

# CURRICULUM VITAE



**Mohamed Othman, PhD**  
**2013**

Department of Communication Technology and Network  
Faculty of Computer Science and Information Technology  
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# CURRICULUM VITAE

1. **NAME:** MOHAMED BIN OTHMAN

2. **WORKING ADDRESS**

Prof Dr Mohamed Othman  
Department of Communication Technology and Network  
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University Putra Malaysia  
43400 UPM Serdang Selangor D.E., MALAYSIA

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Email: mothman@upm.edu.my or mothmanupm@gmail.com

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3. **FIELDS OF SPECIALIZATION**

Ultra-high speed networking, Wireless network, Parallel and distributed algorithms; Routing, scheduling and load balancing in grid/cloud computing, scientific computing

4. **EDUCATIONS AND ACADEMIC QUALIFICATION**

PhD	University Kebangsaan Malaysia, 1999, ( <b>Best PhD Thesis</b> awarded by Sime Darby Malaysia and Malaysian Mathematical Society)
MSc	University Teknologi Malaysia, 1988

5. **WORKING EXPERIENCES**

No.	Position	Department/Faculty/Other Institution	Year	Duration
4	Head of Department	Department of Communication Technology and Networks, FSKTM, UPM	1999	7 years
5	Associate Professor	Department of Communication Technology and Networks, FSKTM, UPM	2001	Jun 2009
6	Deputy Director	InfoComm Development Center (iDEC), UPM	2008	Sept 2009
7	Professor	Faculty of Computer Science and Information Technology, UPM	July 2009	Now
8	Deputy Dean	Faculty of Computer Science and Information Technology, UPM	Oct 2009	Dec 2012
9	Professor	Faculty of Computer Science and Information Technology, UPM	Jan 2012	Now

6. **ACADEMIC AWARDS AND RECOGNITION**

No.	Award/Recognition	Organisation Awarded	Date
1	"An Excellent Researcher 2007" Award	Institute of Mathematical Research (INSPEM), UPM	2008

2	“An Excellent Researcher 2007 (great contribution in publication)” Award	Institute of Mathematical Research (INSPEM), UPM	2008
3	“An Excellent Researcher 2007 (great contribution in publication)” Award	UPM	2008
4	“An Excellent Researcher 2008 (great contribution in publication)” Award	Institute of Mathematical Research (INSPEM), UPM	2009
5	“An Excellent Lecturer 2008” Award	Faculty of Computer Science and Information Technology, UPM	2009
6	“An Excellent Lecturer 2009” Award	Faculty of Computer Science and Information Technology, UPM	2010
7	“An Excellent Lecturer 2010” Award	Faculty of Computer Science and Information Technology, UPM	2011

## 7. ACADEMIC VISIT/EXPERIANCES

**Earth Simulator Center, Yokohama, Japan** – Japanese supercomputer center - In 2001, ranking number 1 in supercomputer in the world ([www.top500.org](http://www.top500.org))

**High Performance Computing Center**, Kyoto University, Kyoto, Japan (2001)

**High Performance Computing Center**, Vietnamese Academic of Science, Hanoi, Vietnam (visit in 2006)

**High Performance Computing Services Center**, Louisiana State University, Baton Rouge, Louisiana, USA (visit in 2009)

**Barcelona Supercomputing Center**, Bercelona, Spanish (visit in 2013)

**Faculty of Informtaion Communication Technology**, South Kazakhstan State University, Shymkent, Kazakhstan (25<sup>th</sup> Oct – 5<sup>th</sup> Nov, 2013; as visiting professor)

## 8. TEACHING EXPERIENCES

### Undergraduate (in campus)

Teaching PhD in Computer Sceince, Master in Computer Sceince and Bachelor of Computer Science in the fileds of computer network, parallel and distributed computing

## 9. SUPERVISIONS

### Postdoc candidate (Advisor/supervisor)

Dr Abdul Jalil M. Khalaf, (2011), *Chromaticity of Certain Graphs applied to High Degree Chordal Ring Network* (Graph theory in computer network)

Dr Sherzod Turaev, (2012), *Desriptional Complexity of Tree Controlled Grammers* (Parallel Language Grammar)

Dr Anwar Saif, (2012), *Frame Aggregation in WLAN* (Wireless Network)

