# SEAH Khoon Guan Winston

## EDITED BOOKS

1. Winston KG Seah and YK Tan (Ed.), Sustainable Wireless Sensor Networks, ISBN 978-953-307-297-5, InTech, 2011.

# **BOOK CHAPTERS**

- 1. <u>Winston KG Seah</u> and David Harrison, Rare-events sensing and event-powered wireless sensor networks, in *Wireless Sensor Systems for Extreme Environments: Space, Underwater, Underground and Industrial,* (eds: H. F. Rashvand and A. Abedi), John Wiley & Sons, Ltd, Chichester, UK, 2017. DOI: 10.1002/9781119126492.ch5.
- <u>Winston KG Seah</u>, YK Tan and Alvin TS Chan, Research in Energy Harvesting Wireless Sensor Networks and the Challenges Ahead, *Autonomous sensor networks – collective sensing strategies for analytical purposes*, edited by Filippini, Daniel, Springer Series on Chemical Sensors and Biosensors, Vol. 13, 2013, 400 p. ISBN 978-3-642-34647-7. Available from: http://www.springer.com/chemistry/book/978-3-642-34647-7.
- Zheng Liu, Marcelo Ang Jr and <u>Winston KG Seah</u>, Multi-Robot Concurrent Learning, In: *Encyclopedia of the Sciences of Learning*, edited by Norbert M. Seel, ISBN: 978-1-4419-1428-6, Springer, 2012. Available from: http://dx.doi.org/10.1007/978-1-4419-1428-6\_9.
- 4. VR Chandrasekhar, <u>Winston KG Seah</u>, ZA Eu and AP Venkatesh, Range-free Area Localization Scheme for Wireless Sensor Networks, In: *Wireless Sensor Networks: Application-Centric Design*, edited by Geoff V Merret and Yen Kheng Tan (Ed.), ISBN: 978-953-307-321-7, InTech, 2011. Available from: http://www.intechopen.com/articles/show/title/range-free-area-localization-scheme-for-wireless-sensor-networks.
- 5. <u>Winston KG Seah</u>, HP Tan and Pius WQ Lee, Multipath Virtual Sink Architecture for Underwater Sensor Networks, In: *Underwater Acoustic Sensor Networks*, edited by Yang Xiao, Auerbach Publications, Taylor and Francis, CRC Press, 2010.
- 6. <u>Winston KG Seah</u>, Eddie BS Tan, SY Wong and J Tay, Distributed Localization in Wireless Sensor Networks, In: *Ad Hoc and Sensor Wireless Networks: Architectures, Algorithms and Protocols*, edited by Hai Liu, Xiaowen Chu, and Yiu-Wing Leung, Bentham Science Publishers, 2009.
- 7. <u>Winston KG Seah</u> and HX Tan, Quality of Service in Mobile Ad Hoc Networks Myth or Reality?, In: *Encyclopedia of Internet Technologies and Applications*, edited by Mário Freire and Manuela Pereira, 2008.
- 8. YF Wong, LH Ngoh, WC Wong and <u>Winston KG Seah</u>, Waking Up Sensor Networks, In: *Encyclopedia of Internet Technologies and Applications*, edited by Mário Freire and Manuela Pereira, 2008.
- 9. H Xiao, K C Chua and <u>Winston KG Seah</u>, Quality of Service Models for Ad Hoc Wireless Networks, In: *Handbook of Ad Hoc Wireless Networks*, CRC Press, Dec 2002.

#### JOURNAL ARTICLES - INTERNATIONAL REFEREED

- 1. CC Ko, T T Tjhung, <u>Winston KG Seah</u> and K M Lye, Simple performance analysis of a token ring Metropolitan Area Network, *Computer Communications*, Vol. 13, No.7, pp. 425-432, 1990.
- 2. KM Lye and <u>Winston KG Seah</u>, A random polling scheme with priority, *Electronics Letters*, Vol. 28, No. 14, pp. 1290-1291, July 1992.
- 3. KM Lye, G Y Loo, K C Chua and <u>Winston KG Seah</u>, Adaptive self-stabilizing connection control scheme for server-based networks, *Computer Communications*, Vol. 17, No. 5, pp. 363-368, May 1994.
- 4. KM Lye and <u>Winston KG Seah</u>, Performance of a Delta ATM switch, *Computer Communications*, Vol. 20, No. 13, pp. 1203-1215, Nov 1997.
- <u>Winston KG Seah</u>, Y Takahashi and T Hasegawa, Waiting-time analysis of the demand-priority access method, *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, Vol. E80-A, No. 9, pp. 1684-1697, Sep 1997.
- 6. <u>Winston KG Seah</u>, Y Takahashi and T Hasegawa, Analysis of demand-priority access using a priority queue with server vacations & message dependent switchover times, *Telecommunication Systems*, Vol. 10, No. 3/4, pp. 243-268, 1998.
- 7. XJ Xiao, Y H Chew, <u>Winston KG Seah</u> and C C Ko, Performance Analysis for Voice and Data Integration in Hybrid Fiber/Coax Networks. *Computer Networks*, Vol. 36, pp. 1084-1086, 2001.
- 8. RK Balan, BP Lee, L Jacob, <u>Winston KG Seah</u> and AL Ananda, TCP HACK: a Mechanism to Improve Performance over Lossy Links, *Computer Networks*, Vol. 39, No. 4, pp. 347-361, 2002.
- 9. BP Lee, RK Balan, L Jacob, <u>Winston KG Seah</u> and AL Ananda, Avoiding Congestion Collapse on the Internet Using TCP Tunnels, *Computer Networks*, Vol. 39, No. 2, pp. 207-219, 2002.
- 10. Z Liu, Marcelo H Ang Jr and <u>Winston K G Seah</u>, A Searching and Tracking Framework for Multi-Robot Observation of Multiple Moving Targets, *International Journal of Advanced Computational Intelligence & Intelligent Informatics* (*JACI3*), Vol. 8, No. 1, 2004.
- 11. Alvin C Valera, <u>Winston KG Seah</u>, SV Rao, Improving Protocol Robustness in Ad Hoc Networks through Cooperative Packet Caching and Shortest Multipath Routing, *IEEE Transactions on Mobile Computing*, Vol. 4, No. 5, pp. 443-457, Sep/Oct 2005.
- 12. YZ Liu and <u>Winston KG Seah</u>, A Scalable Priority-based Multi-path Routing Protocol for Wireless Sensor Networks, International Journal of Wireless Information Networks, Springer Science, Vol. 12, No. 1, pp. 23-33, 2005.
- 13. TH Li, K M Chan, Joshua Liew, and <u>Winston KG Seah</u>, Mobile Internet Access in BAS, *International Journal of Wireless and Mobile Computing*, special issue on Wireless Ad Hoc Networking (Guest editors: David Simplot-Ryl and Ivan Stojmenovic), Vol. 1, No. 2/3, Inderscience Publishers, 2005.
- 14. <u>Winston KG Seah</u>, LY Yeo, ZA Eu, HX Tan and KS Tan, Performance Modeling of Mobile Ad Hoc Networks Interconnectivity, *International Journal of Wireless Information Networks*, Springer Science, Vol. 13, No. 2, pp. 115-126, Apr 2006.
- 15. CY Cho, <u>Winston KG Seah</u> and YH Chew, A Framework and Source Model for Design and Evaluation of Robust Header Compression Performance, *Computer Networks*, Vol. 50, No. 15, pp. 2676-2712, Oct 2006.
- 16. II Er and <u>Winston KG Seah</u>, Clustering Overhead and Convergence Time Analysis of the Mobility-based Multi-Hop Clustering Algorithm for Mobile Ad Hoc Networks, *Journal of Computer and System Sciences*, Elsevier, Vol. 72, No. 7, pp. 1144-1155, Nov 2006.
- 17. Y Ge and <u>Winston KG Seah</u>, A Method to Efficiently Integrate Internet Telephony Call Signaling with Resource Reservation, *Computer Networks*, Vol. 50, No. 17, pp. 3334-3352, Dec 2006. [A]

- 18. II Er and <u>Winston KG Seah</u>, Performance Analysis of Mobility-Based d-Hop (MobDHop) Clustering Algorithm for Mobile Ad Hoc Networks, *Computer Networks*, Vol. 50, No. 17, pp. 3375-3399, Dec 2006. [A]
- 19. Z Liu, Marcelo H Ang Jr and <u>Winston KG Seah</u>, Multi-Robot Concurrent Learning of Cooperative Behaviors for the Tracking of Multiple Moving Targets, *International Journal of Vehicle Autonomous Systems* (IJVAS), special issue on "Computational Intelligence and Its Applications to Mobile Robots and Autonomous Systems", Vol 4, No2/3/4, pp. 196-215, 2006.
- 20. Terrence Sit, Z Liu, Marcelo H Ang Jr, and <u>Winston K G Seah</u>, Multi-Robot Mobility Enhanced Hop-Count Based Localization in Ad Hoc Networks, *Robotics and Autonomous Systems*, Elsevier, Vol. 55, No. 3, pp. 244-252, March 31, 2007.
- CH Mar and <u>Winston KG Seah</u>, DS/CDMA Throughput of Multi-hop Sensor Network in a Rayleigh Fading Underwater Acoustic Channel, *Concurrency and Computation: Practice and Experience*, Vol. 19, No. 8, pp. 1129-1140, 10 June 2007.
  [A]
- 22. YF Wong, LH Ngoh, <u>Winston KG Seah</u> and LWC Wong, Dual Wakeup Design for Wireless Sensor Networks, *Computer Communications*, Vol. 32, No. 1, pp. 1-13, January 2009.
- 23. SK Ng and <u>Winston KG Seah</u>, Game-Theoretic Approach for Improving Cooperation in Wireless Multihop Networks, *IEEE Transactions on Systems, Man and Cybernetics Part B*, Vol. 40, No. 3, pp. 559-574, June 2010. [A]
- Pius WQ Lee, <u>Winston KG Seah</u>, HP Tan and Z Yao, Wireless Sensing Without Sensors An Experimental Study of Motion/Intrusion Detection Using RF Irregularity, *Measurement Science and Technology*, Special Issue on Wireless Sensor Networks: designing for real-world deployment and deployment experiences, Vol. 21, No. 12, November 2010, 10 pages, IOP. [B]
- 25. ZA Eu, HP Tan and <u>Winston KG Seah</u>, Opportunistic Routing in Wireless Sensor Networks Powered by Ambient Energy Harvesting, *Computer Networks*, Vol. 54, No. 17, 3 December 2010, pp. 2943-2966, Elsevier. [A]
- 26. Sukanta K Hazra and <u>Winston KG Seah</u>, Measurement-based Link Scheduling for Maritime Mesh Networks with Directional Antennas, *International Journal on Network Management*, Vol. 21, No. 2, pp. 83–105, March/April 2011, Wiley InterScience.
- 27. ZA Eu, HP Tan and <u>Winston KG Seah</u>, Design and Performance Analysis of MAC Schemes for Wireless Sensor Networks Powered by Ambient Energy Harvesting, *Ad Hoc Networks*, Vol. 9, No. 3, May 2011, pp. 300-323, Elseiver. [IF=3.151]
- 28. Che-Jung Hsu, Huey-Ing Liu and <u>Winston KG Seah</u>, Opportunistic Routing: A Review and the Challenges Ahead, *Computer Networks*, Vol. 55, No. 15, 27 October 2011, pp. 3592-3603, Elseiver. [A]
- 29. HP Tan, Roee Diamant and <u>Winston KG Seah</u>, A Survey of Techniques and Challenges in Underwater Localization, *Ocean Engineering*, Vol. 38, No. 14-15, October 2011, pp. 1663-1676, Elseiver. [IF=2.214]
- 30. Jan Von Mulert, Ian Welch and <u>Winston KG Seah</u>, Security Threats and Solutions in MANETs: A Case Study using AODV and SAODV, *Journal of Network and Computer Applications*, Vol 35, No 4, July 2012, pp. 1249-1259, Elsevier. [A; IF=3.991]
- M. Yoshida, T. Kitani, M. Bandai, T. Watanabe, P. Chou and <u>Winston KG Seah</u>, Probabilistic Data Collection Protocols for Energy Harvesting Sensor Networks, *International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC)*, special issue on Algorithms and Protocols for Opportunistic and Delay Tolerant Networks, Vol.11, No.2/3, pp. 82–96, 2012. [B]
- 32. M Mani, <u>Winston KG Seah</u>, N Crespi and Reza Farahbakhsh, P2P IP Telephony over Wireless Ad-hoc Networks, *Peer-to-Peer Networking and Applications*, special issue on Multimedia P2P Networking: Protocols, Solutions and Future Directions, Vol 5, No 4, December 2012, pp. 363-383, Springer.
- 33. Juan Rada-Vilela, Mengjie Zhang and <u>Winston KG Seah</u>, A comparative study on synchronous and asynchronous updates in particle swarm optimization, *Soft Computing*, Vol 17, No 6, June 2013, pp. 1019-1030.

