Mohd Noor Derahman

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Education

2002 **Master of Computer Science(Computer Communication Engineering)**, *Faculty of Engineering*, University Putra Malaysia, Malaysia.

1997 **Bachelor of Computer Science**, *Faculty of Science*, University Putra Malaysia, Malaysia.

Research Interest

Computer Network, Distributed Heterogeneous Systems and Networking

Dissertation/Thesis

Master Thesis

Title | *Fiber to the Home Architecture*
Supervisor | Professor Mohamad Khazani Abdullah

Degree Thesis

Title | *Request Driven Information for Software Engineering*
Supervisor | Professor Dr Abdul Azim Abd Ghani

Experience

July 2003 - **Lecturer**, *Department of Computer Communication*, UPM.

Jul 1999 - **Tutor**, *Department of Computer Communication*, UPM.
Jun 2003

May 1997 - **Associate Network Engineer**, *Accurate Network System Integration Sdn*
Jun 1999 *Bhd*, Seri Kembangan.
Installation, commissioning and maintenance of network system and operating system such as CISCO and Sun Micro system Server

July 1995 - **Demonstrator**, *Universiti Pertanian Malaysia*, Malaysia, Demonstrator of
April 1997 Networking Class; Teaching how to install Linux operating system.

Teaching Experience

Operating System

Computer Communication And Network

Network Analysis And Design

Data Structure

Distributed System

Advanced Distributed System

Computer skills

Programming Languages	Python, Advanced JAVA
Web Technologies	HTML 5, PHP, JSP, Javascript
Database	SQL, MySQL, Apache
Others	LaTex, WinEdt, Microsoft Visio

Publications

Journal Articles

S. S. Murad, R. Badeel, N. Salih, A. Alsandi, R. Faraj, A. R. Ahmed, A. Muhammed, M. Derahman, N. Alsandi, *2022*, Optimized Min-Min task scheduling algorithm for scientific workflows in a cloud environment, Vol 100.
pp. 480-506

R. Linsheng, M. N. Derahman, M. F. A. Kadir, M. A. Mohamed, S. Kamarudin, *2022*, The performance effect due to varying network topologies on a software- defined network employing the k-shortest path, International Journal of Advanced and Applied Sciences, 9(6) 2022, Pages: 134-14.

Shafinah Kamarudin, Christopher Punzalan, Mohd Noor Derahman, *The Students' Self Perception on Learning C++ Programming via the Cryptography Project: A Case Study*, 2022, International Journal of Academic Research in Progressive Education and Development.
Issue 2 Pages 1534 - 1544 Publisher Human Resource Management Academic Research Society

M. N. Derahman, *2020*, Conzone: Congestion Control in Mobile Ad-Hoc Network for Reliable Crowdsourcing, International Journal of Advanced Research in Engineering and Technology (IJARET).
Vol 11 Issue 12

Mohammad Ali Khoshkholghi, Mohd Noor Derahman, Azizol Abdullah, Shamala Subramaniam, Mohamed Othman, *2017*, Energy-efficient algorithms for dynamic virtual machine consolidation in cloud data centers, IEEE Access.
Vol 5

R. Hussin, M., Derahman, M.N., Jalal, S.F., Latip, *2017*, Trust-aware scheduling for tasks with precedence constraints in heterogeneous distributed computing, Journal of Engineering and Applied Sciences.
Vol 12 Issue 13

Mohd Noor Derahman, Ahmad Shakir Roslan, Fahrul Hakim Ayob, *2016*, Quantum Time Task Scheduling Technique in Novel Hybrid Shortest Job First and Round Robin.

Mohammad A Khoshkholghi, Azizol Abdullah, Shamala Subramaniam, Mohamed Othman, Mohd N Derahman, *2016*, A taxonomy and survey of power management strategies in cloud data centers, Int J Commun Antenna Propag.
Vol 6 Issue 5

Mohamed Afendee Mohamed, MN Derahman, A Muhammed, *2015*, On the Improved Distance Vector Routing Protocol for UDP Traffic, Contemporary Engineering Sciences.
Vol 8 Issue 15 pp. 653-666

M. N. Derahman, A. Malekmohammadi, G. Gnanagurunathan, M. K. Abdullah, K. Dimyati, K. A. Noordin, *2015*, Performance Improvement of Duty-Cycle Division Multiplexing System Utilizing Symbol Coding Customization, WSEAS TRANSACTIONS on COMMUNICATIONS.
Vol 14

M. N. Derahman, M. A. Mohamed, A. Muhamed, A. Abdullah, M. N. Basery, S. Baharom, Mohamad Khazani Abdullah, *Home Switch Automation System Based on Ultra Low Power Wireless Solution*, International Journal of Information Processing and Management, Vol 5 Issue 2 pp 58.