## **PhD (main supervisor)**

- Faraz, (2013), *Internet Gateway Placement Algorithm on Wireless Mesh Network*
- Mohammad Alrashah, (2012), *Design and Implementation of Ultra High Speed TCP on Wired-Wireless Network*
- Nasim Fedrosian, (2012), *TCP-based QoS for uplink and donlink in LTE-Advanced Network*
- Nur Arzilawati Md Yunus, (2012), *Reliability in Optical Multistage Interconnection Network*
- Mehnaz, (2012), *Hierarichal Based Optical Multistage Interconnection Network*
- Gairat Mavlankulov, (2011), *Parallel Language and Their Descriptive Complexity of Tree Controlled Grammers*
- Samsollah, (2011), *Real-Time Task and Job Scheduling based on Divisible Load Theory on Cloud Computing*
- Amen Al-Kharasani, (2010), *Scheduling in WiMAX based on Divisible Load Theory*
- Mohamed Moqry, (2010), *VoIP Calls in 802.11 Wireless Networks*
- Ammar Mohammed Al-Jubari, (2009), *An Adaptive Delayed Acknowledgment Strategy to Improve TCP Performance in Multi-hop Wireless Networks (writing thesis)*
- Hassen Mogabel, (2008), *Channel Reservation/Assignment for common traffic in WMN*
- Amin Shokripour, (2008), *Job Sceduling in Mobile Grid Applications based on DLT (completion of viva with major correction)*
- Hasan Barjani, (2007), *Free-riding and maximizing Scope of peer-to-peer Search (graduated)*
- Qurasi Barakat, (2007), *Parallel TCP Network Protocol (waiting for viva)*
- Anwar Shamiri, (2007), *Frame Aggregation Scheme to Support Small and Time Constraints Network Network (graduated)*
- Noraini Md Nusi, (2007), *Finite Difference Time Domain (FDTD) for Solving Electromagnetic Problem and Their Parallel Implementation*
- Raja Noor Farah Azura Raja Maamor Shah, (2007), *High Degree Chordal Ring Network (graduated)*
- Kweh Yeh Lun, (2006), *Selection Algorithm in Peer 2 Peer Computing Environment (graduated)*
- Zulkrnain Md Ali, (2010), *Design the Parallel SSH Protocol with LUC Function Family (graduated)*
- Azizol Abdullah, (2010), *Data Grid Management and Replication (graduated)*
- Munir Abdullah Abduh Kaid, (2009), *Load balancing and Scheduling in Grid Computing Environment (graduated)*
- Ali Mohammed Al-Sharafi, (2008), *AMTree Mobile Routing Protocol (graduated)*
- Mohammad Khatim Hasan, (2008), *The FDTD Method on Free Space Wave Propagation Applied to Antenna (graduated)*
- Makarem Mohammed Abdulqader (2007), *Traffic Engineering Methods for Traditional Shortest Path Routing (graduated)*
- Alshaikh M.A., (2006), *Scheduling and Reshaping of Network Traffics in Differentiated Services (graduated)*
- Atheer A. Matroud, (2005), *Boolean Routing on High Degree Chordal Rings Network (graduated)*
- Samei, A.M, (2004), *Zero Algorithms for Avoiding Crosstalk in Optical Multistage Interconnection Network (graduated)*
- Shamala S., (2003), *Scheduling Algorithm for Real-Time Multimedia App. (graduated)*

## **MSc (A) (main supervisor)**

- Adamu Mohammad, (2013), *Analytical Frame Aggregation on Wireless Mesh Network*
- Nadia Shafikah, (2013), *Solving Telegraph Equation with Hierarchical Matrix*
- Ranesh Kumar Naha, (2012), *Design A New SLA aware Cloud Brokering Architecture for Intercloud environment*
- Nasrin Akhter, (2012), *A Heuristics Energy and Performance Efficient Resource Allocation for Cloud Based Data Centers*