- 34. L. Fan, X. Lei, Rose Q. Hu and <u>Winston KG Seah</u>, Outdated Relay Selection in Two-way Relay Network, *IEEE Transactions* on Vehicular Technology, Vol 62, No 8, August 2013, pp. 4051-4057. [IF=4.432]
- 35. Muhammad Adeel Mahmood, <u>Winston KG Seah</u> and Ian Welch, Reliability in Wireless Sensor Networks: Survey and Challenges Ahead, *Computer Networks*, Vol 79, 14 March 2015, pp. 166–187. [A]
- N. Samian, Z. A. Zukarnain, <u>Winston KG Seah</u>, A. Abdullah and Z.M. Hanapi, Cooperation Stimulation Mechanisms for Wireless Multihop Networks: A Survey, *Journal of Network and Computer Applications*, Vol 54, August 2015, pp. 88–106, Elsevier. [A; IF=3.991]
- 37. Michael Emmanuel, Ramesh Rayudu and <u>Winston KG Seah</u>, Dispatchable Distributed Energy Resources for Seamless Integration into the Smart Grid, *IEEE Smart Grid Newsletter*, February 2016.
- 38. David Harrison, <u>Winston KG Seah</u> and R Rayudu, Rare Event Detection and Propagation in Wireless Sensor Networks, ACM Computing Surveys, Vol 48, Issue 4, March 2016. [A]
- 39. Ying Qu, Bryan Ng and <u>Winston KG Seah</u>, A Survey of Routing and Channel Assignment in Multi-channel Multi-radio WMNs, *Journal of Network and Computer Applications*, Vol 65, April 2016, pp. 120-130, Elsevier. [A; IF=3.991]
- 40. David Harrison, Daniel Burmester, <u>Winston KG Seah</u> and R Rayudu, Busting Myths of Energy Models for Wireless Sensor Networks, *IET Electronics Letters*, Vol52, No 16, July/August 2016. [IF= 1.232]
- 41. Daniel Burmester, Ramesh Rayudu, <u>Winston KG Seah</u> and Daniel Akinyele, A Review of Nanogrid Topologies and Technologies, *Renewable & Sustainable Energy Reviews*, Vol 67, January 2017, pp. 760-775. [IF=9.184]
- 42. Daniel Burmester, Ramesh Rayudu and <u>Winston KG Seah</u>, Use of Maximum Power Point Tracking Signal for Instantaneous Management of Thermostatically Controlled loads in a DC Nanogrid, *IEEE Transactions on Smart Grid*, 15 May 2017. https://doi.org/10.1109/TSG.2017.2704116. [IF=7.364]
- 43. Hang Yu, Bryan Ng and <u>Winston KG Seah</u>, On-demand Probabilistic Polling for Nanonetworks under Dynamic IoT Backhaul Network Conditions, *IEEE Internet of Things Journal*, Vol 4, No 6, December 2017. [IF (2017)=7.596]
- 44. David Harrison, <u>Winston KG Seah</u> and R Rayudu, Coverage Preservation with Rapid Forwarding in Energy Harvesting Wireless Sensor Networks for Critical Rare Events, *ACM Transactions on Embedded Computing Systems*, Special Issue on Autonomous Battery-Free Sensing and Communication, Vol 17, No 2, December 2017. [A]
- 45. Hang Yu, Bryan Ng and <u>Winston KG Seah</u> TTL-based Efficient Forwarding for Nanonetworks with Multiple Coordinated IoT Gateways, *IEEE Internet of Things Journal*, Vol 5, No 3, pp. 1807-1815, June 2018. [IF (2018)= 5.863]
- 46. Deepak Singh, Bryan Ng, Yuan-Cheng Lai, Ying-Dar Lin and <u>Winston KG Seah</u>, Modelling Software-Defined Networking: Software and Hardware Switches, *Journal of Network and Computer Applications*, Vol 122, 15 November 2018, Pages 24-36. <u>https://doi.org/10.1016/j.jnca.2018.08.005</u>. [A]
- 47. Matthew Hayes, Bryan Ng, Adrian Pekar and <u>Winston KG Seah</u>, Scalable Architecture for SDN Traffic Classification, *IEEE Systems Journal*, Vol 12, No 4, December 2018, pp 3203-3214. <u>https://doi.org/10.1109/JSYST.2017.2690259</u>. [IF=3.882]
- 48. Deepak Singh, Bryan Ng, Yuan-Cheng Lai, Ying-Dar Lin and <u>Winston KG Seah</u>, Analytical Modeling of Software and Hardware Switches with Internal Buffer in Software-Defined Networks, *Journal of Network and Computer Applications*, Vol 136, 15 June 2019, Pages 22-37. [A]
- 49. Q B Guo, Y Zhang, J Lloret, B Kantarci and <u>Winston KG Seah</u>, A Localization Method Avoiding Flip Ambiguities for micro-UAVs with Bounded Distance Measurement Errors, *IEEE Transactions on Mobile Computing*, Vol 18, No 8, August 2019, pp 1718-1730. <u>https://doi.org/10.1109/TMC.2018.2865462</u>. [A\*]
- Yuki Goto, Bryan Ng, <u>Winston KG Seah</u> and Yutaka Takahashi, Queueing Analysis of Software Defined Networks with Realistic OpenFlow-based Switch Model, *Computer Networks*, Volume 164, 9 December 2019. Available online: 14 September 2019. [A]

- 51. Liang Yang, Bryan Ng, <u>Winston KG Seah</u> and Deepak Singh, Performance Evaluation of Equivalent Forwarding Sets in Software Defined Networking, *Journal of Network and Computer Applications*, available online on 9 January 2020. [A]
- 52. Deepak Singh, Bryan Ng, Yuan-Cheng Lai, Ying-Dar Lin and <u>Winston KG Seah</u>, Full Encapsulation or Internal Buffering in OpenFlow based Hardware Switches?, *Computer Networks*, Volume 167, 11 February 2020. [A]

## **CONFERENCE PAPERS**

- <u>Winston KG Seah</u>, K M Lye and C C Ko, Performance of an integrated voice/data token bus, *Proceedings of the Second International Conference on Communication Systems*, 5-9 November 1990, Singapore. Elsevier Science Publishers B V, 1990, pp. 917-921.
- 2. <u>Winston KG Seah</u>, K M Lye and K C Chua, Performance of an adaptive protocol for token bus networks, *Proceedings of 14th Symposium on Information Theory and its Applications* (SITA91), Ibusuki, Japan, 1991, pp. 585-588.
- 3. KM Lye, <u>Winston KG Seah</u> and K C Chua, Performance analysis of an adaptive token bus protocol, *Proceedings of IEEE INFOCOM92*, Florence: IEEE, 6 May 1992, Vol.2, pp. 952-957.
- 4. KM Lye and <u>Winston KG Seah</u>, A simple token bus protocol with priority, *Proceedings of IEEE Region 10 International Conference*, 11-13 Nov 1992, pp. 769-773.
- 5. <u>Winston KG Seah</u> and K M Lye, Performance of a hierarchical subscriber network, *Proceedings of Singapore ICCS/ISITA 92*, 16-20 Nov 1992, Vol.1, pp. 77 –81.
- 6. <u>Winston KG Seah</u>, Y Takahashi and T Hasegawa, Message waiting times in a LAN using the Demand-Priority Access Method, *Proceedings of 7<sup>th</sup> IEEE Workshop on Local and Metropolitan Area Networks*, 26-29 Mar 1995, pp. 43-50.
- <u>Winston KG Seah</u>, Y Takahashi and T Hasegawa, Approximate analysis of Demand-Priority Access using M/G/1 with Vacations and Message Dependent Switchover Times, *Proceedings of 11<sup>th</sup> International Conference on Systems* Engineering, 9-11 July 1996, pp. 727 –732.
- 8. <u>Winston KG Seah</u>, Y Takahashi and T Hasegawa, M<sup>X</sup>/G/1 priority queue with service dependent switchover times and its applications to packet communications networks, *Proceedings of the International Conference on Telecommunication Systems*, 20-23 March 1997, Union Station Hotel, Nashville, USA, pp. 613-622.
- <u>Winston KG Seah</u>, Y Takahashi and T Hasegawa, Priority M<sup>X</sup>/G/1 with service dependent switchover times and its applications to packet communications networks, *Proceedings of the International Conference on Telecommunications*, 2-5 April 1997, Sheraton Towers Hotel, Melbourne, Australia, pp. 1431-1436.
- 10. Anthony CC Lo and <u>Winston KG Seah</u>, Mobile IP over DECT, *Proceedings of the International Workshop on Intelligent Signal Process and Communication Systems* (ISPACS) 98, 4-6 November 1998, Melbourne, Australia, pp. 427-431.
- 11. Anthony CC Lo, V Chandrasekaran, <u>Winston KG Seah</u> and CP Soh, A session management protocol for mobile computing, *Proceedings of IEEE Global Communications Conference* (GLOBECOM), 8-12 November 1998, Sydney, Australia, pp. 2592-2598.
- 12. Anthony CC Lo, <u>Winston KG Seah</u> and Edwin Schreuder, Wide-Area Mobility Support for DECT using Mobile IP, *Proceedings of the Pervasive Computing Conference*, 17-19 November 1999, Singapore, pp. 274–278.
- 13. X Xiao, <u>Winston KG Seah</u>, YH Chew and CC Ko, Upstream Resource Reservation and Scheduling Strategies for Hybrid Fiber/Coaxial Networks, *Proceeding of the 5<sup>th</sup> Asia Pacific Conference on Communications/4<sup>th</sup> Optoelectronics & Communications Conference* (APCC/OECC 99), 18-21 October 1999, Beijing, China, Vol. 2, pp. 1163 1169.
- 14. Q Gao, <u>Winston KG Seah</u>, Anthony CC Lo and KM Lye, Verification and Analysis of an Improved Authentication Protocol for Mobile IP, *Proceedings of IFIP TC6 5th International Conference on Broadband Communications*, 10-12 November 1999, Hong Kong, pp. 245-256.
- 15. XJ Xiao, <u>Winston KG Seah</u>, YH Chew and CC Ko, Exploring QoS Issues in Hybrid Fiber/Coaxial Networks, *Proceedings of* 2nd International Conference on Information, Communications and Signal Processing (ICICS99), 7-10 December 1999, Singapore, 5 pages.

