Curriculum Vitae

Dr Casey How

Deputy Head, Information Communication Programme and Head, Minor in Cloud Computing Programme

School of Science and Technology

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Education Qualifications

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

2024 – Present	Senior Lecturer, Singapore University of Social Sciences
2022 – 2023	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

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:

Y. Zhu, K.C. How, H.J. Wu, and Q. Cao. 2023. AI-based Proactive Storage Failure Management in Software-Defined Data Centres. In Proceedings of the 2023 6th International Conference on Information Science and Systems (ICISS '23). Association for Computing Machinery, New York, NY, USA, 231–237. https://doi.org/10.1145/3625156.3625190

Horng-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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