- Nur Arzilawati Md Yunus, (2012), *Permutation and Self-Exchanges Approach in Optical Multistage Interconnection Network (graduated)*
- Fariza, (2010), *Non-blocking Approach in Wavelength based Optical Multistage Interconnection Network*
- Mehnaz, (2010), *Optimization Technique for Solving Self Routing on Optical Multistage Interconnection Network (graduated)*
- Mohd Kamalrulzaman Md Akhir, (2010) *Solving 2D Helmholtz Problem Using Iterative Algorithm on Distributed Parallel Computer Architecture (graduated)*
- Md Anwarul kaim Patwary (2009) *Parallelization issues and challenges of H.264/AVC video encoding standard in SoC multiprocessor platform and GPU (completed)*
- Ngoh Jim Yee (2008) *Parallel Systolic Array applied to Network of Matrices (writing)*
- Lee Soon (2008) *Network Security: Packet IP spoofing (graduated)*
- Tareq Rasul (2008) *Fairness in Wireless Networks (graduated)*
- Shukhrat Rahkimov, (2011) *Parallel and Sequential AOR Algorithm for Solving Poisson Problem on Distributed Computer Architecture (graduated)*
- Tengku Dian Shaidah bt Tengku Mohd Aznur, (2007) *Parallel and Sequential Routing in Multilayer Omega Network Switches (graduated)*
- Siti Musliza Mustafa (2007) *Load Balancing in OSPF and MPLS Routing Protocols (graduated)*
- Muhammad Farhan Sjaugi (2006) *Location-Aided Dynamic Backup Route Routing Protocol on Ad Hoc Network (graduated)*
- Alireza Izaddoost, (2007) *IP-Traceback: Security at the edge Router (graduated)*
- Seyed Mojtaba Syedzadegan Halaj (2007) *Fairness in Wireless Networks (graduated)*
- Farzaned Abed, (2007) *Fast Bitwise Routing in Optical Multistage Interconnection Network Switches (graduated)*
- Munir Abdullah Abduh Kaid, (2005), *Parallel and Sequential Optical Multistage Interconnection Network (graduated)*
- Wee Kok Wee, (2004), *Dynamic Bandwidth Allocation Algorithm on ATM Switches (graduated)*
- Yap Soon Teck, (2004), *Confidence based Dual Reinforcement Q Algorithm (graduated)*
- Esam Elmhdi Abulkhira, (2003) *Parallel and Sequential LUC Cryptography Algorithms (Graduated with Excellent Finding)*
- Atheer A. Matroud, (2002), *Boolean Routing on Chordal Rings Network (graduated)*

## 10. PUBLICATIONS

### Published in Journal

No.	Name of Writer (s)	Year Published	Title	Name of Journal	Volume Number	Page Number
1.	A.O. Addin S.M. Sapuan E. Mahdi & <b>M. Othman.</b>	2007	A Naïve Bayes Classifier and f-Folds Feature Selection for Damage Detection in Engineering Materials	International Journal of Mechanical and Materials Engineering	21	55-62
2.	A.O. Addin S.M. Sapuan E. Mahdi & <b>M. Othman.</b>	2007	A Naïve Bayes Classifier for Damage Detection in Engineering	Materials Material and Design	288	2379-2386
3.	Abudhahir Buhari and <b>Mohamed Othman</b>	2007	Efficient Query Propagation by Adaptive Bordercast Operation in Dense Ad Hoc Network	International Journal of Computer Science and Network Security	78	101-108.
4.	Bashi A. <b>M. Othman</b> M.H. Selamat & R. Johari	2007	Large Chordal Rings for Given Diameter and Uniqueness Property of Minima Ars	Combinatoria	82	243-252
5.	Elwathiq Elhag and <b>Mohamed Othman</b>	2007	Adaptive Contention Window Scheme for WLANs	The International Arab Journal of Information Technology	44	313-321.
6.	J. Sulaiman <b>M. Othman</b> and	2007	Red-Black EDGSOR Iterative	Part III LNCS	4707	298–308.