- 16. X Shangguan, <u>Winston KG Seah</u> and CC Ko, A Lightweight Resource Reservation Protocol for Mobile Hosts in the Internet, *Proceedings of 5th Conference of the Asia-Pacific Operations Research Societies within IFORS*, 5-7 July 2000, NUS, Singapore, pp. 119-127.
- 17. W Wu, <u>Winston KG Seah</u>, CC Ko and Anthony CC Lo, Differentiated services provisioning in third-generation CDMA cellular networks, *Proceedings of ITC specialist seminar on mobile systems and mobility, edited by Peder J. Emstad, 12th International Teletraffic Congress (ITC) specialist seminar on mobile systems and mobility, 22-24 March 2000, Lillehammer, Norway, pp. 27-38.*
- 18. H Xiao, <u>Winston KG Seah</u>, Anthony CC Lo and K C Chua, On service differentiation in Multihop Wireless Networks, *Proceedings of ITC specialist seminar on mobile systems and mobility, edited by Peder J. Emstad, 12th International Teletraffic Congress (ITC) specialist seminar on mobile systems and mobility,* 22-24 March 2000, Lillehammer, Norway, pp. 1-12.
- 19. J Du, Anthony CC Lo, <u>Winston KG Seah</u> and KM Lye, Analysis and Improvement of Security Protocols in Mobile IP, *Proceedings of Engineers Conference in Networld + Interop 2000*, 10-11 May 2000, Las Vegas, USA, 6 pages.
- 20. J Du, <u>Winston KG Seah</u>, Anthony CC Lo and K. M. Lye, Improved PKI-based Mobile IP Authentication, *Proceedings of Engineers Conference in Networld + Interop 2000*, 10-11 May 2000, Las Vegas, USA, 6 pages.
- 21. Anthony CC Lo, <u>Winston KG Seah</u> and Edwin Schreuder, An Efficient DECT-Mobile IP Interworking for Mobile Computing, *Proceedings of IEEE 51st Vechicular Technology Conference*, 15-18 May 2000, Tokyo, Japan, pp. 274-278.
- 22. H Xiao, <u>Winston KG Seah</u>, Anthony CC Lo and KC Chua, A Flexible Quality of Service Model for Mobile Ad Hoc Networks, *Proceedings of IEEE 51st Vehicular Technology Conference*, 15-18 May 2000, Tokyo, Japan, pp. 445-449.
- Q Shen, Anthony CC Lo, <u>Winston KG Seah</u> and CC Ko, On Providing Flow Transport Mobility Support For IPv6-based Wireless Real-time Services, *Proceedings of the 7th International Workshop on Mobile Multimedia Communications* (MoMuC2000), 23-26 October 2000, Waseda, Tokyo, Japan, 6 pages.
- 24. Y Ge, Anthony CC Lo, <u>Winston KG Seah</u> and CC Ko, Integration of Internet Telephony Call Signalling with Resource Reservation, *Proceeding of 7th International Workshop on Mobile Multimedia Communications* (MoMuC2000), 23-26 October 2000, Waseda, Tokyo, Japan, October 2000, 6 pages.
- X Shangguan, <u>Winston KG Seah</u> and CC Ko, Performance Evaluation of a Lightweight Resource Reservation Protocol for Mobile Internet Hosts, *Proceedings of 3rd IEEE Workshop on Mobile Computing Systems and Applications*, 7-8 December 2000, Monterey, CA, USA, pp. 119-127. Computer Society Press, December 2000. (ISBN 0-7695-0816-2).
- 26. HP Tan, Anthony CC Lo and <u>Winston KG Seah</u>, Performance Evaluation of TCP/IP over EDGE, Proceedings of the 10th International Conference on Computing and Information, 18-21 November 2000, Kuwait University, Kuwait, 10 pages.
- 27. BP Lee, RK Balan, L Jacob, <u>Winston KG Seah</u> and AL Ananda, TCP tunnels: avoiding congestion collapse, *Proceedings of 25th Annual IEEE Conference on Local Computer Networks* (LCN), 8-10 November 2000, Tampa, Florida, USA, pp. 408-417.
- 28. H Xiao, KC Chua, <u>Winston KG Seah</u> and Anthony CC Lo, A quantitative analysis of TCP performance over wireless multihop networks, *Proceedings of IEEE Vehicle Technology Conference* (VTC), October 2001, Atlantic City, New Jersey, USA, pp. 610-614.
- 29. H Xiao, KC Chua, <u>Winston KG Seah</u> and Anthony CC Lo, On service prioritization in mobile ad-hoc networks, *Proceedings* of *IEEE International Conference on Communications* (ICC 2001), June 2001, Helsinki, Finland, pp. 1900-1904.
- 30. XJ Xiao, YH Chew, <u>Winston KG Seah</u> and CC Ko, Performance Analysis of Voice Services in Hybrid Fiber/Caox Networks, *Proceedings of IEEE International Conference on Communications* (ICC 2001), June 2001, Helsinki, Finland, pp. 701-706.

- 31. Q Shen, Anthony CC Lo and <u>Winston KG Seah</u>, Performance Evaluation of Flow Transparent Mobile IPv6 and RSVP Integration, *Proceedings of 5th World Multiconference on Systemics, Cybernetics & Informatics* (SCI 2001), 22-25 July 2001, Sheraton World Resort, Orlando, FL, United States, vol 4, pp. 515-520.
- 32. Y S Liaw, QH Yin, Joshua SA Liew and <u>Winston KG Seah</u>, Decoupling of TCP Congestion Control & Loss Recovery for Wireless Network, *Proceedings of Wireless and Optical Communications* (WoC2002), 17-19 July 2002, Banff, Canada, ACTA Press, July 2002, pp. 429-434.
- 33. Alvin C Valera, <u>Winston KG Seah</u> and SV Rao, CHAMP: A Highly-Resilient and Energy-Efficient Routing Protocol for Mobile Ad Hoc Networks, *Proceedings of 4th International Workshop on Mobile and Wireless Communications Network* (MWCN), 9-11 September 2002, Sweden, pp. 43-47.
- 34. TY Leang, Joshua SA Liew and <u>Winston KG Seah</u>, Experimentation of TCP Schemes over GPRS & WLAN, *Proceedings of 4th International Workshop on Mobile and Wireless Communications Network* (MWCN), 9-11 September 2002, Sweden, pp. 234-238.
- 35. KC Chua, H Xiao and <u>Winston KG Seah</u>, Relative service differentiation for mobile ad hoc networks, *Proceedings of IEEE Wireless Communications and Networking Conference* (WCNC), March 16-20, 2003, Atlanta, Georgia, USA, pp. 1379-1384.
- 36. Alvin C Valera, <u>Winston KG Seah</u> and SV Rao, Cooperative Packet Caching and Shortest Multipath Routing in Mobile Ad Hoc Networks, *Proceedings of IEEE INFOCOM*, 30 March 3 April 2003, CA, USA, pp. 260-269. (Acceptance 20%)
- 37. Z Liu, Marcelo H Ang, Jr. and <u>Winston KG Seah</u>, A Potential Field Based Approach for Multi-Robot Tracking of Multiple Moving Targets, *Proceedings of the First Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management* (HNICEM 2003), 29-31 March 2003, Manila, Philippines, pp. 1-8.
- 38. F Li, M H Nguyen and <u>Winston KG Seah</u>, QoS Support in IP/MPLS Based Radio Access Networks, *Proceedings of Vehicular Technology Conference 2003 Spring* (VTC2003Spring), 21-24 April 2003, Jeju, Korea, pp. 2251-2255.
- 39. KS Ng and <u>Winston KG Seah</u>, Routing Security and Data Confidentiality for Mobile Ad hoc Networks, *Proceedings of Vehicular Technology Conference 2003 Spring* (VTC2003Spring), 21-24 April 2003, Jeju, Korea, pp. 1821-1825.
- 40. J Cheng and <u>Winston KG Seah</u>, A New Routing Protocol for Village Radio Networks, *Proceedings of Vehicular Technology Conference 2003 Spring* (VTC 2003), 21-24 April 2003, Jeju, Korea, pp. 975-979.
- LQ Yang, <u>Winston KG Seah</u> and QH Yin, Improving Fairness among TCP Flows crossing Wireless Ad Hoc and Wired Networks, *Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing* (MobiHoc), 1-3 June 2003, Maryland, USA, pp. 57-63. (Acceptance – 15%)
- 42. P Mishra, <u>Winston KG Seah</u>, and Matthew BK Lim, Authentication for Network Access Control Using DHCPv6, *Proceedings of the ACM Workshop on Wireless Security* (WiSe2003) -- in conjunction with ACM MobiCom 2003, San Diego, CA, USA, Sept 19, 2003, 10 pages.
- 43. W Wu and <u>Winston KG Seah</u>, Evaluation of End-to-end QoS Support for Mobile Hosts in IPv6 with IEEE802.11e, *Proceedings of Vehicular Technology Conference 2003 Fall* (VTC2003 Fall), 6-9 Oct 2003, Orlando, FL, USA, pp. 1969-1973. (Acceptance 16.5%; IP Mobility Symposium)
- 44. Q Xie, MH Nguyen and <u>Winston KG Seah</u>, Handoff supporting QoS in MPLS-based Hierarchical Mobile IP networks, *Proceedings of Vehicular Technology Conference 2003 Fall* (VTC2003 Fall), 6-9 Oct 2003, Orlando, FL, USA, pp. 3523-3526.
- 45. <u>Winston KG Seah</u> and S K Tan, Integrated DNS and IPv6 mobility for next generation Internet, <u>invited paper</u>, *Proceedings of 1st International Workshop on Networking Technologies*, December 17-18, 2003, Bangkok, Thailand, 6 pages.

