

Curriculum Vitae

Pekka Orponen

8 August 2017

Personal: Born 1959 in Helsinki, Finland, Finnish citizen

Position: Professor (Theoretical Computer Science), Department of Computer Science, Aalto University School of Science

Education

April, 1986 Ph.D. in Computer Science, University of Helsinki

April, 1983 M.Sc. in Computer Science, University of Helsinki

May, 1978 Secondary school matriculation, Suomalainen Yhteiskoulu, Helsinki

Professional appointments

Sep 2001 – present: Professor (Theoretical Computer Science), Department of Computer Science, Aalto University School of Science (until Dec 2009 Helsinki University of Technology TKK)

Aug 1996 – Aug 2001: Professor (Applied Mathematics and Computing), Department of Mathematics, University of Jyväskylä

Aug 1995 – July 1996: Professor (Intelligent Systems), Department of Computer Science, University of Helsinki

June 1994 – July 1995: Associate Professor, Department of Computer Science, University of Helsinki

Aug 1990 – May 1994: Assistant Professor, Department of Computer Science, University of Helsinki

Aug 1987 – July 1990: Senior Research Fellow, Academy of Finland

Oct 1984 – Aug 1986: Research Associate, Academy of Finland

Recent research funding

2017–2021: 7 py for project “Algorithmic Designs for Biomolecular Nanostructures” from the Academy of Finland.

2008–2013: 5 py (personyears) in support of Erik Aurell’s (Professor and Chair of Biological Physics, KTH, Stockholm) visit to TKK as a Finland Distinguished Professor, from the Academy of Finland.

2011: Senior scientist appropriation for project “Modern Algorithmics and Its Interdisciplinary Applications” from the Academy of Finland.

2009–2011: 3 py for project “Online Optimisation and Production Planning” from the Academy of Finland. (Joint application with Esko Niemi, TKK Dept. of Engineering Design and Production.)

2009–2011: 5 py for project “ICT SHOK Programme Future Internet WP6: Data Security” from Tekes – National Technology Agency of Finland.

Scientific and professional activities

Recent editorial board memberships:

Theoretical Computer Science C: Natural Computation 2003 – present

IEEE Transactions on Neural Networks 1999 – 2002

Recent program committee memberships: *44th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2018, Krems a.d. Donau, Jan 2018), 23rd International Conference on DNA Computing and Molecular Programming (DNA23, Austin TX, Sep 2016), 16th International Conference on Unconventional Computation and Natural Computation (UCNC 2017, Fayetteville AR, June 2017), 22nd International Conference on DNA Computing and Molecular Programming (DNA22, München, Germany, Sep 2016), 15th International Conference on Unconventional Computation and Natural Computation (UCNC 2016, Manchester, UK, July 2016), 2nd ACM International Conference on Nanoscale Computing and Communication (ACM NANOCOM 2015, Boston MA, Sep 2015), 21st International Conference on DNA Computing and Molecular Programming (DNA21, Boston MA, Aug 2015), 35th IEEE International Conference on Distributed Computing Systems (ICDCS 2015, Columbus OH, June 2015), 20th International Conference on DNA Computing and Molecular Programming (DNA20, Kyoto, Japan, Sep 2014), 8th IFIP International Conference on Theoretical Computer Science (TCS2014, Rome, Sep 2014)*

Membership in scientific societies: *American Mathematical Society, Association for Computing Machinery, European Association for Theoretical Computer Science, European Mathematical Society, Finnish Artificial Intelligence Society, Finnish Mathematical Society, Finnish Society for Computer Science (board member 1988, 1991–1993), IEEE Computer and Information Theory Societies, International Neural Network Society, Society for Industrial and Applied Mathematics*

Extended research visits:

May–July 2017: Physik-Department, TU München

Apr 2017: Institut für Informatik, Univ. Paderborn

Mar 2017: Dept. of Mathematical and Computing Sciences, Tokyo Inst. of Technology

Jan – Feb 2017: Dept. of Computer and Network Engineering, Univ. of Electro-Communications, Tokyo

Oct – Dec 2016: Dept. Informationstechnologie und Elektrotechnik, ETH Zürich

Mar & Oct 2011: Chinese Academy of Sciences, Beijing

Feb 2011: Dept. de Llenguatges i Sistemes Informàtics, Univ. Politècnica de Catalunya

Mar 2004 – Apr 2004: The Santa Fe Institute

Mar 1997 – Apr 1997: Dept. of Computer Science, Boston University
Jan 1997 – June 1997: Dept. of Computer Science, Univ. of Edinburgh
Sep 1994 – July 1995: Institute for Theoretical Computer Science, TU Graz
Jan 1989 – June 1990: Dept. of Computer Science, Univ. of Toronto

Recent administrative positions and positions of trust:

Council of Finnish Academies. National Committee on Data, Chairman June 2015 – present.

Finnish Academy of Science and Letters. Member 2013 – present.

Finnish Cultural Foundation. Association Committee Member Oct 2003 – Sep 2011, Supervisory Board Member Sep 2012 – present.

Aalto University Science Institute. Director Jan 2015 – Aug 2016.

Department of Computer Science, Aalto University School of Science. Vice-Head of Department (Research), Jan 2015 – May 2016, Head of Department June – July 2016.

Department of Information and Computer Science, Aalto University School of Science (until Dec 2009 Helsinki University of Technology TKK). Head of Department Jan 2008 – Dec 2014 (on leave 2011).

Division of Computer Science and Engineering, Helsinki University of Technology TKK. Chairman of Curriculum Committee Aug 2002 – July 2003, Aug 2004 – Dec 2007.

Laboratory for Theoretical Computer Science, Helsinki University of Technology TKK. Head of Laboratory Aug 2005 – July 2006.