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ACADEMIC QUALIFICATIONS

- Ph.D. , University of London (University College London), 1999

- M.Sc. in Data Communication Networks and Distributed Systems, University of London (University College London), 1995

- B.Sc. in Computer Science, Universiti Kebangsaan Malaysia, 1992

PUBLICATIONS

BOOK

Mazliza Othman, "Principles of Mobile Computing & Communications", Auerbach Publications, New York, 2007 (ISBN: 1-4200-6158-5)

CHAPTERS IN BOOK

1. May Zin Oo and **Mazliza Othman**, "The Effect of Packet Losses and Delay on TCP Traffic over Wireless Ad Hoc Networks", in "Theory and Applications of Ad Hoc Newtorks", INTECH Book Publication, January 2011 (ISBN: 978-953-307-416-0)

2. Rodina Ahmad dan **Mazliza Othman**, "Perspektif Persediaan Graduan Teknologi Maklumat dan Komunikasi di Malaysia" dalam Nik Aziz Nik Pa, "Perjuangan Memperkasakan Pendidikan di Malaysia", 2008, Utusan Publications & Distributors, Kuala Lumpur, Malaysia

3. Maizatul A. Ismail, Rafidah Md-Noor, **Mazliza Othman**, "Short Message Service (SMS) and Its Applications" in "Mobile Commerce Applications", Nan Si Shi (Ed.), Idea Group Inc, 2004, pp.179-202

JOURNAL PAPERS

1. Atta R. Khan, **Mazliza Othman**, A.Nasir Khan, Junaid Shuja, Saad Mustafa, "Computation Offloading Cost Estimation in Mobile Cloud Application Models", Wireless Personal Communications, Published online: 9 August, 2017

2. Fadele Ayotunde Alaba, **Mazliza Othman**, Ibrahim Abaker Targio Hashem, Faiz Alotaibi, "Internet of Things Security: A Survey", Journal of Network and Computer Applications, Volume 88, 15 June 2017

3. May Zin Oo, **Mazliza Othman**, Timothy O'Farrel, "A Proxy Acknowledgement Mechanism for TCP Variants in Mobile Ad Hoc Networks", Journal of Communications and Networks, Vol. 18, No. 2, April 2016

4. Atta R. Khan, **Mazliza Othman**, F. Xia, A. Nasir Khan, "Context-Aware Mobile Cloud Computing and Its Challenges", IEEE Cloud Computing, Volume 2, Issue 3, May/June 2015

5. Atta R. Khan, **Mazliza Othman**, A. Nasir Khan, Shahbaz A. Abid, Sajjad A. Madani, "MobiByte: An Application for Mobile Cloud Computing", Journal of Grid Computing, April 2015

6. Shahbaz A. Abid, **Mazliza Othman** and Nadir Shah, "A Survey on DHT-Based Routing for Large-Scale Mobile Ad Hoc Networks, ACM Computing Surveys, Vol. 47 Issues 2, August 2014

7. Sardar M. Bilal, Atta ur Rehman Khan, Samee Ullah Khan, Sajjad Madani, Babar Nazir and **Mazliza Othman**, "Road Oriented Traffic Information System for Vehicular Ad Hoc Networks", Wireless Personal Communications, Vol. 77, Issue 4, August 2014, pp 2497-2515 (published online on 26 February, 2014)

8. Junaid Shuja, Kashif Bilal, Sajjad A. Madani, **Mazliza Othman**, Rajiv Ranjan, Pavan Balaji and Samee. U. Khan, "Survey of Techniques and Architectures for Designing Energy-Efficient Data Centers", accepted for publication in IEEE Systems Journal

9. Shahbaz A. Abid, **Mazliza Othman** and Nadir Shah, "3D P2P Overlay over MANETs", Computer Networks, Vol. 64, 8 May, 2014