Faten A. Saif, M. N. Derahman, Ali A. Alwan, Rohaya Latip, *2019*, Performance Evaluation of Task Scheduling using Hybrid Meta-heuristic in Heterogeneous Cloud Environment, International Journal of Advanced Trends in Computer Science and Engineering.
Vol 8 Issue 6

M. N. Derahman, A. Abdullah, M. F. Azmi, *2016*, Robust Reputation Based Trust Management Framework for Federated-Cloud Environments, Vol 11 Issue 21.

M. N. Derahman, M. K. Abdullah, K. Dimyati, K. A. Noordin, A. Malekmohammadi, *2013*, Symbol coding customization for BER reduction in Duty-cycle Division Multiplexing Systems, Latest Trends on Communications.

Liw J Seng, Mohd N Derahman, Azizol Abdullah, *2011*, Loss Discrimination Algorithm for Wired/Wireless Networks, Journal of Computer Science.
Vol 7. Issue 12

A. Abdullah, N. Ramly, A. Muhammed and M.N. Derahman, *2009*, Performance Comparison Study on Routing Protocols for Mobile Grid Environment, International Journal of Computer Science and Network Security.
Vol. 8 No. 2

Azizol Abdullah, Norlida Ramly, Abdullah Muhammed, Mohd Noor Derahman, *2008*, Performance comparison study of routing protocols for mobile grid environment, IJCSNS International Journal of Computer science and Network security.
Vol 8 Issue 2

M. N. Derahman, W. Salman, M.K. Abdullah and M. Othman, *2007*, Performance and Cost Comparisons fo A-PON and S-PON FTTH Systems, Journal of ICT, Vol. 6.
pp 51-58

In Conference Proceedings

Mohd Noor Derahman, Kaharudin Dimyati, Amin Malek Mohammadi, Mohamad Khazani Abdullah, *2010*, Improvement of decision making protocol for Duty Cycle Division Multiplexing (DCDM) system, 2010 Second International Conference on Future Networks.
IEEE 155-158

M. N. Derahman, M. Othman and A. Ghani, *2004*, Open Source Software to facilitate in ICT Education: A Case Study of FSKTM , Majlis Dekan ICT.
20-21 Mei 2004

Ibrahim Aref, Abd Rahman Ramli, Mohamed Derahman, Syed Al-Haddad, *2003*, Audio-on-Demand System using RTP Protocol Based on JMF API, WSEAS,Transaction on Communication .
issue 3, vol. 2

Ibrahim Asaad Aref, Abd Rahman Ramli, Mohamed Noor Derahman, Syed AbdulRahman Al-Haddad, *2003*, A Study and Implementation of Java Media Framework Player, MSTC.

M.N. Derahman, M.K. Abdullah, B.M. Ali, *Optimization of A-PON FTTH Architecture Using Numerical Simulation*, 2003, Brunei International Conference on Engineering and Technology.
Gadong Brunei, pp. 335- 345.

M. N. Derahman, S. Khatun and N. K. Noordin, *MAC Protocol for Token-Ring Optical Network*, 2001, Proceedings of IEEE 5th Malaysian International Conference on Communications MICC2001.
21st-24th Oct 2001, KL pp. 114 - 117

Said, M. N., Derahman, M. N. , *2020*, Virtual Kiosk: Taman Herba, nternational Conference on Computer Science and Its Application in Agriculture (ICOSICA).

Rahiman, A. R., Islam, M. A., Derahman, M. N, *2019*, Resourceful Residual Energy Consumption in TDMA Scheduling for IoT-based Wireless Sensor Network, Advances in Science, Technology and Engineering Systems Journal (ASTESJ).
Volume 4, Issue 3, Page No 31-37, 2019

Supervision

Master

Rafi Faraj Shamoon, *2022*, Improved Approximate Message Passing Algorithm To Estimate Beamspace Channel in Millimeter-wave Massive MIMO Systems.

Haijal Amer Ayyash, *2020*, Enhancement of Glow Worm Swarm Optimization for Load Balancing in Edge Computing.

Omotayo Patrick Oke, *2019*, Modified Workflow Scheduling Using Hybrid PSO-GA Algorithm in Cloud Computing.

Ahmad Shakir Bin Roslan, *2018*, Performance evaluation of hybrid algorithm with modified time quantum for task scheduling in cloud computing environment.

Faten Ameen Saif, *2018*, Scientific Workflow Scheduling using modified cloud workflow scheduling Algorithm in Cloud Computing.

Rozin Badeel Abdal, *2018*, Performance Comparison of Min-Min Scheduling Algorithm for Scientific Workflows in Cloud Eng.

