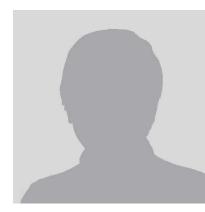


Curriculum Vitae



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Education Qualifications

2020	Specialist Diploma in Teaching and Learning (Higher Education), NIE-NYP
2011	PhD (Computing), Curtin University of Technology, Australia
1995	BEng (Computing), University of Sheffield, U.K.

Academic and Professional Experience

Senior Lecturer, School of Science and Technology
Senior Specialist (IoT) and Senior Lecturer, School of Engineering, NYP
Senior Network and Security Engineer, Hewlett-Packard (HP)
Network Engineer, Compaq Computers
Systems and Network Engineer, Digital Equipment Corporation (DEC)
Customer Engineer, Automated Systems Pte. Ltd.
Engineering Assistant, National Semiconductor Pte. Ltd.

Memberships and Professional Activities

- Member of Certified Information Systems Security Professional (CISSP) since 2003
- Delivered public talks on Internet-of-Things and Blockchain under the "Future of Work" series in collaboration with the National Library Board, 2022 2023
- Serving as a reviewer for Sensors Journal, International Journal of Communication Systems, International Symposium on Sensor Science, International Conference on Information, Communications and Signal Processing



Patents

Co-inventor of the following patents:

- 2017, "Method and System in Dynamic Self-Localisation for Non-Stationary IoT Networks and Nodes"; Singapore No. 10201702675T
- 2015, "Method and System for Collaborative Security Key Generation for Ad-hoc Internet of Things (IOT) Nodes"; Singapore No. 102015081905
- 2011, "Method and System for an Adaptive Universal Network Engine for Mobile Ad-hoc Network (MANET) Nodes"; SG 187998

Research Interests

- Internet-of-Things
- Artificial Intelligence
- Blockchain
- Wireless Mesh Network
- Network Security

Awards

- 2023, IP Award Contribution towards Intellectual Property Development, Nanyang Polytechnic
- 2020, Innovation and Quality Team Award (Gold), Nanyang Polytechnic
- 2018, Innovation and Quality Team Award (Gold), Nanyang Polytechnic
- 2018, Certificate of Merit, Innovation and Quality Project, Nanyang Polytechnic
- 2014, IP Award Contribution towards Intellectual Property Development, Nanyang Polytechnic
- 2006 2009, Curtin University Postgraduate Scholarship
- 2009, Curtin Research Scholarship

Selected Publications

- R.C. Loh, S.L. Kan, K.W. Ang, A.L. Ong, "Next-Generation "EXIT" Signs to Save Lives", The 5th IEEE International Conference of Smart Internet-of-Things, 2021
- R.C. Loh, S.L. Kan, K.W. Ang, E. Sim, E.M. Kan, J.J. Yong, S.W. Hing, "Secured IoT Gateway For Smart Nation Applications", 14th International Wireless Communications and Mobile Computing Conference, 2018
- R.C. Loh, S.L. Kan, K.P. Ng, K.W. Ang, J.J. Yong, S.W. Hing, "A Localization Algorithm Using Unique Performance Reference Profiles for Internet-of-Things", 2nd International Conference on Computer, Network Security and Communication Engineering, 2017
- S.L. Kan, R.C. Loh, K.W. Ang, E. Sim, E.M. Kan, "A Multi-Factors Security Key Generation Mechanism for IoT", 9th International Conference on Ubiquitous and Future Networks, 2017
- R.C. Loh, S. L. Kan, K. W. Ang, E. Sim, E. M. Kan, S. W. Hing (2014) "Cross-Layer Secured IoT Network



and Devices", 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2014)

- R.C. Loh, S. L. Kan (2014) "A Secure Multi-Hop Routing for IoT Communication", IEEE World Forum on Internet of Things (WF-IoT).
- R.C. Loh, W.Y. Kan, S. L. Kan, (2012) "A User-Controllable Multi-Layer Secure Algorithm for MANET", IEEE 8th International Wireless Communications and Mobile Computing Conference (IWCMC).
- R.C. Loh, S. Soh, M. Lazarescu, (2011) "Addressing the Most Reliable Edge-Disjoint Paths with Delay Constraint Problem", IEEE Transactions on Reliability, March 2011.
- R.C. Loh, S. Soh, M. Lazarescu, (2010) "Maximizing Bandwidth Using Disjoint Paths", 24th IEEE Advanced Information Networking and Applications (AINA).
- R.C. Loh, S. Soh, M. Lazarescu, (2009) "Edge Disjoint Paths with Minimum Delay Subject to Reliability Constraint", 15th IEEE Asia-Pacific Conference on Communications (APCC).
- R.C. Loh, S. Soh, M. Lazarescu, (2009) "An Approach to Find Maximal Disjoint Paths with Reliability and Delay Constraints", 23rd IEEE Advanced Information Networking and Applications (AINA).
- R.C. Loh, S. Soh, M. Lazarescu, S. Rai, (2008)"A Greedy Technique for Finding the Most Reliable Edgedisjoint-path-set in a Network", 14th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC).
- R.C. Loh, (2009) "Evaluating Reliability in Computer Communications". Poster, Curtin Engineering & Computing Research Colloquium, (CECRC).
- R.C. Loh, S. Soh, M. Lazarescu, (2008) "Finding the Best Approximate Multi-Constrained QoS Edgedisjoint-path-set", 9th Postgraduate Elec. Eng. and Comp. Symp., (PEECS).
- R.C. Loh, S. Soh, M. Lazarescu, (2007) "Finding the most reliable edge-disjoint-path-set in a communication network", 8th Postgraduate Elec. Eng. and Comp. Symp., (PEECS).

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