	M.K. Hasan		Method Using Triangle Element Approximation for 2D Poisson Equations			
7.	M. Abdullah <b>M. Othman</b> H. Ibrahim and S. Subramaniam	2007	An Integrated Approach for Scheduling Divisible Load on Large Scale Data Grids	Part I LNCS	4705	748–757.
8.	M. Sanabani S. Shamala <b>M. Othman</b> & J. Desa	2007	Resource Management at Connection Level for Multimedia in Wireless/Mobile Cellular Networks	Journal of Mobile Multimedia	32	168-178
9.	M. Sanabani S. Shamala <b>M. Othman</b> and Z. Zukarnain	2007	An Enhanced Bandwidth Reservation Scheme Based on Road Topology Information for QoS Sensitive Multimedia Wireless Cellular Networks	Part II LNCS	4706	261–274
10.	M.K. Hasan <b>M. Othman</b> Z. Abbas J. Sulaiman & Jalil M. Desa.	2007	A New Numerical Algorithm for Antenna Analysis.	Borneo Science Journal	20	71-77
11.	Makarem Bamatraf <b>Mohamed Othman</b>	2007	Improved Balancing Heuristics for Optimizing Shortest Path Routing	Computer Communication	30	1513–1526
12.	Mohammad Khatim Hasan <b>Mohamed Othman</b> Zulkifly Abbas Jumat Sulaiman and Fatimah Ahmad	2007	Parallel Solution of High Speed Low Order FDTD on 2D Free Space Wave Propagation	Part II LNCS	4706.	13–24
13.	Mohammed A. and <b>M. Othman</b>	2007	Comparative Analysis of Some Pivoting Schemes for Quicksort Algorithm	Information Technology Journal	63	242-247
14.	<b>Othman M.</b> M. Abdullah H. Ibrahim S. Subramaniam	2007	Adaptive Divisible Load Model for Scheduling Data-Intensive Grid Applications	Part I LNCS	4487	446–453.
15.	Rohaya Latip Hamidah Ibrahim <b>Mohamed Othman</b> Md Nasir Sulaiman and Azizol Abdullah	2007	Diagonal Data Replication in Grid Environment	Part III LNCS	4707	763–773.
16.	Sulaiman J. <b>Othman M.</b> M.K. Hasan	2007	Red-Black Half-Sweep Iterative Method Using Triangle Finite Element Approximation for 2D Poisson Equations	Part I LNCS	4487	326–333.
17.	Wee Kuok Wee <b>Mohamed Othman</b> Subramaniam Shamala and Ahmad Ariffin	2007	Enhanced Dynamic Bandwidth Allocation Proportional to Queue Length with Threshold Value for VBR Traffic The	International Arab Journal of Information Technology	42	117-124.
18.	Zailan Siri Fudziah Ismail <b>Mohamed Othman</b> & Mohamed Suleiman	2007	Parallel Execution of Block Runge-Kutta Method	European Journal of Scientific Research	vol 18 no 2	255-266
19.	Zarariah Abdul Majid Mohamed Suleiman <b>Mohamed Othman</b> & Fudziah Ismail	2007	Parallel Four Points Block Method for Solving Mathematical Problem in Engineering	MathDigest	vol 1 no 1	48-52
20.	Al Ahdal, S. Subramaniam, <b>M. Othman</b> , Z. Zukarnain	2008	A Source Tree Reliable Multicast Protocol for Ad-Hoc Networks (STRM)	International Arab Journal of Information Technology	in press	
21.	Al-Shabi, M.A., <b>M. Othman</b> and R. Johari	2008	A New Algorithm for Routing and Scheduling in Optical Omega Network	International Journal of the Computer, the Internet and Management	16(1)	26-31
22.	Al-Sharafi, <b>M. Othman</b> , S. Subramaniam, and Md Nasir Sulaiman	2008	Incorporating Multiple Source in AMTree Protocol	Journal Computer Science	4(1)	6-9
23.	Al-Sharafi, <b>M. Othman</b> , S. Subramaniam	2008	New Algorithms to Minimize Handoff Latency in AMTree Protocol	International Arab Journal of Information Technology	9(1)	in press
24.	F. Abed and <b>M. Othman</b>	2008	Fast Method to Find	International Journal	16(1)	18-25