- 46. HL Khor and <u>Winston KG Seah</u>, Bluetooth Mobile Ad Hoc Network Testbed (BTMANET), *Proceedings of First International Conference on Mobile Computing and Ubiquitous Networking* (ICMU 2004), Jan 8-9, 2004, NTT DoCoMo R&D Center, Yokosuka Research Park, Yokosuka, JAPAN, pp. 58-63.
- 47. ZA Eu, KS Tan, and <u>Winston KG Seah</u>, Ad-Hoc Routing Protocols Interconnectivity, Poster in Workshop on Mobile, Wireless and Sensor Networks: Technology and Future Directions, March 5-6, 2004, Singapore, 2 pages.
- 48. Z Liu, Marcelo H Ang, Jr. and <u>Winston K G Seah</u>, Searching and Tracking for Multi-Robot Observation of Moving Targets, *Proceedings of the 8<sup>th</sup> Conference on Intelligent Autonomous System* (IAS-8), March 10-13, 2004, Amsterdam, The Netherlands, pp. 157-164.
- 49. II Er and <u>Winston KG Seah</u>, Mobility-based d-Hop Clustering Algorithm for Mobile Ad Hoc Networks, Proceedings of IEEE Wireless Communications and Networking Conference, March 21-25, 2004, Atlanta, Georgia, USA, pp. 2359-2364.
- 50. HG Wang and <u>Winston KG Seah</u>, An Analytical Model for the ROHC RTP Profile, *Proceedings of IEEE Wireless Communications and Networking Conference*, March 21-25, 2004, Atlanta, Georgia, USA, pp. 1525-3511.
- 51. TH Li, K M Chan, Joshua SA Liew and <u>Winston KG Seah</u>, Mobile Internet access in BAS, *Proceedings of International Workshop on Wireless Adhoc Networking* (WWAN 2004) collocated with the 24<sup>th</sup> International Conference on Distributed Computing Systems (ICDCS), Tokyo, Japan, March 23-26, 2004, pp. 736-741.
- 52. Y Ge, <u>Winston KG Seah</u>, SK Tan, WC Cheng, Q Yao and CW Ang, Extending Domain Name Service to Support Internet Telephony Personal Mobility, *Proceedings of the IEEE Vehicular Technology Conference 2004 Spring* (VTC2004 Spring), May 17-19, 2004, Milan, Italy, pp. 2705-2709.
- 53. JX Zhang and <u>Winston KG Seah</u>, Topology-based capacity analysis for ad hoc networks with end-to-end delay constraints, Proceedings of the IEEE 6th CAS Symposium on Emerging Technologies: Frontiers of Mobile and Wireless Communication, May 31 June 2, 2004, Shanghai, China, pp. 541-544.
- 54. Z Liu, Marcelo H Ang, Jr., and <u>Winston KG Seah</u>, Multi-Robot Concurrent Learning in Museum Problem, *Proceedings of the 7<sup>th</sup> International Symposium on Distributed Autonomous Robotic Systems* (DARS04), June 23-25, 2004, Toulouse, France, pp. 65-74.
- 55. YZ Liu and <u>Winston KG Seah</u>, A Priority-based Multi-path Routing Protocol for Sensor Networks, *Proceedings of the 15TH IEEE International Symposium on Personal, Indoor and Mobile Radio Communications* (PIMRC), Sept 5-8, 2004, Barcelona, Spain, pp. 216-220.
- 56. HX Tan and <u>Winston KG Seah</u>, Dynamically Adapting Mobile Ad Hoc Routing Protocols to Improve Scalability The AODV Example, *Proceedings of the IASTED International Conference on Communication Systems and Networks* (CSN2004), Sept 1-3, 2004, Marbella, Spain, pp. 1-6.
- 57. MT Wu, <u>Winston KG Seah</u> and WC Wong, Location-Aided On-Demand Routing Protocol (LAOD) for Wired-Wireless Hybrid Network, *Proceedings of the 2<sup>nd</sup> International Conference on Smart Homes and Health Telematics* (ICOST2004), Sept 15-17, 2004, Singapore, 8 pages.
- 58. CY Cho, Sukanta H Kumar and <u>Winston KG Seah</u>, Exploiting Inter-Flow Redundancy: Context Replication in ROHC-TCP, *Proceedings of IEEE Globecom 2004 - Wireless Communications, Networks, and Systems*, Nov 29-Dec 3, 2004, Dallas, Texas, USA, pp. 2749-2753.
- 59. TH Li, QY Xie, J Wang and <u>Winston KG Seah</u>, Seamless Multi-Hop Handover in IPv6 based Hybrid Wireless Networks, *Proceedings of the International Conference on Information Networking* (ICOIN2005), Jan 31 Feb 2, 2005, Jeju, Korea, pp. 884-893. (Acceptance 23%)
- 60. SY Wong, JG Lim, SV Rao and <u>Winston KG Seah</u>, Density-aware hop-count localization (DHL) in wireless sensor networks with variable density, *Proceedings of the IEEE Wireless Communications and Networking Conference* (WCNC 2005), New Orleans, LA, USA, Mar 13-17, 2005, pp. 2551-2555.

- 61. HX Tan and <u>Winston KG Seah</u>, Dynamic Topology Control to Reduce Interference in Mobile Ad-Hoc Networks, *Proceedings of the 2<sup>nd</sup> International Conference on Mobile Computing and Ubiquitous Networking* (ICMU 2005), April 13 15, 2005, Osaka, Japan, 6 pages.
- 62. MT Wu, <u>Winston KG Seah</u> and Lawrence WC Wong, A Link-Connectivity-Prediction-Based Location-Aided Routing Protocol for Hybrid Wired-Wireless Networks, *Proceedings of the 2<sup>nd</sup> International Conference on Mobile Computing and Ubiquitous Networking* (ICMU 2005), April 13 15, 2005, Osaka, Japan, 6 pages.
- 63. C Wang, KS Tan, <u>Winston KG Seah</u>, KM Chan and J Shankar, Unified Framework for Mobile IP and Ad hoc Networks Interconnectivity, *Proceedings of the IASTED International Conference on Networks and Communication Systems* (NCS 2005), April 18-20, 2005, Krabi, Thailand, pp. 195-203.
- 64. HX Tan and <u>Winston KG Seah</u>, Limiting Control Overheads based on Link Stability for Improved Performance in Mobile Ad Hoc Networks, *Proceedings of the 3<sup>rd</sup> International Conference on Wired/Wireless Internet Communications* (WWIC 2005), Xanthi, Greece, May,11-13, 2005, pp. 258-268. (AR: 29%)
- HG Wang and <u>Winston KG Seah</u>, A Novel TCP Congestion Control (TCP-CC) Algorithm for Future Internet Applications and Services, *Proceedings of the 3<sup>rd</sup> International Conference on Wired/Wireless Internet Communications* (WWIC 2005), Xanthi, Greece, May 11-13, 2005, pp. 75-85. (AR: 29%)
- 66. HG Wang, LH Ngoh, <u>Winston KG Seah</u>, and DJ He, A Robust and Energy Efficient Routing Scheme for Tree-based Data Aggregation on Wireless Sensor Networks, Proceedings of the Second IEEE Workshop on Embedded Networked Sensors (EmNetS-II), May, 30-31, 2005, Sydney, Australia, pp. 89-96.
- Y Ge, QH Yin, SK Tan, Q Yao, BS Yeo and <u>Winston KG Seah</u>, GREEN: A Grid-based Energy Efficient Probabilistic Routing in Wireless Sensor Networks, *Proceedings of the IEEE 61<sup>st</sup> Semiannual Vehicular Technology Conference* (VTC2005-Spring), May 30 - Jun 1, 2005, Stockholm, Sweden, pp 2597-2600.
- TH Li, Sukanta K Hazra, and <u>Winston KG Seah</u>, Position-based Routing for Metropolitan Bus Networks, *Proceedings of the IEEE 61<sup>st</sup> Semiannual Vehicular Technology Conference* (VTC2005-Spring), May 30 Jun 1, 2005, Stockholm, Sweden, pp. 2315-2319.
- 69. SY Wong, JG Lim, SV Rao and <u>Winston KG Seah</u>, Multihop Localization with Density and Path Length Awareness in Non-Uniform Wireless Sensor Networks, *Proceedings of the IEEE 61<sup>st</sup> Semiannual Vehicular Technology Conference* (VTC2005-Spring), May 30 Jun 1, 2005, Stockholm, Sweden, pp. 2551-2555.
- 70. CH Mar and <u>Winston KG Seah</u>, An analysis of connectivity in a MANET of autonomous cooperative mobile agents under the Rayleigh fading channel, *Proceedings of the IEEE 61<sup>st</sup> Semiannual Vehicular Technology Conference* (VTC2005-Spring), May 30 - Jun 1, 2005, Stockholm, Sweden, pp. 2606-2610.
- 71. CY Cho, YH Chew and <u>Winston KG Seah</u>, Modeling and Analysis of Robust Header Compression Performance, *Proceedings of IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks* (WoWMoM 2005), Taormina/Giardini Naxos, June 13-16, 2005, pp. 192-197. (AR: 59/189=31%)
- 72. Z Liu, T. Bandyopadhyaya, Marcelo H Ang, Jr. and <u>Winston KG Seah</u>, Visibility-based Exploration in Unknown Environment containing Polygonal Obstacles, *Proceedings of the 12<sup>th</sup> International Conference on Advanced Robotics* (ICAR2005), July 17-20, 2005, Seattle, Washington, USA, pp. 484-491.
- 73. Z Liu, Marcelo H Ang, Jr. and <u>Winston KG Seah</u>, Multi-Robot Concurrent Learning of Fuzzy Rules for Cooperation, *Proceedings of the 6<sup>th</sup> IEEE International Symposium on Computational Intelligence in Robotics and Automation* (CIRA2005), Helsinki University of Technology, Espoo, Finland June 27-30, 2005, pp. 713-719.
- 74. II Er and <u>Winston KG Seah</u>, Clustering Overhead and Convergence Time Analysis of the Mobility-based Multi-Hop Clustering Algorithm for Mobile Ad Hoc Networks, *Proceedings of the 1st International Workshop on Performance Modelling in Wired, Wireless, Mobile Networking and Computing* (PMW2MNC05), in conjunction with 11th International Conference on Parallel and Distributed Systems (ICPADS-2005), July 20-22, 2005, pp. 130-134. (AR: 12/41 ≈ 29%)

- 75. ZA Eu, <u>Winston KG Seah</u> and K S Tan, Experimental Performance Modeling of Mobile Ad Hoc Networks Interconnectivity, *Proceedings of the 1st International Workshop on Performance Modelling in Wired, Wireless, Mobile Networking and Computing* (PMW2MNC05), in conjunction with 11th International Conference on Parallel and Distributed Systems (ICPADS-2005), July 20-22, 2005, pp. 155-161. (AR: 12/41 ≈ 29%)
- 76. Z Liu, Marcelo H Ang, Jr. and <u>Winston KG Seah</u>, Reinforcement Learning of Cooperative Behaviors for Multi-Robot Tracking of Multiple Moving Targets, *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems* (IROS2005), Aug 2-6, 2005, Edmonton, Alberta, Canada, pp. 1289-1294.
- 77. <u>Winston KG Seah</u>, HX Tan, Z Liu and Marcelo H Ang, Jr., Multiple-UUV Approach to Enhance Network Connectivity in Underwater Ad Hoc Sensor Networks, *Proceedings of the MTS/IEEE OCEANS2005 Conference*, Sep 19-23, 2005, Washington D.C., USA, pp. 2263-2268.
- 78. HX Tan and <u>Winston KG Seah</u>, Framework for Statistical Filtering Against DDoS Attacks in MANETs, *Proceedings of the 2nd International Conference on Embedded Software and Systems* (ICESS-05), Dec 16-18, 2005, Xi-an, China, 8 pages.
- 79. CL Gwee, Y Qin and <u>Winston KG Seah</u>, A proposed 802.11e-based buffer management scheme for mobile adhoc networks, *Proceedings of the 8<sup>th</sup> International Symposium on DSP and Communication Systems (DSPCS2005) & 4<sup>th</sup> Workshop on the Internet, Telecommunications and Signal Processing (WITSP2005), Noosa Heads (Sunshine Coast, Australia), 19-21 December 2005, 5 pages.*
- ZA Eu and <u>Winston KG Seah</u>, Mitigating Route Request Flooding Attacks in Mobile Ad Hoc Networks, *Proceedings of the International Conference on Information Networking* (ICOIN2006), 16-19 Jan, 2006, Sendai, Japan, pp. 327-336. (AR: 141/468 ≈ 30.1%)
- 81. HX Tan, <u>Winston KG Seah</u>, and KM Chan, Distributed CDMA Code Assignment for Wireless Sensor Networks, *Proceedings of the IEEE Radio and Wireless Symposium*, 17-19 Jan, 2006, San Diego, CA, USA, pp. 139-142.
- 82. CH Mar and <u>Winston KG Seah</u>, DS/CDMA Throughput of Multi-hop Sensor Network in a Rayleigh Fading Underwater Acoustic Channel, *Proceedings of the 1st International Workshop on Performance Analysis and Enhancement of Wireless Networks* (PAEMN06), held in conjunction with AINA 2006, 18-20 April, 2006, Vienna University of Technology, Vienna, Austria, 5 pages.
- CL Gwee, Y Qin and <u>Winston KG Seah</u>, Bundled Virtual Circuit: A Proposed Cross Layer Design of Routing and Scheduling for QoS Services in MANETs, *Proceedings of the 63<sup>rd</sup> IEEE Vehicular Technology Conference* (VTC2006-Spring), 8-10 May, 2006, Melbourne, Victoria, Australia, pp. 1283-1287.
- Eddie BS Tan, JG Lim, <u>Winston KG Seah</u> and SV Rao, On the Practical Issues in Hop Count Localization of Sensors in a Multihop Network, *Proceedings of the 63<sup>rd</sup> IEEE Vehicular Technology Conference* (VTC2006-Spring), 8-10 May, 2006, Melbourne, Victoria, Australia, pp. 358-362.
- 85. Jeffrey HS Tay, Vijay R Chandrasekhar and <u>Winston KG Seah</u>, Selective Iterative Multilateration for Hop Count-Based Localization in Wireless Sensor Networks, *Proceedings of the Workshop on Mobile Location-Aware Sensor Networks* (MLASN06), held in conjunction with the 7th International Conference on Mobile Data Management (MDM06), May 9-13, 2006, Nara, Japan, 8 pages.
- 86. <u>Winston KG Seah</u> and HX Tan, Multipath Virtual Sink Architecture for underwater sensor networks, *Proceedings of the MTS/IEEE OCEANS2006 Asia Pacific*, May 16-19, 2006, Singapore, 6 pages.
- 87. Vijay R Chandrasekhar and <u>Winston KG Seah</u>, An Area Localization Scheme for Underwater Sensor Networks, Proceedings of the MTS/IEEE OCEANS2006 Asia Pacific, May 16-19, 2006, Singapore, 8 pages.
- 88. Trina Kok, <u>Winston KG Seah</u> and Lawrence WC Wong, An Energy Efficient Topology Management Scheme for Underwater Acoustic Sensor Network Using Connected Dominating Sets, *Proceedings of the MTS/IEEE OCEANS2006 Asia Pacific*, May 16-19, 2006, Singapore, 7 pages.