10. Atta R. Khan, **Mazliza Othman**, Mazhar Ali, A. Nasir Khan and Sajjad A. Madani, "Pirax: Framework for Application Piracy Control in Mobile Cloud Environment", Journal of Supercomputing, May 2014, Vol. 68, Issue 2, pp 753-776 (published online on 1 December, 2013), DOI: 10.1007/s11227-013-1016-1

11. Atta ur Rehman Khan, **Mazliza Othman**, Sajjad A. Madani, Samee U. Khan, "A Survey of Mobile Cloud Computing Application Models", IEEE Communication Surveys & Tutorials, Vol. 16, Issue 1, 2014

12. Shahbaz A. Abid, **Mazliza Othman**, Nadir Shah, Mazhar Ali, Atta R. Khan, "3D-RP: A DHT-based Routing Protocol for MANETs", The Computer Journal, Published online 7 February, 2014

13. Shahbaz A. Abid, **Mazliza Othman** and Nadir Shah, "Exploiting 3D Structure for Scalable Routing in MANETs", IEEE Communications Letters, Volume 17 No. 11, November 2013

14. May Zin Oo and **Mazliza Othman**, "Analytical Studies of Interaction between Mobility Models and Single Multi-Paths Routing Protocols in Mobile Ad Hoc Networks", Wireless Personal Communications, Vol. 64, No. 2, 2012, page 379-402, DOI: 10.1007/s11277-010-0205-3 (Published online on 4 December, 2010)

15. May Zin Oo and **Mazliza Othman**, "Proxy-Assisted Routing for Efficient Data Transmission in Mobile Ad Hoc Networks", Wireless Networks, Volume 17, Number 8, 2011, DOI:10.1007/s11276-011-0380-5 (Published online on 31 August, 2011)

16. Shafinaz Buruhanudeen, Mohamed Othman, Borhanuddin Mohd Ali, **Mazliza Othman**, "CBE-ABR: A Cluster Based Enhanced Routing Protocol for Ad Hoc Mobile Networks", International Journal of Computer Networks & Communications (IJCNC), Vol. 1, No. 3, October 2009

17. Norleyza Jailani, Noor Faezah Mohd Yatim, Yazrina Yahya, Ahmed Patel, and **Mazliza Othman**, "Secure and Auditable Agent-Based e-Marketplace Framework for Mobile Users", Elsevier *Computer Standards & Interfaces*, Volume 30 Issue 4, May 2008, pp. 237-252

18. **Mazliza Othman** and Rodziah Latih, "Women in Computer Science: No Shortage Here!", *Communications of the ACM* 49, Issue 3 (2006):111

19. **Mazliza Othman**, Mobile Computing and Communications: An Introduction, *Malaysian Journal of Computer Science* 12, No. 2 (1999):71

20. **Mazliza Othman** and Stephen Hailes, "Power Conservation Strategy for Mobile Computers Using Load Sharing", *Mobile Computing and Communications Review* 2, No. 1 (1998):44

CONFERENCE PAPERS

1. Aye Z. Minn, May Zin Oo, **Mazliza Othman**, "Analysis of GPS nd Zone-based Vehicular Routing on Urban City Road", 2015 International Conference on Data Mining, Electronics and Information Tehnology (DMEIT '15), 10-11 August, 2015, Pattaya, Thailand

2. May Zin Oo, **Mazliza Othman**, Su Su Hlaing, "Energy Consumption Measurement of a Data Center in GreenCloud Simulator", Proc. of the 1st International Conference on Energy, Environment and Human Engineering (ICEEHE 2013), Kantawgi Palace Hotel, Yangon, 21-23 December, 2013

3. Atta R. Khan, **Mazliza Othman** and Abdul Nasir Khan, "A Novel Application Licensing Framework for Mobile Cloud Environment", Proc. of the International Conference on Future Trends in Computing & Communication Technologies, Beijing, China, December 2013

4. Atta R. Khan, Shahzad Ali, Saad Mustafa and **Mazliza Othman**, "Impact of Mobility Models on Clustering-based Routing Protocols in Mobile WSNs", Proc. of the 2012 10th International Conference on Frontiers of Information Technology, 17 - 19 December, 2012, Islamabad, Pakistan