			Conflicts in Optical Multistage Interconnection Networks	of the Computer, the Internet and Management		
25.	Idawaty Ahmad, S. Shamala, <b>M. Othman</b> and Muhammad Fauzan Othman	2008	A Preemptive Utility Accrual Scheduling Algorithm for Adaptive Real Time System	International Journal of the Computer Science and Network Security	8(5)	57-61
26.	M. Sanabani, S. Shamala, <b>M. Othman</b> & J. Desa	2008	Mobility Prediction Based Resource Reservation for Handoff in Multimedia Wireless Cellular Network	International Arab Journal of Information Technology	5(2)	167-174
27.	M. Sanabani, S. Shamala, <b>M. Othman</b> & Z. Zulkarnain	2008	Discrete Simulation for Wireless Cellular Networks	American Journal of Applied Science	in press	
28.	M. Sanabani, S. Shamala, <b>M. Othman</b> & Z. Zulkarnain	2008	Improve Mobility Prediction for Wireless Cellular Networks	Journal of Zhejiang University-SCIENCE A	in press	
29.	M. Sanabani, S. Shamala, <b>M. Othman</b> , Z. Zulkarnain	2008	Multi Class Bandwidth Reservation Scheme Based on Mobility Prediction for Handoff in Multimedia Wireless/Mobile Cellular Network	International Journal of Wireless Personal Communication	46(2)	143-163
30.	M.A. Elshaikh, <b>M. Othman</b> , S. Shamala, J.M. Desa	2008	A New Fair Marker Algorithm for DiffServ Networks	Computer Communications	31	3064-3070
31.	Maher A. Al- Sanabani, Subramaniam K. Shamala, <b>Mohamed Othman</b> , Zukarnain	2008	Multi Class Bandwidth Reservation Scheme Based on Mobility Prediction for Handoff in Multimedia Wireless/Mobile Cellular Network	International Journal of Wireless Personal Communication	46	143- 163
32.	<b>Mohamed Othman</b> and Kweh Yeah Lun	2008	Statistical Selection Algorithm for Peer-to-Peer System	Pertanika Journal of Science and Technology	in press	
33.	<b>Mohamed Othman</b> , Farzaneh Abed	2008	Fast Four Heuristic Routing Algorithm in Optical Multistage Interconnection Switch Networks	Journal of Information and Communication Technology	in press	
34.	Mohammad Khatim Hasan, <b>Mohamed Othman</b> , Zulkifly Abbas, Jumat Sulaiman, and Fatimah Ahmad,	2008	Parallel Implementation of Complexity Reduction Approach to Fourth Order Approximation on 2D Free Space Wave Propagation	In O. Gervasi et al. (Eds.): ICCSA 2008, Part II LNCS	5073	720–735
35.	Mohammad Reza HeidariNezhad, Zuriati Ahmad Zulkarnain, and <b>Mohamed Othman</b>	2008	HTS: A Hierarchical Method for Load Balancing in Autonomous Networks	International Journal of the Computer Science and Network Security	8(6)	74-78
36.	Muhammad Farhan Sjaugi, <b>Mohamed Othman</b> , and Mohd Fadlee A. Rasid	2008	A New Distance Based Route Maintenance Strategy for Dynamic Source Routing Protocol	Journal Computer Science	4(3)	172-180
37.	Nor Musliza Mustafa, <b>Mohamed Othman</b> , Zuriati Ahmad Zulkarnain	2008	A Link Usage for OSPF Routing	IJUM Engineering Journal	in press	
38.	<b>Othman, M.</b> , M. Abdullah, H. Ibrahim, S. Subramaniam	2008	A <sup>2</sup> DLT: Divisible Load Balancing Model for Scheduling Communication-Intensive Grid Applications	In. M. Bubak et al. (Eds). Computational Science, Part I, LNCS	5101	246-253
39.	R. Latip, H. Ibrahim, <b>M. Othman</b> , M. Sulaiman, A. Abdullah	2008	Quorum based data replication in grid environment	Rough Sets and Knowledge Technology		379-386
40.	Rohaya Latip, Hamidah Ibrahim, <b>Mohamed Othman</b> , Md Nasir Sulaiman and Azizol Abdullah	2008	Quorum Based Data Replication in Grid Environment	Lecture Note in Artificial Intelligence (LNAI)	5009	379–386
41.	Rohaya Latip, Hamidah Ibrahim, <b>Mohamed Othman</b> , Md Nasir Sulaiman, and Azizol Abdullah	2008	High Availability with Diagonal Replication in 2D Mesh (DR2M) Protocol for Grid Environment	Computer and Information System	1(2)	95-105