- 89. YF Wong, LH Ngoh, WC Wong and <u>Winston KG Seah</u>, Wakeup Scheme for Ocean Monitoring Underwater Sensor Networks (UWSN), *Proceedings of the MTS/IEEE OCEANS2006 Asia Pacific*, May 16-19, 2006, Singapore, 6 pages.
- 90. TH Li and <u>Winston KG Seah</u>, Multi-Path Routing Protocol for Underwater Sensor Network, Poster presentation in the Seventh ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2006), May 22-25, 2006, Florence, Italy, 2 pages.
- 91. <u>Winston KG Seah</u> and HP Tan, Multipath Virtual Sink Architecture for Wireless Sensor Networks in Harsh Environments, *INVITED PAPER*, *Proceedings of the First International Conference on Integrated Internet, Ad Hoc and Sensor Networks* (InterSense 2006), May 29-31, 2006, Nice, France, 8 pages.
- 92. <u>Winston KG Seah</u>, Z Liu, JG Lim, SV Rao and Marcelo H Ang, Jr., Mobility-enhanced Wireless Sensor-Actuator Networks, *Proceedings of the IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing* (SUTC2006), June 5-7, 2006, Taichung, Taiwan, 4 pages.
- 93. II Er and <u>Winston KG Seah</u>, Distributed Steiner-Like Multicast Path Setup for Mesh-based Multicast Routing in Ad Hoc Networks, *Proceedings of the IEEE International Workshop on Multimedia Technology and Ubiquitous Computing* (MTUC 2006) of SUTC2006, June 5-7, 2006, Taichung, Taiwan, pp. 192-197.
- 94. C Liu and <u>Winston KG Seah</u>, Skewed Map Forwarding for Location-based Multipath Routing in Ad Hoc Networks, *Proceedings of the Fifth Annual Mediterranean Ad Hoc Networking Workshop* (Med-Hoc-Net 2006), Lipari, Sicily (Italy), June 14-17, 2006, 8 pages.
- 95. MQ Xue, II Er and <u>Winston KG Seah</u>, An Analysis on Clustering and Routing Overhead for Clustered Mobile Ad Hoc Networks, *Proceedings of the 26th International Conference on Distributed Computing Systems*, July 4-7, 2006, Lisboa, Portugal, 8 pages. (AR: 75/540 ≈ 13.8%)
- 96. HG Wang, PY Kong and <u>Winston KG Seah</u>, A Robust and Energy Efficient Routing Scheme for Wireless Sensor Network, *Proceedings of the Workshop on Wireless Ad Hoc and Sensor Networks* (WWASN2006), held in conjunction with ICDCS 2006, July 4-7, 2006, Lisboa, Portugal, 7 pages.
- Jeffrey HS Tay, Vijay R Chandrasekhar and <u>Winston KG Seah</u>, Range-free Localization Using Dynamic Hop Size Computation in Wireless Sensor Networks, *Proceedings of the 4<sup>th</sup> IEEE Conference on Industrial Informatics* (INDIN06), 16-18 August 2006, Singapore, pp. 126-131.
- 98. YF Wong, LH Ngoh, WC Wong and <u>Winston KG Seah</u>, Intelligent Sensor Monitoring For Industrial Underwater Applications, *Proceedings of the 4<sup>th</sup> IEEE Conference on Industrial Informatics* (INDIN06), 16-18 August 2006, Singapore, pp. 144-149.
- 99. HY Lee, <u>Winston KG Seah</u> and P Sun, Energy Implications of Clustering in Heterogeneous Wireless Sensor Networks An Analytical View, *Proceedings of the IEEE International Symposium on Personal, Indoor and Mobile Radio Communications* (PIMRC), Helsinki, Finland, 11-14 Sept, 2006, 5 pages.
- 100.<u>Winston KG Seah</u>, Frank WH Lee, Kenneth WL Mock, Eugene KW Ng and MQ Kwek, Mobility Modeling of Rush Hour Traffic for Multihop Routing in Mobile Wireless Networks, *Proceedings of the 64<sup>th</sup> IEEE Vehicular Technology Conference* (VTC2006 Fall), Sep 25-28, 2006, Montreal, Canada, 5 pages.
- 101.Vijay R Chandrasekhar, <u>Winston KG Seah</u>, YS Choo and HV Ee, Localization in Underwater Sensor Networks Survey and Challenges, *Proceedings of the First ACM International Workshop on UnderWater Networks* (WUWNet), in conjunction with ACM MobiCom 2006, Sep. 25, 2006, Los Angeles, California, USA, pp. 33-40.
- 102.BH Lee, GY Cai, G Yu and <u>Winston KG Seah</u>, VoIP Capacity over Wireless Mesh Networks, *Proceedings of the 31st* Annual IEEE Conference on Local Computer Networks (LCN), 14-17 Nov 2006, Tampa, FL, USA, 8 pages.
- 103.Vijay R Chandrasekhar, Zhi Ang Eu, <u>Winston KG Seah</u> and Arumugam Pillai Venkatesh, Experimental Analysis of Area Localization for Wireless Sensor Networks, *Proceedings of the IEEE Wireless Communications and Networking Conference* (WCNC), Mar 11-15, 2007, Hong Kong, pp. 4013-4018.

- 104.YF Wong, <u>Winston K G Seah</u>, LH Ngoh and WC Wong, Sensor Traffic Patterns in Target Tracking Networks, *Proceedings* of the IEEE Wireless Communications and Networking Conference (WCNC), Mar 11-15, 2007, Hong Kong, pp. 4123-4126.
- 105.YF Wong, LH Ngoh, WC Wong and <u>Winston K G Seah</u>, A Combinatorics-Based Wakeup Scheme for Target Tracking in Wireless Sensor Networks, *Proceedings of the IEEE Wireless Communications and Networking Conference* (WCNC), Mar 11-15, 2007, Hong Kong, pp. 3569-3574.
- 106.HG Wang, <u>Winston KG Seah</u> and PY Kong, Maximizing End-to-End Reliability of Routing with Redundant Path by Optimal Link Layer Scheduling, *Proceedings of the IEEE Wireless Communications and Networking Conference* (WCNC), 11-15 Mar 2007, Hong Kong, pp. 4227-4232.
- 107.P Sun, <u>Winston KG Seah</u> and Pius WQ Lee, Efficient Data Delivery with Packet Cloning for Underwater Sensor Networks, *Proceedings of the International Symposium on Underwater Technology*, 18-20 Apr 2007, Tokyo, Japan, pp.34-41.
- 108.Pius WQ Lee and <u>Winston KG Seah</u>, Comparison of data delivery schemes for underwater sensor networks, *Proceedings of the OCEANS 2007 Europe Conference*, 18-21 June 2007, Aberdeen, Scotland, 6 pages.
- 109.HP Tan, <u>Winston KG Seah</u> and Linda Doyle, A Multi-hop ARQ Protocol for an Underwater Acoustic Channel, *Proceedings* of the OCEANS 2007, 18-21 June, 2007, Aberdeen, Scotland, 6 pages.
- 110.ZA Eu and <u>Winston KG Seah</u>, Impact of Transmission Power and Routing Algorithms in Designing Robust Wireless Sensor Networks, *Proceedings of the 18<sup>th</sup> Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications* (PIMRC), 3-7 Sep 2007, Athens, Greece, 5 pages.
- 111.P Sun and <u>Winston KG Seah</u>, Adaptive Data Delivery for Underwater Sensor Networks, *Proceedings of the MTS/IEEE* OCEANS 2007 Americas Conference, Vancouver, Canada, 29 Sep – 4 Oct 2007, 8 pages.
- 112.CK Seow, <u>Winston KG Seah</u> and Z Liu, Hybrid Mobile Wireless Sensor Network Cooperative Localization, *Proceedings of the IEEE International Symposium on Intelligent Control* (ISIC2007), 1-3 Oct 2007, Singapore, pp. 29-34.
- 113.Mehdi Mani, <u>Winston KG Seah</u> and Noël Crespi, Efficient Service Control Overlay Construction to Support IP Telephony Services Over Mesh Networks, *Proceedings of the Fourth IEEE International Conference on Mobile Ad-hoc and Sensor Systems* (MASS), Pisa, Italy, 8-11 Oct 2007, 3 pages.
- 114.HX Tan and <u>Winston KG Seah</u>, Distributed CDMA-based MAC Protocol for Underwater Sensor Networks, *Proceedings of the IEEE Conference on Local Computer Networks* (LCN), 15-18 Oct 2007, Dublin Ireland, 8 pages.
- 115.WQ Lu, <u>Winston KG Seah</u>, Edwin WC Peh, and Y Ge, Communications Support for Disaster Recovery Operations using Hybrid Ad-Hoc Wireless Networks, *Proceedings of the 3<sup>rd</sup> IEEE International Workshop on Performance and Management of Wireless and Mobile Networks*, held in conjunction with the IEEE Conference on Local Computer Networks (LCN), 15-18 Oct 2007, Dublin Ireland, pp. 763-770.
- 116.<u>Winston KG Seah</u> and GH Tan, Wireless Multihop Networks in Mission Critical Realtime Monitoring and Alerts for Construction Sites, *Proceedings of the 3<sup>rd</sup> International Conference on Structural Health Monitoring of Intelligent Infrastructure* (SHMII-3), Nov 14-16, 2007, Vancouver, Canada, 10 pages. [A]
- 117. Mehdi Mani, <u>Winston KG Seah</u> and Noël Crespi, Super Nodes Positioning for P2P IP Telephony over Wireless Ad-hoc Networks, *INVITED PAPER*, *Proceedings of the 6<sup>th</sup> International Conference on Mobile and Ubiquitous Multimedia* (MUM 2007), Dec 12-14, 2007, Oulu, Finland, pp. 84-89.
- 118.HP Tan, A Gabor, <u>Winston KG Seah</u> and Pius WQ Lee, Performance Analysis of Data Delivery Schemes for a Multi-sink Wireless Sensor Network, *HIGHLY COMMENDED PAPER AWARD*, *Proceedings of the IEEE 22<sup>nd</sup> International Conference on Advanced Information Networking and Applications* (AINA2008), March 25-28, 2008, GinoWan, Okinawa, Japan, pp. 418-425. (AR: 145/469 ≈ 31%)

