

Curriculum Vitae



Casey How

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 | Professional Member, ISACA Singapore Chapter |
| 2022 – 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

- AISP Qualified Information Security Professional (QISP)
- AWS Certified Cloud Practitioner | Certified Developer Associate | Certified Solutions Architect Associate
- CSA Certificate of Cloud Security Knowledge (CCSK)
- EC-Council Certified Ethical Hacker (CEH)
- ISACA Certified Information Systems Auditor (CISA) | Certified Information Security Manager (CISM) | Certified in Risk and Information Systems Control (CRISC) | Certified Data Privacy Solutions Engineer (CDPSE) | Certified in Governance of Enterprise IT (CGEIT)
- ISC2 Certified Information Systems Security Professional (CISSP) | Certified Cloud Security Professional (CCSP) | Certified in Governance, Risk and Compliance (CGRC)
- SSG Advanced Certificate in Training and Assessment (ACTA)

Research Interests

- Cloud Computing
- Cognitive Radio Networks
- Cybersecurity
- Internet of Things
- 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:

Hornng-Jyh, P.W., K.C. How et al. (2023). Virtual Lab Workspace for Programming Computers – Towards Agile STEM Education. In: Uden, L., Liberona, D. (eds) Learning Technology for Education Challenges. LTEC 2023. Communications in Computer and Information Science, vol 1830. Springer, Cham. https://doi.org/10.1007/978-3-031-34754-2_5

Tan, R.R., Eng, S., How, K.C., Zhu, Y., Jyh, P.W.H. (2023). Honeypot for Cybersecurity Threat Intelligence.

- In: , et al. IRC-SET 2022. Springer, Singapore. https://doi.org/10.1007/978-981-19-7222-5_44
- 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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