42.	T. Alahdal, S. Shamala, <b>M. Othman</b> and Z. Zukarnain	2008	A Simulation Engine Model Analysis for Reliable Multicast Protocol in Ad Hoc Network	International Journal of the Computer Science and Network Security	8(5)	1-10
43.	Wee Kuokkwee, <b>M. Othman</b> , S. Shamala and A.A. Ariffin	2008	ATM Switch: Impact of Heuristic Approach to Static Bandwidth Allocation	International Journal of the Computer, the Internet and Management	16(1)	32-37
44.	Yong Chu Eu, Sabira Khatun, Borhanuddin Mohd Ali, <b>Mohamed Othman</b>	2008	Multicast, Hierarchical and Fast Handover in Mobile IPv6 Wireless Network	International Journal of Computer and Application	30(3)	1-6
45.	<b>M. Othman</b> , E. M. Abulhirat, Z. M. Ali, M. R. M. Said, R. Johari	2008	A new computation algorithm for a cryptosystem based on lucas functions	Journal of Computer Science	4(12)	1056-1060
46.	Ali Al-Sharafi, <b>Mohamed Othman</b> , Shamala Subramaniam	2009	New Algorithms to Minimize Handoff Latency in AMTree Protocol	International Arab Journal of Infomation Technology	6(1)	72-76
47.	R. Latip, H. Ibrahim, <b>M. Othman</b> , M. N. Sulaiman, A. Abdullah	2008	High availability with diagonal replication in 2d mesh (dr2m) protocol for grid environment	Computer and Information Science	1 (2)	95-105
48.	Amin Shokripour, <b>Mohamed Othman</b>	2009	A Review on Divisible Load Theory Applications	MASAUM Journal Of Reviews and Surveys	1(2)	146-153
49.	Amin Shokripour, <b>Mohamed Othman</b>	2009	Categorizing DLT Researches and its Applications	European Journal of Scientific Research	37(3)	496-515
50.	Fudziah Ismail, Zailan Siri, <b>Mohamed Othman</b> , Mohamed Suleiman	2009	Parallel Execution of Diagonally Implicit Runge-Kutta Methods for Solving IVPs	European Journal of Scientific Research	26(4)	480-489
51.	H. N. Jasem, Z. A. Zukarnain, <b>M. Othman</b>	2009	hamala Subramaniam, Experimental evaluation of bottleneck link utilization with newadditive increase multiplicative decrease congestion avoidance and control algorithm	Journal of Computer Science	5 (12)	1055-1065
52.	H.A. Fua'ad, S. Shamala, <b>M. Othman</b> and Z. Zuriati	2009	A Discrete Event Modeling and Simulation of Wave Division Multiplexing Unidirectional Slotted Ring Metropolitan Area Network	Journal of Computer Science	5(6)	456-465
53.	Lee Soon, <b>Mohamed Othman</b> , Nur Izura Udzir	2009	IP Spoofing Defense: Current Issues, Trend and Challenges	MASAUM Journal Of Reviews and Surveys	1(1)	110-116
54.	M. Abdullah, <b>M. Othman</b> , H. Ibrahim, S. Subramaniam	2009	Load allocation model for scheduling divisible data grid applications	Journal of Computer Science	5 (10)	760-770
55.	M. AlSanabani, S. Subramaniam, <b>M. Othman</b> , Z. Zukarnain	2009	Discrete simulation framework for wireless cellular networks	Journal of Computer Science	4 (12)	982-990
56.	M. HeidariNezhad, Z. Ahmad Zukarnain, N. Udzir, <b>M. Othman</b>	2009	Mobility support across hybrid ipbased wireless environment: review of concepts, solutions, and related issues	Annals of Telecommunications	64 (9)	677-691
57.	Hayder Natiq Jasem, Zuriati Ahmad Zukarnain, <b>Mohamed Othman</b> and Shamala Subramaniam	2009	Experimental Evaluation of Bottleneck Link Utilization with New-Additive Increase Multiplicative Decrease Congestion Avoidance and Control Algorithm	Journal of Computer Science	5 (12)	1055-1059
58.	Mehrdad Jalalian Hosseini1, Reyhaneh Bazargani1, Latiffah Latiff, Parichehr Hanachi, Syed Tajuddin Syed Hassan, <b>Mohamed Othman</b>	2009	A problem-based approach to teaching research methodology to medical graduates in Iran	Australasian Medical Journal	1(7)	16-18
59.	Mehrdad Jalalian Hosseini1, Reyhaneh Bazargani1, Latiffah Latiff, Parichehr Hanachi, Syed Tajuddin Syed Hassan, <b>Mohamed Othman</b>	2009	Medical researchers in non English countries and concerns about unintentional plagiarism	Journal of Medical Ethics and History of Medicine	2(2)	1-2
60.	Mina Sedaghat, <b>Mohamed</b>	2009	Agent Based Resource	Journal of Theoretical	5(5)	634-639