- 119.Edwin WC Peh, <u>Winston KG Seah</u>, YH Chew and Y Ge, Experimental Study of Voice over IP Services over Broadband Wireless Networks, *Proceedings of the IEEE 22<sup>nd</sup> International Conference on Advanced Information Networking and Applications* (AINA2008), March 25-28, 2008, GinoWan, Okinawa, Japan, pp. 834-839.
- 120.HP Tan, <u>Winston KG Seah</u> and Linda Doyle, Exploring Cognitive Techniques for Bandwidth Sharing in Mobile Underwater Networks, *Proceedings of the OCEANSO8 MTS/IEEE KOBE-TECHNO-OCEAN 08 (OTO08) conference*, Apr 8-11, 2008, Kobe, Japan, 7 pages.
- 121.SK Ng and <u>Winston KG Seah</u>, Game-Theoretic Model for Collaborative Protocols in Selfish, Tariff-Free, Multihop Wireless Networks, *Proceedings of IEEE INFOCOM 2008*, April 13-19, 2008, Phoenix, AZ, USA, 9 pages. (AR: 236/1152 ≈ 20.5%)
- 122.HP Tan, <u>Winston KG Seah</u> and Colman OSullivan, Interference Management for Medium Access Control in CDMA Underwater Acoustic Sensor Networks, *Proceedings of the IEEE 67<sup>th</sup> Vehicular Technology Conference* (VTC2008-Spring), May 11–14, 2008, Marina Bay, Singapore, pp. 2116-2120.
- 123.CH Mar, <u>Winston KG Seah</u>, KM Lye and Marcelo H Ang, Jr, An Energy Efficient Cooperative Optimal Harvesting Algorithm for Mobile Sensor Networks, *Proceedings of the IEEE International Symposium on Personal, Indoor and Mobile Radio Communications* (PIMRC), Sep 15-18, 2008, Cannes, France, 6 pages.
- 124.Sukanta K Hazra and <u>Winston KG Seah</u>, Efficient Neighbour Discovery Algorithm for Maritime Mesh Networks with Directional Antennas, *Proceeding of the 8<sup>th</sup> International Conference on Intelligent Transport System Telecommunications* (ITST 2008), Oct 22-24, 2008, Phuket, Thailand, pp. 6-11.
- 125.A Sivakumar, TS Phang, Colin KY Tan, <u>Winston KG Seah</u> and JS Dong A Robust Airborne Wireless Backbone Network, *Proceedings of the 8<sup>th</sup> International Conference on Intelligent Transport System Telecommunications* (ITST 2008), Oct 22-24, 2008, Phuket, Thailand, pp. 373-378.
- 126.Alvin C Valera, Pius WQ Lee, YF Wong, <u>Winston KG Seah</u>, HP Tan and H Ju, An Experimental Study on Connectivity and Topology Control in Real Multi-hop Wireless Networks, *Proceedings of the Fourth International Wireless Internet Conference* (WICON 2008), Nov 17-19, 2008, Maui, Hawaii, USA, 8 pages.
- 127.ZA Eu, <u>Winston KG Seah</u> and HP Tan, A Study of MAC Schemes for Wireless Sensor Networks Powered by Ambient Energy Harvesting, *Proceedings of the Fourth International Wireless Internet Conference* (WICON 2008), Nov 17-19, 2008, Maui, Hawaii, USA, 9 pages.
- 128.ZA Eu, HP Tan, and <u>Winston KG Seah</u>, Routing and Relay Node Placement in Wireless Sensor Networks Powered by Ambient Energy Harvesting, *Proceedings of the IEEE Wireless Communications and Networking Conference* (WCNC), Apr 5-8, 2009, Budapest, Hungary, 6 pages.
- 129. Alvin C Valera, Pius WQ Lee, HP Tan, <u>Winston KG Seah</u> and ZA Eu, An In-situ Measurement Approach for IEEE 802.11 Wireless Multihop Networks, *Proceedings of the IEEE International Instrumentation and Measurement Technology Conference*, Singapore, May 5-7, 2009, pp. 522-525.
- 130.NJC Libatique, GL Tangonan, R Gustilo, <u>Winston KG Seah</u>, C Pineda, ML Guico, G Abrajano, R Ching, JL Zamora, A Espinosa, AC Valera, R Lamac, H Dy, J Pusta, EM Trono, A Gimpaya, JR San Luis, SJ Gonzales and AT Lotho, Design of a tropical rain disaster alarm system: A new approach based on wireless sensor networks and acoustic rain rate measurements, *Proceedings of the IEEE International Instrumentation and Measurement Technology Conference*, Singapore, May 5-7, 2009, pp. 1337-1340.
- 131.NH Mak and <u>Winston KG Seah</u>, How long is the lifetime of a wireless sensor network?, *Proceedings of the IEEE 23rd International Conference on Advanced Information Networking and Applications* (AINA-09), University of Bradford, Bradford, UK, May 26-29, 2009, pp. 763-770.
- 132.HP Tan, ZA Eu and <u>Winston KG Seah</u>, Impact of Power Control in Wireless Sensor Networks Powered by Ambient Energy Harvesting for Railroad Health Monitoring, *Proceedings of the 2<sup>nd</sup> International Workshop on Applications of Ad*

*hoc and Sensor Networks* (AASNET), held in conjunction with the IEEE 23rd International Conference on Advanced Information Networking and Applications (AINA), University of Bradford, Bradford, UK, May 26-29, 2009, pp. 804-809.

- 133.Alvin C Valera, Pius WQ Lee, HP Tan, HG Liang and <u>Winston KG Seah</u>, Implementation and Evaluation of Multihop ARQ for Reliable Communications in Underwater Acoustic Networks, *Proceedings of the IEEE OCEANS Conference*, Bremen, Germany, May 11-14, 2009, 6 pages.
- 134. <u>Winston KG Seah</u>, ZA Eu and HP Tan, Wireless Sensor Networks Powered by Ambient Energy Harvesting Survey and Challenges, *invited paper*, Special Session on "Energy-harvesting Wireless Sensor Networks", *Proceedings of the First International Conference on Wireless Communications, Vehicular Technology, Information Theory and Aerospace & Electronic Systems Technology* (Wireless VITAE), Aalborg, Denmark, May 17-20, 2009, 5 pages.
- 135.Che-Jung Hsu, Huey-Ing Liu and <u>Winston KG Seah</u>, Economy: A Duplicate Free Opportunistic Routing, *Proceedings of ACM Mobility Conference*, Nice, France, Sep 2-4, 2009, 6 pages.
- 136.Pius QW Lee, <u>Winston KG Seah</u>, HP Tan and Z Yao, Wireless Sensing Without Sensors An Experimental Approach, Proceedings of the 20th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Tokyo, Japan, Sep 13-16, 2009, pp. 62-66. [B]
- 137.ZW Lim, Colin KY Tan, <u>Winston KG Seah</u> and GH Tan, Detection of Failures in Civil Structures using Artificial Neural Networks, *Proceedings of the 19th International Conference on Artificial Neural Networks* (ICANN), Limassol, Cyprus, Sep 14-17, 2009, pp. 976-985. [B]
- 138.HP Tan, ZA Eu and <u>Winston KG Seah</u>, An Enhanced Underwater Positioning System to Support Deepwater Installations, *Proceedings of the MTS/IEEE OCEANS Conference*, Biloxi, Mississippi, USA, Oct 26-29, 2009, 8 pages.
- 139.K Takahashi, M Bandai, HP Tan, <u>Winston KG Seah</u> and T Watanabe, Least Impact Routing towards Sustainable Sensor Networks Enhanced by Energy Harvesting, *Proceedings of the 5<sup>th</sup> International Conference on Mobile Computing and Ubiquitous Networking* (ICMU 2010), Seattle, WA, USA, Apr 26-28, 2010, pp. 153-156.
- 140.HP Tan, A Gabor, ZA Eu and <u>Winston KG Seah</u>, A Wide Coverage Positioning System (WPS) for Underwater Localization, *Proceedings of the IEEE International Conference on Communications* (ICC) - Ad-hoc, Sensor and Mesh Networking Symposium, Cape Town, South Africa, 23-27 May 2010, 5 pages. [B]
- 141. ZA Eu, HP Tan and <u>Winston KG Seah</u>, Wireless Sensor Networks Powered by Ambient Energy Harvesting: An Empirical Characterization, *Proceedings of the IEEE International Conference on Communications* (ICC) Ad-hoc, Sensor and Mesh Networking Symposium, Cape Town, South Africa, 23-27 May 2010, 5 pages. [B]
- 142.Alvin C Valera, HP Tan and <u>Winston KG Seah</u>, Improving Link Failure Detection and Response in IEEE 802.11 Ad hoc Networks, *Proceedings of the 21<sup>st</sup> Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications* (PIMRC 2010), Istanbul, Turkey, 26–30 Sep 2010, pp. 1814-1819. [B]
- 143.Sukanta K. Hazra and <u>Winston KG Seah</u>, Topology Broadcast in Maritime Mesh Networks with Directional Antennas A Practical Approach, *Proceedings of the 16<sup>th</sup> Asia-Pacific Conference on Communications* (APCC), Auckland, New Zealand, Oct 31-Nov 3, 2010, pp. 58-63. [B]
- 144.AP Venkatesh, <u>Winston KG Seah</u> and YH Chew, Improved Area Estimates for Localization in Wireless Sensor Networks, *Proceedings of the 16<sup>th</sup> Asia-Pacific Conference on Communications* (APCC), Auckland, New Zealand, Oct 31-Nov 3, 2010, pp. 40-45. [B]
- 145.II Er and <u>Winston KG Seah</u>, Adaptive Cluster-based Approach for Reducing Routing Overheads in MANETs, *Proceedings* of the 16<sup>th</sup> Asia-Pacific Conference on Communications (APCC), Auckland, New Zealand, Oct 31-Nov 3, 2010, pp. 279-284. [B]
- 146.M Waldmeyer, HP Tan and <u>Winston KG Seah</u>, Multi-stage AUV-aided Localization for Underwater Wireless Sensor Networks, *Proceedings of the 3<sup>rd</sup> Workshop on Underwater Networks* (WUnderNet), collocated with AINA2011, Singapore, Mar 2011, pp. 908-913.