5. Atta R. Khan, **Mazliza Othman**, Abdul Nasir Khan and Imran A. Khan, "Framework for Ubiquitous Social Networks", Proc. of the 1st International Conference on Future Trends in Computing and Communication Technologies, 13 - 15 December, 2012, Melaka, Malaysia

6. Atta R. Khan, Sardar M. Bilal and **Mazliza Othman**, "A Performance Comparison of Open Source Network Simulators for Wireless Networks", Proc. of the IEEE International Conference on Control System, Computing and Engineering, 23 - 25 November, 2012, Penang, Malaysia

7. May Zin Oo and **Mazliza Othman**, "Analysis of Single-Path and Multi-Path AODV over Manhattan Grid Mobility Models for Mobile Ad Hoc Network", Proc. of the 2010 International Conference on Electronics and Information Engineering (ICEIE 2010), Kyoto, Japan, 1-3 August, 2010

8. May Zin Oo and **Mazliza Othman**, "Performance Comparisons of AOMDV and OLSR Routing Protocols for Mobile Ad Hoc Networks", Proc. of the 2nd International Conference on Computer Engineering and Applications (ICCEA 2010), Vol. 1, pp 129-133, March 2010, Bali, Indonesia (ISBN: 978-0-7695-3982-9)

9. **Mazliza Othman** and May Zin Oo, "Analysis of TCP-Reno and TCP-Vegas over AOMDV Routing Protocol for Mobile Ad Hoc Networks", Proc. of the 12th International Conference

on Advanced Communication Technology (ICACT 2010), pp. 1104-1108, 7 - 8 February, 2010, Phoenix Park, Korea (ISBN:978-89-5519-145-5)

10. May Zin Oo and **Mazliza Othman**, "How Good Delayed Acknowledgement Effects Rate-Based Pacing TCP over Multi-hop Wireless Network", 2009 International Conference on Signal Processing Systems, 15 - 17 May, 2009, Singapore (ISBN: 978-0-7695-3654-5)

11. May Zin Oo and **Mazliza Othman**, "How Badly TCP Suffers from Packet Losses and Delays over Wireless Ad Hoc Network", 2009 International Conference on Future Computer & Communications (ICFCC 2009), 3 - 5 April, 2009, Kuala Lumpur, Malaysia (ISBN: 978-0-7695-3591-3)

12. Shafinaz Buruhanudeen, Mohamed Othman, Borhanuddin Mohd Ali and **Mazliza Othman**, "CB-ABR: A Cluster-based On-Demand Routing Protocol with Load Balancing for Ad Hoc Mobile Networks", Proc. of the International Conference on Wireless Networks (ICWN '08), 14 - 17 July, 2008, Las Vegas, Nevada, USA

13. Shafinaz Buruhanudeen, Mohamed Othman, **Mazliza Othman** and Borhanuddin Mohd Ali, "Mobility Models, Broadcasting Methods and Factors Contributing Towards the Efficiency of MANET Routing Protocols: Overview", *Proc. of the 14th Int. Conference on Telecommunications and 8th Malaysia Int. Conference on Communications (ICT - MICC 2007)*, 14 - 17 May, 2007

14. Shafinaz Buruhanudeen, Mohamed Othman, **Mazliza Othman** and Borhanuddin Mohd Ali, "Existing MANET Routing Protocols and Metrics Used Towards the Efficiency and Reliability - An Overview", *Proc. of the 14th Int. Conference on Telecommunications and 8th Malaysia Int. Conference on Communications (ICT - MICC 2007)*, 14 - 17 May, 2007

15. Fazidah Othman and **Mazliza Othman**, "Agent-oriented Modeling Framework for Machine Translation Tools", *Proc. of Computer Science & Mathematics Symposium 2006 (CSMS 2006)*, KUSTEM, Kuala Lumpur, 8-9 November, 2006

