEEE Transactions on Neural Networks, 2000-2001.
- IEEE Transactions on Parallel and Distributed Systems, 2004.
- IEEE Transactions on Systems, Man and Cybernetics – Part B. 2005.
- IEEE Transactions on Systems, Man, and Cybernetics – Part C. 2005-2006 and 2008.
- IET/IEE Proceedings – Circuits, Devices and Systems, 2004, 2007.
- IET/IEE Proceedings – Computers and Digital Techniques, 2003-2008.
- IEE Proceedings – Vision, Image & Signal Processing 2006.
- Integrated Computer-Aided Engineering (IOS Press) 2010.
- Elsevier BioSystems, 2007
- European Simulation and Modelling Conference, ESM, 2005-2006.
- Genetic Programming and Evolvable Machines (journal), 2002 and 2008.
- Microprocessor and Microsystems (journal), 2006 and 2008.
- Springer, Machine Vision and Applications Journal, 2006.

Program committee member with review (~10 conferences regularly)

- Workshop on Reconfigurable Computing Education (WRCE), 2008.
- *International Conference on Field Programmable Logic and Applications (FPL)*, since 2007.
- *International Symposium on Bio-inspired, Learning, and Intelligent Systems for Security (BLISS)*, since 2007.
- *NASA/ESA Conference on Adaptive Hardware and Systems (AHS)*. IEEE CS Press, since 2006.
- *Sixth International Workshop on Information Processing in Cells and Tissues (IPCAT)* 2005. Elsevier Science.
- *IEEE Norchip Conference*, since 2004.
- *International Conference on Bioinspired Optimization Methods and their Applications (BIOMA 2004)*, 2004
- *International Conference on Knowledge-Based Intelligent Information & Engineering Systems (KES)*, Springer Lecture Notes in AI, since 2004.
- *International Conference on Engineering of Reconfigurable Systems and Algorithms (ERSA)*, since 2004.
- *Reconfigurable Architectures Workshop (RAW)*, IEEE CS Press, since 2004.
- *NASA/DoD Conference on Evolvable Hardware (EH)*, IEEE, 2002-2005.
- *International Symposium on Cyber Worlds (CW)*, 2002. IEEE CS Press,
- *International Conference on Evolvable Systems: From Biology to Hardware (ICES)*, Springer Lecture Notes in Computer Science, since 2000.
- *Genetic and Evolutionary Computation Conference (GECCO)*, Springer Lecture Notes in Computer Science/ACM, since 2000.

Conference organizing

- Workshop Chair at 9th *International Conference on Parallel Problem Solving From Nature*, PPSN'2006.
- Technical committee member for *Special session on Evolutionary Design Automation at 2003 Congress on Evolutionary Computation*. <http://www.cad.polito.it/eda03>
- Steering committee member "*International Conference on Evolvable Systems: From Biology to Hardware*" since 2003.
- Program Co-chair "*5th International Conference on Evolvable Systems: From Biology to Hardware (ICES 2003)*" in Trondheim, Norway, March 2003. Springer Lecture Notes in Computer Science, <http://ices03.idi.ntnu.no>

Publications

A total of 80 papers (44 as the first author) have been published in international conferences, journals and books. See a list at: <http://home.ifi.uio.no/~jimtoer/papers.html>