- 147.Juan Rada-Vilela, Mengjie Zhang and <u>Winston KG Seah</u>, A performance study on synchronous and asynchronous updates in particle swarm optimization, *Proceedings of the 2011 Genetic and Evolutionary Computation Conference* (GECCO), Dublin, Ireland, Jul 12-16, 2011, pp. 21-28. [A]
- 148.WC Lin, W Li and <u>Winston KG Seah</u>, Inferring Human Activity using Overcomplete Dictionary Based Pattern Recognition, *Proceedings of the IEEE PACRIM 2011*, University of Victoria, Victoria, B.C., Canada, Aug 23-26, 2011, pp. 155-159.
- 149.WC Lin, <u>Winston KG Seah</u> and W Li, Exploiting Radio Irregularity in the Internet of Things for Automated People Counting, *Proceedings of the IEEE 22<sup>nd</sup> Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications* (PIMRC), Toronto, Canada, Sep 11-14, 2011, pp. 1015-1019. [B]
- 150.M Yoshida, T Kitani, M Bandai, T Watanabe, P Cai and <u>Winston KG Seah</u>, Probabilistic Data Collection Protocols for Energy Harvesting Sensor Networks, *Proceedings of the 36<sup>th</sup> Annual IEEE Conference on Local Computer Networks* (LCN), Bonn, Germany, Oct 4-7, 2011, pp. 366-373. (AR: ~29.3%) [A]
- 151.Juan Rada-Vilela, Mengjie Zhang and <u>Winston KG Seah</u>, Random Asynchronous PSO, *Proceedings of the ICARA 2011*, Wellington, NZ, Dec 6-8, 2011, pp. 220-225.
- 152. Chisato Fujii and <u>Winston KG Seah</u>, Multi-Tier Probabilistic Polling for Wireless Sensor Networks Powered by Energy Harvesting, *Proceedings of the 7th International Conference on Intelligent Sensors, Sensor Networks and Information Processing* (ISSNIP 2011), Dec 6-9, 2011, Adelaide, Australia, pp. 383-388.
- 153.Ankit Chopra, Peter Sam Raj and <u>Winston KG Seah</u>, Utilizing the Inherent Properties of Preamble Sequences for Load Balancing in Cellular Networks, *Proceedings of the 7th International Conference on Intelligent Sensors, Sensor Networks and Information Processing* (ISSNIP 2011), Dec 6-9, 2011, Adelaide, Australia, pp. 550-555.
- 154.Nan Liu and <u>Winston KG Seah</u>, Performance Evaluation of Routing Metrics for Community Wireless Mesh Networks, *Proceedings of the 7th International Conference on Intelligent Sensors, Sensor Networks and Information Processing* (ISSNIP 2011), Dec 6-9, 2011, Adelaide, Australia, pp. 556-561.
- 155.Muhammad Adeel Mahmood and <u>Winston KG Seah</u>, Event Reliability in Wireless Sensor Networks, *Proceedings of the 7th International Conference on Intelligent Sensors, Sensor Networks and Information Processing* (ISSNIP 2011), Dec 6-9, 2011, Adelaide, Australia, pp. 377-382.
- 156.<u>Winston KG Seah</u>, Alvin C Valera, Pius WQ Lee and YF Wong, Topology Skewing for Improved Route Selection in Wireless Multi-Hop Networks, *Best Paper Award*, *Proceedings of the 45<sup>th</sup> Hawaii International Conference on System Science* (HICSS-45), Maui, HI, USA, 4-7 Jan 2012, pp. 5669-5678. [A]
- 157.Juan Rada-Vilela, Mengjie Zhang and <u>Winston KG Seah</u>, A Performance Study on the Effects of Noise and Evaporation in Particle Swarm Optimization, *Proceedings of the IEEE Congress on Evolutionary Computation* (CEC), Brisbane, Australia, June 10-15, 2012, 8 pages. [A]
- 158.Jonathan P. Olds and <u>Winston KG Seah</u>, Design of an active radio frequency powered multi-hop wireless sensor network, *Proceedings of the 7th IEEE Conference on Industrial Electronics and Applications* (ICIEA 2012), Singapore, July 18-20, 2012, pp. 1721 1726. [A]
- 159.Yu Ren, <u>Winston KG Seah</u> and Paul Teal, Performance of Pressure Routing in Drifting 3D Underwater Sensor Networks for Deep Water Monitoring, invited paper, special session on Advances in Acoustic Communications, *Proceedings of the* 7<sup>th</sup> ACM International Conference on Underwater Networks and Systems (WUWNet), Los Angeles, CA, USA, November 5-6, 2012, 8 pages.
- 160.Juan Rada-Vilela, Mengjie Zhang and <u>Winston KG Seah</u>, Evaporation Mechanisms for Particle Swarm Optimization, *Proceedings of the 9<sup>th</sup> International Conference on Simulated Evolution and Learning*, Hanoi, Vietnam, 16-19 December 2012, pp. 238-247.

- 161. <u>Winston KG Seah</u> and Jonathan P. Olds, Data Delivery Scheme for Wireless Sensor Network Powered by RF Energy Harvesting, *Proceedings of the IEEE Wireless Communications and Networking Conference* (WCNC), Shanghai, China, April 7-10, 2013, pp. 1498 1503. [B]
- 162.L Fan, X Lei, Rose Q Hu and <u>Winston KG Seah</u>, Impact of Outdated Relay Selection on Two-way Relay Network, *Proceedings of the IEEE Wireless Communications and Networking Conference* (WCNC), Shanghai, China, April 7-10, 2013, pp. 3408-3413, pp. 3408-3413. [B]
- 163.Ming-Yuan Cheng, Yan-Bin Chen, Hung-Yu Wei and <u>Winston KG Seah</u>, Event-Driven Energy-Harvesting Wireless Sensor Networks for Structural Health Monitoring, *Proceedings of the 38<sup>th</sup> Annual IEEE Conference on Local Computer Networks* (LCN), Sydney, Australia, October 21-24, 2013, 8 pages. [A]
- 164.Kiattikul Sooksomsatarn, Ian Welch and <u>Winston KG</u> Seah, Security Analysis of a Protocol for Pollution Attacks Detection, poster, *Proceedings of the 38<sup>th</sup> Annual IEEE Conference on Local Computer Networks* (LCN), Sydney, Australia, October 21-24, 2013, 4 pages. [A]
- 165.Normalia Samian, <u>Winston KG Seah</u> and Aaron Chen, Quantifying Fairness and Selfishness in Wireless Multihop Networks, *Proceedings of the 38<sup>th</sup> Annual IEEE Conference on Local Computer Networks* (LCN), Sydney, Australia, October 21-24, 2013, 8 pages. [A]
- 166.Mike Witherden, Chris Tyler, Ramesh Rayudu and <u>Winston KG Seah</u>, Managing Peak Demand Using Direct Load Monitoring and Control, *Proceedings of the Australasian Universities Power Engineering Conference* (AUPEC), Hobart, TAS, Australia, September 29 –October 3, 2013, 6 pages.
- 167.Daniel Tomicek, YK Tham, <u>Winston KG Seah</u> and Ramesh Rayudu, Vibration-Powered Wireless Sensor for Structural Monitoring During Earthquakes, *Proceedings of the 6<sup>th</sup> International Conference on Structural Health Monitoring of Intelligent Infrastructure* (SHMII-6), Hong Kong, December 9-11, 2013, 10 pages. [A]
- 168.HI Liu, WJ He and <u>Winston KG Seah</u>, LEB-MAC : Load and Energy Balancing MAC Protocol for Energy Harvesting Powered Wireless Sensor Networks, *Proceedings of the 20<sup>th</sup> IEEE International Conference on Parallel and Distributed Systems* (ICPADS 2014), Hsinchu, Taiwan, December 16 – 19, 2014. (AR: 29.8%) [B]
- 169.DO Akinyele, R Rayudu, N Nair and <u>Winston KG Seah</u>, Clean Development Mechanism Projects for Developing Countries: Potential for Carbon Emissions Mitigation and Sustainable Development, *Proceedings of the 18th National Power Systems Conference* (NPSC), Guwahati, India, 18 20 December 2014.
- 170.D Burmester, R Rayudu and <u>Winston KG Seah</u>, Comparison Between Temperature and Current Sensing in Photovoltaic Maximum Power Point Tracking, *Proceedings of the 18th National Power Systems Conference* (NPSC), Guwahati, India, 18 20 December 2014.
- 171.Bryan Ng, Matthew Hayes and <u>Winston KG Seah</u>, Developing a Traffic Classification Platform for Enterprise Networks with SDN: Experiences & Lessons Learned, *Proceedings of the IFIP Networking 2015*, Toulouse France, 20-22 May 2015. (AR: 23.27%) [A]
- 172.Saurabh Singh, <u>Winston KG Seah</u> and Bryan Ng, Cluster-Centric Medium Access Control for WSNs in Structural Health Monitoring, *Proceedings of the 13<sup>th</sup> International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks* (WiOpt), Mumbai, India, 25-29 May 2015. [B]
- 173.Hang Yu, Bryan Ng and <u>Winston KG Seah</u>, Forwarding Schemes for EM-based Wireless Nanosensor Networks in the Terahertz Band, *Proceedings of the 2<sup>nd</sup> ACM International Conference on Nanoscale Computing and Communication* (NanoCom), Boston, MA, USA, 21-22 Sep 2015.
- 174.Lawrence Collingbourne and <u>Winston KG Seah</u>, Teaching Project using a Real-World Group Project, *Proceedings of the* 45th Annual Frontiers in Education (FIE) Conference, El Paso, Texas, USA, 21-24 Oct 2015. [A]

- 175.David Harrison, <u>Winston KG Seah</u> and Ramesh Rayudu, Coverage Preservation in Energy Harvesting Wireless Sensor Networks for Rare Events, *Proceedings of the 40<sup>th</sup> IEEE Local Computer Networks (LCN) Conference*, Clearwater Beach, Florida, USA, 26-29 Oct 2015. [A]
- 176.Daniel Burmester, Ramesh Rayudu and <u>Winston KG Seah</u>, Distributed Generation Nanogrid Load Control System, *Proceedings of the IEEE PES Asia Pacific Power and Energy Engineering Conference*, Brisbane, Australia, 15-18 November 2015.
- 177.M Kobayashi, Bryan Ng, <u>Winston KG Seah</u>, S Saruwatari and T Watanabe, TARC: Throughput-aware Random Scalable Clustering for Network MIMO, *Proceedings of the IEEE Global Communications Conference – Wireless Networks*, San Diego, CA, USA, 6-10 December 2015. [B]
- 178.Ying Qu, Bryan Ng and <u>Winston KG Seah</u>, A Goodput Distribution Model for IEEE 802.11 Wireless Mesh Networks, *Proceedings of 34<sup>th</sup> IEEE International Performance Computing and Communications Conference* (IPCCC), Nanjing, China, 14-16 December 2015. [B]
- 179.Bryan Ng, Alexander Deng, Ying Qu and <u>Winston KG Seah</u>, Changeover prediction model for improving handover support in campus area WLAN, *Proceedings of the IEEE/IFIP Network Operations and Management Symposium* (NOMS), Istanbul, Turkey, 25-29 April 2016. (Acceptance rate of "Modeling of Networks" track: 20.8%) [B]
- 180.Jordan Ansell, <u>Winston KG Seah</u>, Bryan Ng and Stuart Marshall, Making Queueing Theory More Palatable to SDN/OpenFlow-based Network Practitioners, *Proceedings of the 8<sup>th</sup> IEEE/IFIP International Workshop on Management of the Future Internet* (ManFl), co-located with IEEE/IFIP Network Operations and Management Symposium (NOMS), Istanbul, Turkey, 25-29 April 2016. [B]
- 181.Jonathan P Olds, <u>Winston KG Seah</u>, Ramesh Rayudu and KL Wang, Accurate GPS-based ENergy harvesting Operated Relative positioning (AGENOR) for Land Deformation Monitoring and Landslide Detection, Proceedings of the 1<sup>st</sup> International Conference on Natural Hazards and Infrastructure (ICONHIC), 28-20 June 2016, Chania, Crete, Greece.
- 182.Liang Yang, Bryan Ng and <u>Winston KG Seah</u>, Heavy Hitter Detection and Identification in Software Defined Networking, *Proceedings of the 25<sup>th</sup> International Conference on Computer Communication and Networks* (ICCCN), 1-4 August 2016, Waikoloa, HI, USA. [A]
- 183.Elliott Wen, <u>Winston KG Seah</u>, Bryan Ng, P. Liu and J. Cao, UbiTouch: Ubiquitous Smartphone TouchPads using Built-in Proximity and Ambient Light Sensors, *Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing* (UbiComp), 12-16 September 2016, Heidelberg, Germany. (Acceptance ratio: 18%) [A\*]
- 184.Y. Goto, H. Masuyama, Bryan Ng, <u>Winston KG Seah</u> and Y Takahashi, Queueing Analysis of Software Defined Network with Realistic OpenFlow-based Switch Model, *short paper*, *Proceedings of the IEEE 24<sup>th</sup> International Symposium on Modelling, Analysis and Simulation of Computer and Telecommunication Systems* (MASCOTS), September 19-21, 2016, Imperial College, London, UK. [A]
- 185.David Harrison, <u>Winston KG Seah</u>, Hang Yu and Ramesh Rayudu, Opportunistic Geographic Forwarding in Wireless Sensor Networks for Critical Rare Events, *short paper*, *Proceedings of the 41<sup>st</sup> IEEE Conference on Local Computer Networks* (LCN), November 7-10, 2016, Dubai, UAE. [A]
- 186.Normalia Samian, <u>Winston KG Seah</u>, Zuriati Ahmad Zukarnain, Azizol Abdullah and Zurina Hanapi, Recharge-As-Reward Mechanism to Incentivize Cooperative Nodes in Mobile Ad Hoc Networks, *short paper*, *Proceedings of the 41<sup>st</sup> IEEE Conference on Local Computer Networks* (LCN), November 7-10, 2016, Dubai, UAE. [A]
- 187.Daniel Burmester, Ramesh Rayudu and <u>Winston KG Seah</u>, Instantaneous Control of a DC Water Heater for a PV system, *Proceedings of POWERCON 2016*, September 28 October 1, 2016, Wollongong Australia.
- 188.Jarrod Bakker, Ian Welch and <u>Winston KG Seah</u>, Network-wide Virtual Firewall using SDN/OpenFlow, *Proceedings of the* 1<sup>st</sup> *International Workshop on Security in NFV-SDN* (SNS2016), in conjunction with the 2<sup>nd</sup> IEEE NFV-SDN conference, 7 Nov 2016, Palo Alto, CA, USA.