16. Norleyza Jailani, Mohd Fauzan Abbas, **Mazliza Othman** and Mohamad Shanudin Zakaria, "Bidding Agent Strategies in a Dutch Auction Marketplace", *Proc. of the 4th Asian International Mobile Computing Conference (AMOC 2006), Tata McGraw-Hill*, pp. 287-294, 4 - 7 January, 2006, Kolkata, India (ISBN 0-07-060834-2)

17. Norleyza Jailani and **Mazliza Othman**, "Penggunaan Agen Pembida untuk Pengagihan Sumber dalam Pasaran Lelong Belanda", *Prosiding Persidangan Kebangsaan Sains Pengaturcaraan 2005*, m.s. 254-265, Putrajaya, Malaysia, 1 Disember 2005 (ISBN 983-41293-4-3)

18. Ardit Llazani and **Mazliza Othman**, "SMSBanking: An M-Commerce Application Based on User Requirement Survey", *Proc. of the 3rd Asian International Mobile Computing Conference 2004 (AMOC 2004)*, 26 - 28 May 2004, Bangkok, Thailand, pp. 70-76 (ISBN:974-537-487-3)

19. **Mazliza Othman** and Bikesh Lakhmichand, "TransSMS: A Multi-Lingual SMS Tool", *Proc. of HCI International Conference 2003 (HCI 2003)*, Volume 4, pp. 1173-1177, 22 - 27 June, 2003, Crete, Greece (ISBN: 0-8058-4933-5)

20. Norleyza Jailani and **Mazliza Othman**, "Secure Agent-based Marketplace Model for Resources and Supplier Brokering", *Proc. of the 2nd Asian Int. Mobile Computing Conference (AMOC 2002)*, 14 - 17 May 2002, Langkawi, Malaysia, pp. 88-97 (ISBN:983-40633-1-8)

21. Fathi Taibi and **Mazliza Othman**, A Proposed Bluetooth Service-level Security, *Proc. of the Int. Conf. on Information Technology and Multimedia (ICIMU 2001)*, 13-15 August, 2001, Selangor, Malaysia, pp. 322-327

22. **Mazliza Othman** and Stephen Hailes. "Load Balancing as a Power Conservation Strategy for Mobile Computers", *Proceedings of IEEE Malaysia International Conference on Communications 1997*, Kuala Lumpur, Malaysia, November 1997

TALKS / SEMINAR PRESENTATIONS

1. Shafinaz Buruhanudeen, Mohamed Othman, Borhanuddin Mohd Ali, **Mazliza Othman**, "Performance Comparison of MANET Associativity Based Routing (ABR) and the Improvisation Done for a More Reliable and Efficient Routing", The 3rd Information and Communication Technology Seminar (ICTS) 2007, Surabaya, Indonesia, 11 September, 2007

2. **Mazliza Othman**, "Pervasive Computing: A Disappearing Technology", Plenary Talk, International Conference on Network and Mobile Computing (NMC 2006), 28 - 29 August, 2006, Nilai, Selangor.

3. **Mazliza Othman**, Teknologi Maklumat dan Masyarakat, September 2001, Hotel Cititel, Kuala Lumpur

BOOK TRANSLATION

Behrouz Forouzan, Mazliza Othman (Editor), "Komunikasi Data dan Perangkaian", translated from Behrouz Forouzan, "Data Communication and Networking", Mc-Graw Hill, 2nd Edition, 2001.