Mohd Khusyairi Nakhouda bin Mohd Khalil, *2018*, Load Balancing using Hybrid GA-PSO Algorithm in Multiple Cloud Data Centers.

Hasmira Binti Musa, *2018*, Trust Evaluation Model for Cloud Computing Environment.

Taha Saad, *2017*, Performance Evaluation of Collaborative Blackhole Attack for AODV in Vanet.

Ahmed Shakir Al-HitiRohaya Latip, Rohaya Latip, Mohd Noor Der-ahman, *2017*, Modeling and Analysis of Multicast Protocols Over IPV6, Journal of Engineering and Applied Sciences 12(3):542-547.

Abdullah Esmail Mohammed Altareb, *2013*, Performance Analysis of MPLS Protocol Over Conventional Network.

Ibrahim Aref, *2004*, Audio Streaming System Using Real-Time Transport Protocol Based on Java Media Framework. Masters thesis, Universiti Putra Malaysia.

Bushra Abdul Momen Haza'a, *The Effect of Using Longer Key Size on the Quality of Encryption for DES and 3DES Algorithm.*

Mohd Fared Abdul Khir, *An Analysis of MPLS Traffic Engineering.*

Masnida, *2012*, An analysis of Hierarchical Job Scheduling in Grid Computing.

Bavani Ramayah , *Anaysis on External Scheduling in Grid Computing Environment.*

Mazlinah Brahim, *Packet Delivering Technique in LAN.*

Mohd Nizar Mokhtar, *Deadlock Prevention Using Lossless Back-Preassured Packet Network.*

Mohamad Said El-Bashir, *Implementation of Data Encoding Techniques.*

Syarulakma Bin Abd Azis, MASTER (DENGAN TESIS), *2014*, Internal Member Bandwidth Improvement by Optimizing Layer 2 System Parameters in VDSL2 Digital Subscriber Line Acces Multiplexer (DSLAM) for Cable Impairments in Malaysia Copper Access Network Scenario.

Undergraduate

Anis Shahira Binti Azry, *2022*, Intelligent Irrigation System in Mobile Application.

Mohammad Nazmi Bin Mohd Nordin, *2022*, Paddy Diseases and Pests Identification using Deep Learning.

Ahmad Auzaie Bin Hilmi, *2022*, A Blockchain-Based Honey Authenticity Traceability System.

Hanis Suraya Binti Hassan, *2021*, Arduiono-Based Detection for Bradykinesia and Tremor in Parkinson Disease.

Ran LinSheng, *2021*, Implementation of Traffic Forwarding Based on Shortest Path in Software Defined Network.

Nursyahira Binti Mohd Razali, *2019*, Educration Formative Evaluation System.

Nurfarah Nabilah Binti Fuat, *2019*, Automated Lobsters Pond Management System.

Jalaluddin Abu Zarin, *2018*, Arduino-based System Monitoring for Fish Pond.

Mohd Farid Azman, *2018*, Arduino-based Hydroponic Farm Monitoring System.

Norrazedah binti Asri, *2018*, Performance Evaluation of Artificial Bee Colony Algorithm Scheduling in Cloud Computing.

Lee Jun Kit, *2018*, Interaction Classroom-Based Assessment System(iCAS).

Mohamad Azeem Bin Abdul Kalam, *2018*, Implementing and Analysing Different Streaming Protocols on Video Transmission Over Network.

Muhammad hasif Aiman Bin Daud, *2018*, Arduino-Based Drip Irrigation Farm Monitoring System.

Noris Husna Binti Che Mahadi, *2017*, Proud Shopper System.

Fatin Fatiha Binti Harun, *2017*, Health Management System for SMEs Company .

Kevin Yap, *2016*, Implementation and Evaluation of Snort Network Intrusion Detection System in Local Area Network.

Mohammad Amirul Bin Aziz, *2016*, Real-Time Parcel Delivery Tracking System.

Nur Ahtikar Binti Mohd Yusof, *2016*, Pre-Natal Development Monitoring System.

Che Ku Nor Shakilla Binti Che Ku Adnan, *2016*, Toddler's Monitoring Development System.

Ahmad Radhi Zikri B Aziz, *2016*, Analysis of Attack on Secure Shell (SSH) Protocol Using Kippo-SH.

Anna Raihan Binti Mohd Ali, *2016*, Infant Development Monitoring System.

Zulkarnain bin Zainal, *2015*, OpenFlow SDN Switching Management using Raspberry Pi Computing Devices.

Raeezah Binti Sayed Farook.

Athimahendran a/l Panneerselvam, *2015*, Secured VPN Cloud Using Raspbeerry Pi.

Muhammad Atha bin Suhaili , *2015*, Implementation of Network and Host Intrusion Detection System in Cloud Environment.

