

# Curriculum Vitae

## Personal:

Associate Prof. Saman K. Halgamuge, Australian Citizen and Married

## Academic Qualifications:

**PhD (Dr.-Ing.) in Computer Engineering**, Darmstadt University, Germany, 1994

**Masters (Dipl.-Ing.) in Computer Engineering**, Darmstadt University, 1990

**B.Sc. in Electronics and Telecommunication Engineering**,  
University of Moratuwa, Sri Lanka, 1984

## Employment Record:

1. **Associate Professor and Reader (Since January 2002), Senior Lecturer (1997-01), University of Melbourne: Research group supervision:** Principle Supervisor of 12 PhD candidates, 1 Masters by Research student, 2 Post doctoral fellows, 4 research assistants, and 3 visiting academics, **External research grants** (excluding the ARC Research Network grant) totalling over \$2.2 million and University of Melbourne internal grants totalling over \$150,000.
  - **2005:** Australian Research Council(**ARC**) **Linkage** grant on Optimising train driver vigilance system \$375,000 for 3 years (with Lal, Fisher and Metcalf), **ARC e-research** grant on Tidal Wave Warning Systems using Data Fusion \$100,000, **ARC Research Network Safeguarding Australia** grant for 5 years (Designated Program Leader and a Chief Investigator) \$1.95 million
  - **2004:** **ARC Discovery/Large** grant on Bioinformatics: Pattern Recognition and Interpretation in Sequence Data \$255,000 for 3 years, **ARC Linkage International** grant on Sequence Data Analysis for 3 years (with Glesner and Kruse), **ARC Research Networks Seed Funding** on Intelligent Vehicles (Main applicant)
  - **2003:** **ARC Linkage** grant \$195,000 on Brake-By-Wire Mechatronic Systems for 3 years (with Good and Palaniswami), Rowden White Foundation grant on Optimisation in Alternative Energy Integration \$100,000 (with Charters and Brown), **UNDP** Consultancy, and WUS Germany Consultancy on Reintegration of Professionals
  - **2002:** **Robert Bosch Germany** research contract \$145,000 on Driver Support Systems for 3 years, **ARC Linkage** grant with industry partner Ajax on Sensor Network Clustering and Pervasive Computing for E-Commerce Applications for 2 years, **Australian Government, Department of Health and Ageing** consultancy on Suicide Prevention Devices in Motor Cars 2002-04, University Collaborative Research grant on Image Processing to collaborate with NUS in Singapore
  - **2001:** **ARC Discovery/Large** grant \$169,000 on Self Organising Neural Networks for 3 years
  - **2000:** **Robert Bosch Germany** research contract \$225,000 on Sequence Image Recognition for 3 years, **ARC SPIRT/Linkage** grant on Smart Bolts: Tension Monitoring for Space Applications for 2 years, **ARC Small** grant on Data Mining, **AECM** grant on Neuro-Fuzzy Systems in Bio-Computing for 3 years, **AECM** grant on Image Data Fusion for 3 years, University Collaborative Research Grant on Knowledge Discovery to work with Monash University
  - **1999:** **ARC Small** grant on Data Compression for Telerobotics, **Consulting** contracts: **AusAid** Consultancy for training Thai academics to develop education and research programmes in Mechatronics in their universities and **UNDP** Consultancy contracts on Multimedia and Internet Technologies and Computational Intelligence Research
  - **1998:** **ARC Small** grant on Fuzzy-Petri-Nets, **AECM** grant on Robotic equipment (with Prof. Good), University Collaborative Research grant on Satellite and Terrestrial Mobile Communication Systems to work with CRC on Satellite systems, University Special Initiative Research grant on High Speed Contouring and Control

2. **Lecturer in Computer Systems Engineering** (70%), Faculty of Information Technology, University of South Australia and **Project Leader** (30%) Cooperative Research Centre for Sensor Signal and Information Processing (CSSIP), Jan. 1996- July 1997
3. **Research Fellow/Associate** (“Wissenschaftliche Mitarbeiter BAT IIa”) at Institute for Microelectronic Systems, Department of Computer Engineering, Darmstadt University, Oct. 1990 - Dec. 1995

**Honours and Scholarships: Board Membership** Asian Pacific Neural Network Assembly (APNNA) since 1999, **Neural Network Leadership** award (1995) from the International Neural Network Society at the World Conference on Neural Networks, Washington D. C., U.S.A., **German Research Foundation Overseas Travel** awards 1994 and 1995, **WUS Germany scholarship** for master studies (1986-91)

**Publications and Citations:** 6 books, 12 book chapters, 26 journal articles, over 90 refereed conference papers, and 15 technical reports. Presently working on book contracts from John Wiley and Springer, papers co-authored by Saman Halgamuge are cited by over 220 Journal papers in Inst. for Scientific Information database and over 420 papers in Google Scholar

### Conference and Other Activities

**General Co-Chair** International Conference on Information and Automation (2007), **Program Chair** International Conference on Information and Automation (2005), International Conference on Fuzzy Systems and Knowledge Discovery 2002, International Conference on Neural Information Processing “ICONIP” 1999, **Program Vice-Chair** IEEE Vehicular Technology Conference 2006

**Member International Program Committee (a selection):** 2006 Workshop on Pattern Recognition in Bioinformatics, Hong Kong, International Conference on Neural Information Processing Information Processing (ICONIP) (2005-06), International Symposium on Collaborative Research in Applied Science 2005, Canada, International Conference on Fuzzy Systems and Knowledge Discovery 2005, International Conference on Information and Automation 2005, Intelligent Vehicles and Road Infrastructure 2005-06, International Conference on Pattern Recognition and Computer Vision 2005, International Conference on Software and Knowledge Engineering 2005, Workshop on Biologically Inspired Models and Hardware for Human-like Intelligent Functions 2005, International Conference on Information Security, 24-26 June, 2005, International Conference on Software and Knowledge Engineering, February 25-27, 2005, International Conference on Signal Processing 2004-05, International Conference on Information Technology 2004-05, Hybrid Intelligent Systems 2003-04, International Conference in Artificial Intelligence and Soft Computing 2002-06, International Symposium on Intelligent Control 2002, International ICSC Congress in Neuro-Fuzzy systems 2001-02, IEEE Conference on Fuzzy Systems in 2001, ICONIP/ANZIIS’97, IEE Conference Mechatronics and Machine Vision in Practice (M2VIP) in 1996-2000, International conference on Computational Intelligence and Fuzzy Days 1999-2006 (Germany), International Workshop on Fuzzy-Neuro Systems ’99 and 01(Germany), Australian Conference on Robotics and Automation’99

**Associate Editor/Editorial Board Membership:** International Journal: Neural Information Processing - Letters and Reviews, International Journal of Computational Intelligence, International Journal of Signal Processing

**Member** of Emerging Technologies Technical Committee (ETTC) of the IEEE Computational Intelligence Society (NNS) and **Chair** of Mechatronics Task force in ETTC

**Member** Technical Committee on Pattern Recognition for Bioinformatics in the International Association of Pattern Recognition (IAPR)

**Member** of IEEE Computer Society and IEEE Communications Society