RESEARCH GRANTS

1. "A DHT or DHT -Inspired Logical Address Structure Based Paradigm For Scalable Routing in Mobile Ad Hoc Networks", Principal Investigator, Postgraduate Research Grant, 2013 - 2015

2. "Efficient Data Transfer Protocol With Proxy Assistance For Wireless Ad Hoc Network", Postgraduate Research Grant, - 2010 - 2011

3. "An Efficient Data Tranfer Control Protocol (EDTP) For Mobile Ad Hoc Networks (MANETs)", Principal Investigator, Geran Penyelidikan Universiti Malaya (UMRG), 2009 - 2011

4. "Predicting The Survivability of Ad hoc Networks", Principal Investigator, Geran Penyelidikan Universiti Malaya (UMRG), 2008

5. "Framework For Interoperability Between PANs and WLANs, Principal Investigator, 2008,

6. "Efficient Data Transfer Protocol (EDTP) For Wireless Ad-Hoc Network", Postgraduate Research Grant, 2007 - 30/11/2008

ADMINISTRATIVE POSTS

1. Coordinator, Master of Computer Science Programme (1999 – October 2002)

2. Head, Dept. of Computer Systems and Technology (November 2000 – October 2002)

(I found that don't enjoy doing administrative work much.)

EDITORIAL / REVIEWER / TPC

1. Editor-in-Chief, Wireless Communication Technology, PiscoMed Publishing Pte Ltd, 2016-2019

2. Editorial Board Member, Malaysian Journal of Computer Science, 2014 - 2016

3. Association of Scientists, Developers and Faculties (ASDF)

4. Reviewers for:

   - IEEE Systems Journal

   - Computer Science Review, Elsevier

   - Pervasive and Mobile Computing Journal, Elsevier

   - Journal of Information & Communication Technology (JICT), 2009

   - International Journal of Cases on Electronic Commerce (IJCEC), 2004-2006

5. Malaysian Journal of Computer Science

6. Journal of Information & Communication Technology (JICT)

7. Wireless Networks Journal

8. Ad Hoc Reviewer, International Journal of Cases on Electronic Commerce (IJCEC), 1 December 2004 – 30 November 2006

9. Editorial Board, Malaysian Journal of Computer Science, 2001 – 2003

TECHNICAL PROGRAMME COMMITTEES

1. 1st International Conference on Next Generation Computing Technologies (NGCT2015)

2. Frontiers of Information Technology (FIT 2015)

3. Asia Pacific World Congress on Computer Science and Engineering (APWC on CSE), 2014

4. International Conference on Computer & Information (ICCOINS), 2014

5. IEEE TENCON, 2012

6. 5th International Conference on IT and Multimedia, 2011

7. International Conference on Computer Applications (ICCA) 2010, Pondicherry, India.

8. 4th Asian International Mobile Computing Conference (AMOC), Kolkata, India, 4 – 7 January, 2006.

9. 3rd Asian International Mobile Computing Conference (AMOC), Bangkok, Thailand, 26 – 28 May, 2004.

10. Co-Chair, 2nd Asian International Mobile Computing Conference (AMOC), Langkawi, Malaysia 15 – 17 May, 2002.

11. Co-Chaired the 1st Asian International Mobile Computing Conference (AMOC), Penang, Malaysia 30 October – 3 November, 2000

12. Co-founded the Asian International Mobile Computing Conference (AMOC) in 2000

CONSULTATION

1. Academic Consultant, First City University College, 2016

2. PhD Expert Advisor Panel, Universiti Putra Malaysia (UPM), 2007 - 2010

3. MSC Development Grant Scheme (MGS) Technology Assessment Consultant, 2008, Multimedia Development Corporation (MDEC)

4. Expert Advisor, 2007-2007, Ministry of Science, Technology and Innovation, Malaysia (MOSTI), 2007

5. Network Simulation Tool (NeST) for UMTS, Telekom Malaysia Research & Development, February – August 2004

6. Evaluation Panel of IGS Grant Scheme, "Integrated Iris Bio-Authentication Networking System for Secure Electronics and Mobile Commerce", May 2004

TEACHING

Undergraduate Courses

- Operating Systems
- Basic to Programming
- Network Technology
- Mobile Computing
- Network Design and Management
- Network Security
- Emerging Network Technology

Postgraduate Courses

- Distributed Systems
- Advanced Network Technology
- Mobile Technology

PROFESSIONAL MEMBERSHIPS

- Member of the Association for Computing Machinery (ACM).
- Member of IEEE Computer Society.