Lai Sher Jeen, *2014*, Performance Evaluation for Cloud Computing by Using Aneka Platform.

Anis Fahimah Binti Abd Fatah, *2014*, Online Bookstore Management System.

Mazni Ashikin Binti Mo'min, *2014*, DoctorMe Clinic Appointment Mobile Application.

Soo Jie Cong, *2013*, Embedded Mobile Security Surveillance System with Face Detection for Indoor Area.

Chong Ken Keong, *2013*, Controlling Embedded System Through Wireless System.

Mohamad Najib Basery, *2012*, Home Automation System Based on NRF24L01 Wireless Approach.

Lee Ling Ling, *110818*, Random Early Detection Active Queue Management(RED AQM).

Award

Anugerah Pengajaran Pensyarah Cemerlang, *2019*.

Anugerah Pengajaran Pensyarah Cemerlang, *2020*.

Anugerah Penerbitan Cemerlang, *2021*.

BRONZE MEDAL, *YADIM*, 2021.

Best Paper Award, *Anugerah Bukan Penyelidikan Antarabangsa IJCC2020*, 2020.

Anugerah Penerbitan Cemerlang, *2018.*

Anugerah Pengajaran Gemilang, *2018.*

Anugerah Khidmat Komuniti dan Masyarakat Cemerlang, *2017.*

Sijil Khidmat Cemerlang, *2003.*

Grant

Adaptive Dynamic Data Replication and Placement Algorithms for Optimal Data Access and Storage Service Cost in Heterogenous Multi-Cloud Environment, *Member*, On going.

A secure resource provisioning mechanism for high reliability using trust and recovery methods in intercloud environment, *Principle*, Complete - KPI Achieved RMC 17/07/2019.

Training Attended

RpIot.

Penetration Testing and Ethical Hacking, *2-4 Nov 2015*, Makmal Forensik FSKTM, UPM.

Kursus Induksi modul Umum dan Khusus Kumpulan Pengurusan dan Profesional 3/2004, *Bilik Seminar Fakulti Kejuruteraan UPM*, 23 Mac - 10 April 2004.

Industrial Training, *Pusat Komputer, Universiti Pertanian Malaysia*, 6th Nov-9 Dis 1995.

Darwin Training, *Sun Microsystem(Malaysia)*, Hyatt Saujana Hotel Subang.

Fundamental Training, *Sun Microsystem Pte Ltd*, 1st Magazine Street, Singapore.

Senggaraan dan Membaiki Komputer, *Institut Perdagangan MARA & Akademi Infotech MARA*, Bangunan MARA, Kuala Lumpur, 24 Mei - 17 Jue 1995.

National Grid Workshop, *University Sains Malaysia*, 29 June – 30 June 2005.

Basic IT for IT Engineers (MYFE), *The Association for Overseas Technical Scholarship (AOTS) Japan and Multimedia Technology Enhancement Operation (METEOR) Sdn. Bhd.* , 31 January – 18 March 2005.

2524 Developing XML Web Services Using Microsoft ASP.Net, *Petaling Jaya*, 21-23 Jun 2004.

.NET curriculum Workshop 2004 , *Marriot Putrajaya* , 28-29 Jun 2004.

MCMC Next generation Networks Workshop 2003 for IDS, *Putra World Trade Center*, September, 2003.

Fluke Network Training, *FSKTM, UPM.*, January, 2003.

Opnet, *4 Days Opnet Training Course*, Meridian System.

Pengaturcaraan Java (SL-275), *Sun Microsystem Sdn Bhd*, 25 April-1 March 2002.

Sun Hardware Essential II, *Sun Microsytems Pte Ltd*, 1st Magazine Street Singapore, 8th-10th Feb 1999.
Cert Num s605284

Network Security with Firewall-I (SA 388), *Sun Microsyterns Pte Ltd*, 1st Magazine Street Singapore, 2th - 6th March 1998.

Fundamentals Training, *Sun Microsytems Pte Ltd*, 1st Magazine Street Singapore.

Technical Experience

Installing , commissioning Cisco Router Solution at Pusat Pungutan Zakat.

Maintaining and servicing Sun Sparc Center 2000E for Universiti Kebangsaan Malaysia.

Maintaining and servicing 100 Sun Workstation for Institut Teknologi Mara.

Maintaining and servicing Sun Ultra Enterprise 3000, Ultra and SS20 system at MIMOS Berhad.

Membership

Research Associate, *for Pervasive Computing Laboratory, Institute of Multimedia and Software, UPM*, 15th April 2005 – 15th April 2007.

Member, *of Network, Parallel and Distributed Research Group, Faculty of Computer Science and Information Technology, UPM since 2001 until now.*

IEEE Student Member, *on 2000 until 2002.*