	<b>Othman</b>		Brokering And Allocation In Wireless Grids: Revisited	and Applied Information Technology		
61.	<b>Mohamed Othman</b> , Mostafa Nikpour Kermanian	2009	Reliable and Security-Based Myren Network Traffic Management using Open Source Tools	Journal of Information & Communication Technology	3(1)	1-10
62.	Mojtaba Seyedzadegan, <b>Mohamed Othman</b>	2009	Weighted Window for Fair Bandwidth Allocation in WLANs	European Journal of Scientific Research	29 (4)	481-490
63.	Monir Abdullah, <b>Mohamed Othman</b> , Hamidah Ibrahim and Shamala Subramaniam	2009	Closed form Solution for Scheduling Arbitrarily Divisible Load Model in Data Grid Applications: Multiple Sources	American Journal of Applied Sciences	6(4)	626-630
64.	Noraini Md Nusi, <b>Mohamed Othman</b>	2009	Half- and Quarter-Sweeps Implementation of Finite-Difference Time-Domain Method	Malaysian Journal of Mathematical Sciences	3 (1)	45-53
65.	Roziha Darwis, Norma Alias, Nazeeruddin Yaacob, <b>Mohamed Othman</b> , Nurashikin Abdullah, Teh Yuan Ying	2009	Temperature Behavior Visualization on Rubber Material Involving Phase Change Simulation	Journal of Fundamental Sciences	5	55-62
66.	S. Karaa, <b>M. Othman</b>	2009	Twolevel compact implicit schemes for threedimensional parabolic problems	Computer Mathematic with Applications	58 (2)	257-263
67.	Shafinaz Buruhanudeen, <b>Mohamed Othman</b> , Borhanuddin Mohd Ali, Mazliza Othman	2009	Cbe-Abr: A Cluster Based Enhanced Routing Protocol For Ad Hoc Mobile Networks	International Journal of Computer Networks & Communications	1 (3)	47-55
68.	Shukhrat I. Rakhimov, <b>Mohamed Othman</b>	2009	An Accelerated Over-Relaxation Quarter-Sweep Point Iterative Method for Two-Dimensional Poisson Equation	Sains Malaysiana	38(5)	729-733
69.	U. K. S. Din, F. Ismail, M. Suleiman, Z. A. Majid, <b>M. Othman</b>	2009	The parallel three-processor fifth-order diagonally implicit Runge-Kutta methods for solving ordinary differential equations	Advances in Numerical Methods	11	55-66
70.	Monir Abdullah, <b>Mohamed Othman</b> , Hamidah Ibrahim, and Shamala Subramaniam	2009	Simulated Annealing Algorithm for Scheduling Divisible Load in Large Scale Data Grids	IIUM Engineering Journal (Non-citation)	10(1)	59-68
71.	T.D. Shahida, <b>M. Othman</b> , M.K. Abdullah	2010	Fast Zerox Algorithm for Routing in Optical Multistage Interconnection Networks	IIUM Engineering Journal (Non-citation)	11(1)	28-39
72.	A. Mohamedou, <b>M. Othman</b>	2010	Analytical evaluation of unfairness problem in wireless lans	Journal of Telecommunications (DOAJ)	1 (1)	105- 112
73.	T. Rasul, <b>M. Othman</b>	2010	Progress on TCP Fairness Achievement in IEEE 802.11 Infrastructure WLAN	Journal of Telecommunications (DOAJ)	3(2)	32-38
74.	D. R. Pour, M. Rushdan, M. Said, K. Ariffin, M. Atan, <b>M. Othman</b>	2010	The new variablelength key symmetric cryptosystem	Journal of Mathematics and Statistics (Scopus)	5 (1)	24-31
75.	Doha Elsharief, Hamidah Ibrahim, Ali Mamat, <b>Mohamed Othman</b>	2010	A Framework for an Application based Mobile Cache Consistency Method	Journal of Theoretical and Applied Information Technology (EBSCO)	11 (2)	88-96
76.	Norazak Senu, Mohamed Suleiman, Fudziah Ismail, and <b>Mohamed Othman</b>	2010	A Zero-Dissipative Runge-Kutta-Nystro'm Method with Minimal Phase-Lag	Mathematical Problems in Engineering (IF=0.552)	doi:10.1155/2010/591341	1-15
77.	Monir Abdullah, <b>Mohamed Othman</b> , Hamidah Ibrahim,	2010	Optimal workload allocation model for scheduling divisible	Future Generation Computer Systems	26	971-978

	Shamala Subramaniam		data grid applications	(IF=2.22)		
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24.	Shafinaz Buruhanudeen <b>Mohamed Othman</b> Mazliza Othman and Borhanuddin Mohd Ali	2007	Mobility Models Broadcasting Methods and Factors Contributing Towards the Efficiency of the MANET Routing Protocols: Overview	14th IEEE International Conference On Telecommunications (ICT) and 8th IEEE Malaysia International Conference on Communications (MICC) 14- 17 May 2007 Penang Malaysia	---
25.	Shafinaz Buruhanudeen <b>Mohamed Othman</b> Mazliza Othman and Borhanuddin Mohd Ali	2007	Overview of the MANET Associatively Based Routing (ABR) Protocol	Proceedings of the 3 <sup>rd</sup> International Conference on Research and Education in Mathematics (ICREM3); 10- 12 April 2007 Kuala Lumpur	pp: 39-44
26.	Shafinaz Buruhanudeen <b>Mohamed Othman</b> Mazliza Othman and Borhanuddin Mohd Ali	2007	Overview of the MANET Associatively Based Routing (ABR) Protocol	The 3 <sup>rd</sup> International Conference on Telecommunication (ICTS 2007) Surabaya Indonesia	---

