



CURRICULUM VITAE



Zuriati Ahmad Zukarnain

Deputy Dean
(Development, Industry and Community Relation)
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ACADEMIC QUALIFICATION

1. **PhD in Quantum Computation and Information**, University of Bradford, UK (2005)
2. **MSc in Information Technology**, Universiti Putra Malaysia (2000)
3. **BSc Hons (Physics)**, Universiti Putra Malaysia (1997)

AREAS OF INTEREST

Quantum Computing, Network Security and Wireless Networks

BRIEF CAREER HISTORY

1. **Professor**, Sept 2017 - Department of Communication Technology and Networks, Faculty of Computer Science and Information Tecnology
2. **Associate Professor**, June 2011 - Sept 2017, Department of Communication Technology and Networks, Faculty of Computer Science and Information Tecnology
3. **Senior Lecturer**, June 2008 - June 2011, Department of Communication Technology and Networks, Faculty of Computer Science and Information Tecnology
4. **Lecturer**, June 2000 - Department of Communication Technology and Networks, Faculty of Computer Science and Information Tecnology
5. **Industry Attachment at Cyber Security Malaysia** April 2015 - June 2015
6. **Deputy Dean (Industry and Community Relations)**, December 2017-present, Faculty of Computer Science and Information Tecnology.
7. **Head of Section High Performance Computing**, June 2011-Sept 2015, Institute of Mathematical and Research, UPM.
8. **Head of Department**, June 2006-May 2011, Department of Communication Technology and Networks, Faculty of Computer Science and Information Tecnology.
9. **Diploma Coordinator for subject Computer Security**, March 2006 - May 2011, Diploma Program, UPM.

CURRENT RESEARCH AREAS / TOPICS

1. Enhanced Tight Finite Key Scheme for Quantum Key Distribution (QKD) Protocol to Authenticate Multi-Party System in Cloud Infrastructure (FRGS/2/2013/ICT03/UPM/02/5, RM 76600.00, October 2016 – September 2018), as Principle Researcher.
2. Development of Quantum Communication Simulator for Quantum Experiment and Quantum Communication (PRGS/1/2016/ICT03/UPM/02/1, RM72000.00, June 2017 – May 2019), as Principle Researcher.
3. A Development of Quantum Communication Simulator (QuCS) for Practical Implementation and Testing of Unconditional Security using Quantum Technology (UPM/700-2/1/GPB/2017/9521300) 2014, RM 99951.00, October 2017 – September 2019), as Principle Researcher.

NUMBER OF POSTGRADUATE STUDENTS SUPERVISED

Program	Status	As a Chairman (Main Supervisor)	As a Member (Co-supervisor)
PhD	Graduated	8	10
	Ongoing	4	8
Masters (with thesis)	Graduated	2	5
	Ongoing		
Masters (without thesis)	Graduated	13	
	Ongoing		

ACHIEVEMENTS / AWARDS

1. Distinguished Woman In Computer Science at 4th Venus International Women Awards - VIWA 2019.
2. World Woman Science Grand Award at the 3rd World Scientis Awards (WSA)2016 in Seoul, South Korea.
3. Innovative Inventor Grand Award for Order of Merit:Information Technology at the 5th World Inventor Award Festival (WIAF)2016 in Seoul, South Korea.
4. Visiting Professor by the Korea Invention Academy(KIA) took effect from 4th December 2016.
5. Gold Medal at the 2016 International Invention Innovation Competition in Canada, iCAN 2016
6. Special Award at the 2016 International Invention Innovation Competition in Canada, iCAN 2016

JOURNAL / PUBLICATIONS

1. Nur Ziadah Harun, **Zuriati Ahmad Zukarnain**, Zurina Mohd Hanapi and Idawaty Ahmad, 2019. Hybrid M-Ary in Braided Single Stage Approach for Multiphoton Quantum Secur Direct Communication Protocol. *IEEE Access*, 1(7), pp. 22599 - 22612. IF=3.244 (Q1)
 2. Qadori, H.Q., **Zulkarnain, Z.A.**, Hanapi, Z.M., Subramaniam, S., Mohamed A. Alrshah 2018. CMIP: Clone Mobile-Agent Itinerary Planning Approach for Enhancing Event-to-Sink Throughput in Wireless Sensor etworks. *IEEE Access*, 1(6), pp. 71464-71473. IF=3.244 (Q1)
 3. Qadori, H.Q., **Zulkarnain, Z.A.**, Hanapi, Z.M., Subramaniam, S. 2018. FuMAM: Fuzzy-Based Mobile Agent Migration Approach for Data Gathering in Wireless Sensor Networks. *IEEE Access*, 1(6), pp. 15643-15652. IF=3.244 (Q1)
 4. Nur Ziadah Harun, **Zuriati Ahmad Zukarnain**, Zurina Mohd Hanapi and Idawaty Ahmad, 2018. Evaluation of Parameters Effect in Multiphoton Quantum Key Distribution Over Fiber Optic. *IEEE Access*, 1(6), pp. 47699-47706. IF=3.244 (Q1)
 5. Al-Kharasani, N.M., **Zulkarnain, Z.A.**, Subramaniam, S., Hanapi, Z.M. 2018. An Efficient Framework Model for Optimizing Routing Performance in VANETs. *Sensors*, 18(2), 10.3390/s18020597 pp. 1-21. IF=2.677 (Q1)
 6. Abdullah, R.M., **Zukarnain, Z.A.** 2017. Enhanced Handover Decision Algorithm in Heterogeneous Wireless Network. *Sensors*, 17(7), pp. 1-14. IF=2.677 (Q1)
 7. Qadori, H.Q., **Zulkarnain, Z.A.**, Hanapi, Z.M., Subramaniam, S. 2017. A Spawn Mobile Agent Itinerary Planning Approach for Energy-Efficient Data Gathering in Wireless Sensor Networks. *Sensors*, 17(6), pp. 1-16. IF=2.677 (Q1)
 8. Abdullah, R.M., **Zukarnain, Z.A.**, Iqbal, R. 2017. Improved Fast Handover Method for Multiple Node by Using Mobile Nodes Guide. *Telecommunication Systems*, 13(2), pp. 51-64. IF=1.542 (Q3)
 9. Huthiafa Q Qadori, **Zuriati A Zukarnain**, Zurina Mohd Hanapi and Shamala Subramaniam. 2017. Multi-mobile agent itinerary planning algorithms for data gathering in wireless sensor networks: A review paper. *International Journal of Distributed Sensor Networks*, 13(2), pp. 51-64. IF=1.239 (Q3)
 10. Radhwan M. Abdullah and **Zuriati Ahmad Zukarnain**. 2016. Improved Fast Handover Method for Multiple Node Using the Guide of Mobile Nodes. *Telecommunication Systems*
- DOI: 10.1007/s11235-016-0183-1. IF=0.705 (Q3)