

Curriculum Vitae



Casey How Kiam Cheng

Head, Minor in Cloud Computing Programme
School of Science and Technology

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Education Qualifications

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| 2014 | Doctor of Philosophy (Electrical and Electronic Engineering), Nanyang Technological University |
| 2003 | Master of Science (Communication Software and Networks), Nanyang Technological University |
| 1999 | Bachelor of Applied Science (Computer Engineering), Upper Second Class Honours, Nanyang Technological University |

Academic and Professional Experience

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| 2022 – Present | Lecturer, Singapore University of Social Sciences |
| 2018 – 2022 | Adjunct Faculty, Singapore University of Social Sciences |
| 2015 – 2021 | Trainer, Singapore Institute of Management |
| 2011 – 2016 | Curriculum Developer, Metaknowledge Research Consultancy |
| 2005 – 2011 | Network Security Specialist, OPNET Technologies |
| 2001 – 2005 | Consultant, Info-communication Development Authority of Singapore (IDA) |
| 1999 – 2001 | Infrastructure Manager, Aden Container Terminal, PSA International |

Memberships and Professional Activities

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| 2023 – Present | Subcommittee, ISC2 Singapore Chapter |
| 2022 – Present | Professional Member, ISC2 Singapore Chapter |
| 2021 – Present | Specialist Adult Educator (Facilitation), Institute of Adult Learning |
| 2020 – 2022 | Faculty Ambassador, Amazon Web Services (AWS) |
| 2017 – 2018 | Vice-Chair, IEEE Education Society |
| 2016 – 2017 | Secretary, IEEE Education Society |
| 2014 – Present | Member, IEEE USA, IEEE Education Society |

- 2013 – Present Reviewer, IGI Global
- 2011 – Present Reviewer, Computer Networks: The International Journal of Computer and Telecommunications Networking
- 2010 – Present Reviewer, Wireless Networks: The Journal of Mobile Communication, Computation and Information

Certifications

- Advanced Certificate in Training and Assessment (ACTA)
- AWS Certified Developer - Associate
- AWS Certified Solutions Architect Associate
- Certificate of Cloud Security Knowledge (CCSK)
- Certified Ethical Hacker (CEH)
- Certified Information Systems Auditor (CISA)
- Certified Information Systems Security Professional (CISSP)

Research Interests

- Cybersecurity
- Cloud Computing
- Internet of Things
- Cognitive Radio Networks
- Wireless Communications

Selected Publications

Book Chapter:

“QoS Support in the Cognitive Radio Networks” in Evolution of Cognitive Networks and Self-Adaptive Communication Systems. IGI Global, 2013.

Refereed Journal Articles and Conferences:

K.C. How, M. Ma, and Y. Qin, "Elastic bandwidth allocation scheme with softened peak interference power constraint for the dynamic cognitive radio systems", Wireless Networks, 2015, pp. 1-11

K. C. How, M. Ma, and Y. Qin, "An altruistic differentiated service protocol in dynamic cognitive radio networks against selfish behaviors", Computer Networks, vol. 56, pp. 2068-2079, 2012.

K. C. How, M. Ma, and Y. Qin, "Differentiated service provisioning in the MAC layer of cognitive radio mesh networks", Int. J. Communication Networks and Distributed Systems, vol. 8, Nos. 3/4, pp. 213-229, 2012.

K.C. How, M. Ma and Y. Qin, "A MAC Layer QoS Provisioning Protocol for Cognitive Radio Networks", Wireless Personal Communications, pp. 1-20 2011.

K. C. How, M. Ma, and Y. Qin, "Routing and QoS provisioning in cognitive radio networks", Computer

Networks, vol. 55, pp. 330-342, 2011.

K. C. How, M. Ma, and Y. Qin, "A Cross-layer Selfishness Avoidance Routing Protocol for the Dynamic Cognitive Radio Networks", in Proc. IEEE GLOBECOM Workshops (GC Wkshps), 2011, pp. 942-946.

K.C. How, M. Ma, and Y. Qin, "An Opportunistic Service Differentiation Routing Protocol for Cognitive Radio Networks", in Proc. IEEE Global Telecommunications Conference, 2010, pp. 1-5.

K.C. How, M. Ma, and Y. Qin, "A Cognitive Power-Controlled Rate-Adaptive MAC Protocol to Support Differentiated Service in Wireless Mesh Networks", in Proc. 7th International Conference on Information, Communications and Signal Processing, 2009, pp. 1-5.

K.C. How and Y. Qin, "Dynamic Virtual Carrier Sensing and Interference Aware Routing Protocol in Wireless Mesh Networks", in Proc. 11th IEEE Singapore International Conference on Communication Systems, Guangzhou, China, 19-21 Nov. 2008, pp. 1155-1159.

Y. Qin and K.C. How, "Comparison Studies on Recovery Schemes of Combining Protection and Restoration at Different Layers in IP over WDM Networks", in Proc. 10th IEEE Singapore International Conference on Communication systems, Oct. 2006, pp. 1-5.

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