- 189.Y. Chen, Bryan Ng, <u>Winston KG Seah</u> and AC Pang, Modeling and Analysis: Energy Harvesting in the Internet of Things, *Proceedings of the 19<sup>th</sup> ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems* (MSWiM), November 13-17, 2016, Malta. (Acceptance ratio: 27%) [A]
- 190.Daniel Burmester, Ramesh Rayudu and <u>Winston KG Seah</u>, Instantaneous Nanogrid Control Using Maximum Power Point Tracking Signal, *Proceedings of the IEEE PES Innovative Smart Grid Technologies – Asia Conference* (ISGT-Asia), November 28 – December 1, 2016, Melbourne, Australia.
- 191.Hang Yu, Bryan Ng and <u>Winston KG Seah</u>, On-demand Efficient Polling for Nanonetworks under Dynamic IoT Backhaul Network Conditions, *Proceedings of the 35rd IEEE International Performance Computing and Communications Conference* (IPCCC), 9-11 December 2016, Las Vegas, USA. [B]
- 192.Hang Yu, Bryan Ng, <u>Winston KG Seah</u> and Ying Qu TTL-based Efficient Forwarding for the Backhaul tier in Nanonetworks, *Proceedings of the 14<sup>th</sup> Annual IEEE Consumer Communications & Networking Conference* (CCNC), 8-11 January 2017, Las Vegas, USA. [B]
- 193.Ying Qu, Bryan Ng, Hang Yu, Peter Andreae and <u>Winston KG Seah</u>, Fitness Evaluation for Channel Assignment Algorithms in IEEE 802.11 WMNs, Work-in-progress paper, *Proceedings of the 14<sup>th</sup> Annual IEEE Consumer Communications & Networking Conference* (CCNC), 8-11 January 2017, Las Vegas, USA. [B]
- 194.Liang Yang, Bryan Ng, <u>Winston KG Seah</u> and Lindsay Groves, Equivalent Forwarding Set Evaluation in Software Defined Networking, poster paper, *Proceedings of the IFIP/IEEE International Symposium on Integrated Network Management*, 8-12 May 2017, Lisbon, Portugal. [A]
- 195.Elliott Wen, <u>Winston KG Seah</u>, Bryan Ng, Xue Liu, Jiannong Cao and Xuefeng Liu, GBooster: Towards Acceleration of GPU-intensive Mobile Applications, *Proceedings of the 37<sup>th</sup> IEEE International Conference on Distributed Computing Systems* (ICDCS), Special Track: Applications and Experiences, June 5 – 8, 2017, Atlanta, GA, USA. [A]
- 196.Michael Baird, Bryan Ng and <u>Winston KG Seah</u>, WiFi Network Access Control for IoT Connectivity with Software Defined Networking, *Proceedings of the ACM Multimedia Systems Conference* (MMSys), Special Session on IoT connectivity and infrastructure, June 20-23, 2017, Taipei, Taiwan. [A]
- 197.Jakob Pfender and <u>Winston KG Seah</u>, Leveraging Localisation Techniques for Low-Level Data Fusion in Distributed Event Detection, *short paper*, *Proceedings of the 42<sup>nd</sup> IEEE Conference on Local Computer Networks* (LCN), October 9-12, 2017, Singapore. [A]
- 198.Liang Yang, Bryan Ng, <u>Winston KG Seah</u> and Lindsay Groves, Deterministic Confidence Interval Estimation of Networking Traffic in SDN, *Proceedings of the 42<sup>nd</sup> IEEE Conference on Local Computer Networks* (LCN), October 9-12, 2017, Singapore. [A]
- 199.Hang Yu, Bryan Ng and <u>Winston KG Seah</u>, Pulse Arrival Scheduling for Nanonetworks under Limited IoT Access Bandwidth, **Best Paper Award**, Proceedings of the 42<sup>nd</sup> IEEE Conference on Local Computer Networks (LCN), October 9-12, 2017, Singapore. [A]
- 200.Deepak Singh, Bryan Ng, YC Lai, YD Lin and <u>Winston KG Seah</u>, Modelling Software-Defined Networking: Switch Design with Finite Buffer and Priority Queueing, *short paper*, *Proceedings of the 42nd IEEE Conference on Local Computer Networks* (LCN), October 9-12, 2017, Singapore. [A]
- 201.Maria Libunao, Bryan Ng and <u>Winston KG Seah</u>, Autonomic Link Management in Wireless Backhaul Networks with OpenFlow and Traffic Prediction, *Proceedings of the IEEE/CIC International Conference on Communications in China* (ICCC), 22-24 October 2017, Qingdao, China.
- 202.Normalia Samian and <u>Winston KG Seah</u>, Trust-based Scheme for Cheating and Collusion Detection in Wireless Multihop Networks, *Proceedings of the 14<sup>th</sup> EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services* (MobiQuitous), 7-10 November 2017, Melbourne, Australia. [A]

- 203. Abigail Koay, Aaron Chen, Ian Welch and <u>Winston KG Seah</u>, A New Multi Classifier System Using Entropy-based Features in DDoS Attack Detection, *Proceedings of the 32<sup>nd</sup> International Conference on Information Networking* (ICOIN), 10-12 January 2018, Chiang Mai, Thailand. [B]
- 204.Jozef Mocnej, Adrian Pekar, <u>Winston KG Seah</u> and Iveta Zolotova, Decentralised IoT Architecture for Efficient Resources Utilisation, *Proceedings of the 15th IFAC Conference on Programmable Devices and Embedded Systems* (PDeS), 23-25 May 2018, Ostrava, Czech Republic.
- 205.Hang Yu, Bryan Ng and <u>Winston KG Seah</u>, Multi-gateway Polling for Nanonetworks under Dynamic IoT Backhaul Bandwidth, *Proceedings of the 2018 International Workshop on Molecular, Biological and Multiscale Communications*, co-located with the 15th IEEE International Conference on Sensing, Communication and Networking (SECON), 11-13 June 2018, Hong Kong. [B]
- 206.Michael Emmanuel, <u>Winston KG Seah</u> and Ramesh Rayudu, Communication Architecture for Smart Grid Applications, *Proceedings of the IEEE Symposium on Computers and Communications* (ISCC), 25-28 June 2018, Natal, Brazil. [B]
- 207.Deepak Singh, Bryan Ng, YC Lai, YD Lin and <u>Winston KG Seah</u>, Modelling Switches with Internal Buffering in Software-Defined Networks, *Proceedings of the 27th International Conference on Computer Communication and Networks* (ICCCN 2018), July 30 -August 2, 2018, Hangzhou, China. [A]
- 208.Jarrod Bakker, Bryan Ng and <u>Winston KG Seah</u>, Can Machine Learning Techniques be effectively used in real networks against DDoS attacks?, *Proceedings of the 8<sup>th</sup> International Workshop on Internet on Things: Privacy, Security and Trust* (IoTPST 2018), co-located with 27<sup>th</sup> International Conference on Computer Communication and Networks (ICCCN), July 30 -August 2, 2018, Hangzhou, China.
- 209.Jakob Pfender, Alvin Valera and <u>Winston KG Seah</u>, Performance Comparison of Caching Strategies for Information-Centric IoT, *Proceedings of the 5th ACM Conference on Information-Centric Networking* (ICN), 21-23 September 2018, Boston, MA, USA.
- 210.Jarrod Bakker, Bryan Ng, <u>Winston KG Seah</u> and Adrian Pekar, Traffic classification with machine learning in a live network: Experience and Lesson learned, *Proceedings of the IM 2019 Experience Sessions*, 8-12 April 2019, Washington DC, USA. [A]
- 211.Adrian Pekar, Mona BH Ruan, and <u>Winston KG Seah</u>, Angular Histogram-Based Visualisation of Network Traffic Flow Measurement Data, *Proceedings of the 33<sup>rd</sup> International Conference on Advanced Information Networking and Applications* (AINA-2019), 27- 29 March 2019, Kunibiki Messe, Matsue, Japan. [B]
- 212.Murugaraj Odiathevar, <u>Winston KG Seah</u> and Marcus Frean, A Hybrid Online Offline System for Network Anomaly Detection, *Proceedings of the 28th International Conference on Computer Communication and Networks* (ICCCN), July 29 August 1, 2019, Valencia, Spain. [A]
- 213.Jordan Ansell, Bryan Ng and <u>Winston KG Seah</u>, Validating the Accuracy of Analytical Modelling in Software Defined Networks, *Proceedings of the 21<sup>st</sup> IEEE International Conference on High Performance Computing and Communications* (HPCC-2019), 10-12 August 2019, Zhangjiajie, China. [B]
- 214. Abigail Koay, Ian Welch and <u>Winston KG Seah</u>, Effectiveness of Entropy-based Features in High- and Low-Intensity DDoS Attack Detection, *Proceedings of the 14<sup>th</sup> International Workshop on Security* (IWSEC 2019), 28-30 August 2019, Tokyo, Japan. [B]
- 215.Jakob Pfender, Alvin Valera and <u>Winston KG Seah</u>, Easy as ABC: A Lightweight Centrality-Based Caching Strategy for Information-Centric IoT, *Proceedings the 6<sup>th</sup> ACM Conference on Information-Centric Networking* (ICN), 24-26 September 2019, Macau, China.
- 216.Alejandra Duque-Torres, Adrian Pekar, <u>Winston KG Seah</u> and Oscar Mauricio Caicedo Rendon, Heavy-Hitter Flow Identification in Data Centre Networks using Template Matching, *Proceedings of the 44<sup>th</sup> IEEE Conference on Local Computer Networks* (LCN), October 14-17, 2019, Osnabrück, Germany. [A]

- 217.SM Kala, V Sathya, <u>Winston KG Seah</u> and BR Tamma, CIRNO: Leveraging Capacity Interference Relationship for Dense Networks Optimization, accepted by the IEEE Wireless Communications and Networking Conference (WCNC), 6-9 April 2020, Seoul, South Korea.
- 218.Duncan Cameron, Alvin Valera and <u>Winston KG Seah</u>, ElasticWISP Energy-Proportional WISP Networks, accepted by the 17<sup>th</sup> IEEE/IFIP Network Operations and Management Symposium (NOMS 2020), 20-24 April 2020, Budapest, Hungary.