

Assoc Professor. Vincent Lee  
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## Biography

Vincent CS Lee (PhD) is currently an Associate Professor at Machine learning and Deep Learning Discipline of the Department of Data Science and Artificial Intelligence, Faculty of IT, Monash University, Australia. He received Australia Federal Government scholarship to pursue PhD from 1988 through to 1991 at The University of New Castle, NSW, in Australia. In 1973 to 1974, he was awarded a joint research scholarship by Ministry of Defence (Singapore) and Ministry of Defence (UK) for postgraduate study at Royal Air Force College, UK in aircraft electrical and instrument systems. He was a visiting academic to Tsinghua University in Beijing at the School of Economics and Management from Nov 2006 to March 2007; and was also a Visiting Professor to Information Communication Institute of Singapore from July 1994 through June 1995.

Lee has 35 (13 years with MNC and public sector establishments in Singapore, and 22 years with four universities in Australia and Singapore) years of experience in applied and fundamental research, business enterprise system development, engineering and ICT system integration, and university teaching. Lee is a Fellow Institute of Engineers, Australia (Fellow, IEAust); CPEng (ITEE), he is also a registered professional electrical engineer in Singapore; Licensed Electrical Engineer (High voltage 22KV switching authorisation) in Singapore; Chartered Engineer (UK), Senior members of IEEE USA.

Lee published 200+ peer-reviewed international (high impact factor SCI and SSCI) Q1 journals articles and A and A\* peer-reviewed international conference proceedings. His publications appear in IEEE Transactions on Knowledge and Data Engineering; IEE Proceeding on Generation, Transmission and Utilisation; IEEE Transactions on Neural Networks and linear Systems, IEEE Transactions on Signal Processing; IEEE Selected Areas in Communications; IEEE Security and Privacy; European Journal of Operational Research; Applied Mathematics and Computation; Neuro-computing; Accounting and Finance; Journal of Wealth Management; and in AAAI, ICDM, NeurIPS, ICDE, ICWS, ICIS proceedings. He has chaired/co-chaired more than a dozen of IEEE international conference technical program committees: conference chair KICSS2012; general chair ICDIM2011; co-chair workshop on Intelligent Environment (IE2010); conference chair ICSSM2008, and special sessions of IEEE International Conference on Service Computing, senior program committee members of IJCAI2020 Fintech special track, PC members of IJCNN2019, PAKDD2020, invited co-chair and speaker IEEE ICET2021, Beijing, etc.

Lee has been awarded 22 internationally competitive research grants in signal processing, decision support systems, AI/ML, Digital health informatics, and financial engineering research projects. Lee's current research interests are multidisciplinary spreading across signal processing; adaptive knowledge representation and information engineering; data, text, and graph mining for knowledge discovery; decision theory; information system research based on design science paradigm; and Neuro-financial engineering, ICU patient health support systems, Thyroid cancer prognostic and treatment analytics. He has attracted research grants from ARC DP and LPs, A\*STAR, and Swift Institute, UK.

Dr Lee is the sole recipient of Monash University, Dean of IT, 2016 excellence Award for Higher Degree supervision. He has todate supervised to the award of 30 PhDs and 35 Research Masters students in signal processing, power systems quality, e-commerce, financial engineering, Digital healthcare support systems, Secured digital networking, and innovation management from commencement to the final award of thesis during his employ with Nanyang Technological University in Singapore, Swinburne University of Technology and Monash University both in Melbourne, Australia.

Currently he is the principal supervisor of 7 PhDs in Machine Learning and Artificial Intelligence, ICU patient vital sign health monitoring, extrem learning system for Thyroid cancer patient diagnostic and treatment quality; and cosupervisors for 6 PhDs in deep learning for health modelling of smart infrastructure transport network, multiparty computation using cryptography techniques, and educational data mining research.

## Qualifications

Economics and Finance, BBus (Hons I) in Economics and Finance, Intelligent Financial Trading indicators & Systems, RMIT University

Award Date: 6 Dec 2002

Accountancy, MBus(Accounting), Towards Corporate Social Responsibility framework, RMIT University

Award Date: 1 Jul 1997

Computer System Engineering, Doctor of Philosophy, University of Newcastle

Award Date: 3 May 1992

Business Administration, Master of Business Administration, Brunel University London

Award Date: 28 Oct 1991

Electrical Engineering, Master of Science, National University of Singapore

Award Date: 5 Aug 1984

Electrical and Electronic Engineering, Bachelor of Engineering, National University of Singapore

Award Date: 5 May 1972

Individual Member, FINSIA

Institute of Electrical & Electronic Engineers (USA), SMIEEE

## **Activities**

### **IEEE Computer Society (CS) (United States) (External organisation)**

Cheng-Siong Lee (Member)

1 Jan 2016

### **Institute of Analytics Professionals of Australia (External organisation)**

Cheng-Siong Lee (Member)

1 Jan 2016

### **Monash University (External organisation)**

Cheng-Siong Lee (Member)

1 Jan 2016 → 31 Dec 2017

### **Hong Kong Baptist University (External organisation)**

Cheng-Siong Lee (Advisor)

1 Jan 2015 → 31 Dec 2016

### **Member - Inclusive Practices Faculty Equity and Diversity Committee - Monash University**

Cheng-Siong Lee (Member)

1 Jan 2011 → 31 Dec 2012