

Kenneth Arthur Hawick BSc PhD MInstP CPhys FRMetS MIEEE MBCS CITP ACMI MRSNZ MIET SMACM

Educated: Broughton High School, Edinburgh and at Edinburgh University

Qualifications: B.Sc. (Physics & Computer Science, Edinburgh 1987)
Ph.D. (Computational Physics, Edinburgh 1991 – Thesis: “Domain Growth in Alloys”)

Affiliations: Member of the British Computer Society (BCS)
Chartered IT Professional (CITP)
Member of the Institute of Electrical and Electronics Engineers (IEEE)
Member of the IEEE Computer Society
Senior Member of the Association for Computing Machinery (ACM)
Member of the Society for Industrial and Applied Mathematics (SIAM)
Member of the American Association for Artificial Intelligence (AAAI)
Chartered Physicist
Member of the Institute of Physics
Fellow of the Royal Meteorological Society
Member of the Royal Society of New Zealand
Member of the New Zealand Mathematical Society
Member of the Institution of Engineering and Technology (IET)
Member of the International Society for Modeling and Simulation (SCS)
Associate Member of the UK Chartered Management Institute (CMI)
Associate Member of the UK Business Consulting Institute
Editorial board Member: Journal of Concurrency and Computation: Practice & Experience.
Editorial board Member: International Journal of Pure & Applied Mathematical Sciences
Editorial board Member: Global Journal of Mathematics and Mathematical Sciences
Editorial board Member: Journal of Principles & Applications of Info. Science & Technology
Editorial board Member: International Journal of Mobile and Blended Learning
Advisory board Member for the IEEE Task Force on Cluster Computing
Member of the IEEE Technical Committee on Scalable Computing

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Brief Career Summary:

- [83-91]** Undergraduate and then PhD Student at Edinburgh University.
Research Visitor at Harwell Laboratory (CASE Award Scholarship)
Visiting Researcher at British Telecom Research Labs, Martlesham Heath,
Research Visitor at Caltech, USA.
Research Visitor at Argonne National Laboratory, USA.
- [90-93]** Project Manager then
Head of Numerical Simulations Group at Edinburgh Parallel Computing Centre(EPCC)
- [93-95]** Senior Scientist, Northeast Parallel Architectures Center, Syracuse University USA.
Senior Research Fellow at Centre for Research on Parallel Computation(CRPC) Houston.
- [95-96]** Senior Scientist at UK Ministry of Defence – Attached to Meteorological Office
- [96-00]** Senior Research Fellow at the University of Adelaide, Australia, Computer Science Dept.
On-line Data Archives (OLDA) Program Manager, ACSys/RDN CRCs, ANU, Australia.
- [00-03]** Professor and Head of Computer Science Division, University of Wales, Bangor (UWB).
Director of Centre of Advanced Software Technology (CAST)
Chair of UWB Information Services Committee (ICT & Library Services)
Member of UWB Lifelong Learning Committee
- [03-]** Professor of Computer Science, Massey University, Auckland.
Research Coordinator for Information & Mathematical Sciences (IIMS)
Head of the Computer Science and Information Technology Group (CS&IT)

Research Summary:

My main areas of research are in **parallel and high performance computing systems** and **computational science simulations** - particularly **complex systems** including **complex networks** and models of **artificial life**. I have published more than 135 (refereed) research articles in the open literature on a wide variety of technical subjects as well as over 70 other technical articles and managerial reports and I have edited various conference proceedings. My publications list is available at: www.massey.ac.nz/~kahawick/publications.html. I have supervised more than twenty doctoral students and I have had more than £25m equivalent of external grants and project funds from various sources. My Complex Systems and Simulations (CSSG) Research Group web pages are available at: www.massey.ac.nz/~kahawick/cssg.