				September 11 2007	
27.	Siti Musliza Mustafa <b>Mohamed Othman</b>	2007	A Review of Routing Optimization Using OSPF	14th IEEE International Conference On Telecommunications (ICT) and 8th IEEE Malaysia International Conference on Communications (MICC) 14-17 May 2007 Penang Malaysia	---
28.	Tariq Alahdal Shamala Subramaniam <b>Mohamad Othman</b> and Zuriati Zukarnain	2007	An Adaptive Reliable Multicast Protocol in Ad Hoc Networks	Proceedings of the 2007 IEEE International Conference on Telecommunications and Malaysia International Conference on Communications Penang Malaysia. 14-17 May 2007	---
29.	Tengku Dian Shahidah <b>Mohamed Othman</b> Mohamad Khazani Abdullah	2007	Routing Algorithms in Optical Multistage Interconnection Networks: Revisited	World Engineering Congress (WEC 2007) Penang Malaysia 5 – 9 August 2007.	CD Form
30.	Ummu Khair Salma Din Fudziah Ismail Mohamed Suleiman <b>Mohamed Othman</b> and Zanariah Abdul Majid	2007	On the Performance of Parallel Fifth Order Diagonally Implicit Runge-Kutta Method with Two Processors	Penang Malaysia 5–6 December 2007	(proceeding in press)
31.	Ummul Khair Salma Din Fudziah Ismail Mohamed Suleiman Zanariah Abdul Majid <b>Mohamed Othman</b>	2007	The Parallel Three-Processor Fifth Order Diagonally implicit Runge- Kutta Methods for Solving Ordinary Differential Equations	12 <sup>th</sup> WSEAS int. conf. on APPLIED MATHEMATICS Cairo Egypt.	---
32.	Yap Lee Ken Fudziah Ismail Mohamed Sulaiman Zanariah Abdual Majid <b>Mohamed Othman</b>	2007	Explicit-2points and 3-points Block Methods for Solving Special Second Order Ordinary Differential Equations Directly	Proceedings of the 3 <sup>rd</sup> International Conference on Research and Education in Mathematics (ICREM3); 10-12 April 2007 Kuala Lumpur	266—271
33.	Z.M. Ali <b>M. Othman</b> M. R. M. Said and M.N. Sulaiman	2007	Two Fast Computation Algorithms for LUC Cryptosystems	Proceeding of the international Conference Electrical Engineering and Informatics Institute Technology Bandung Indonesia June 17-19.	---
34.	Ali M. Al-Sharafi <b>Mohamed Othman</b> Md. Nasir Sulaiman Shamala Subramaniam	2008	Modirying the Multicast Tree in AMTree Protocol using Random Core Selection	Proceedings of the International Conference on Computer and Communication Engineering 2008 May 13- 15 2008 Kuala Lumpur Malaysia	pp 323- 327
35.	Azizah Suliman Asma Shakil Md. Nasir Sulaiman <b>Mohamed Othman</b> Rahmita Wirza	2008	Hybrid of HMM and Fuzzy Logic for Handwritten Character Recognition	Proceedings International Symposium of Information Technology (ITSIM 08 <sup>o</sup> ) August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 2 pp 949- 955
36.	Azizol Abdullah <b>Mohamed Othman</b> Hamidah Ibrahim Md Nasir Sulaiman Abu Talib Othman	2008	Decentralized Replication Strategies For P2P Based Scientific Data Grid	Proceedings International Symposium of Information Technology (ITSIM 08 <sup>o</sup> ) August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 3 pp 2126- 2133

37.	Azizol Abdullah <b>Mohamed Othman</b> Md Nasir Sulaiman hamidah Ibrahim Abu Talib Othman	2008	Towards A Scalable Scientific data Grid Model and Services	Proceedings of the International Conference on Computer and Communication Engineering 2008 May 13- 15 2008 Kuala Lumpur Malaysia	pp 20- 25
38.	Idawaty Ahmad <b>Mohamad Othman</b> Zuriati Zulkarnain Muhammad Fauzan Othman	2008	Improving Utility Accrual Scheduling Algorithm for Adaptive Real-Time System	Proceedings International Symposium of Information Technology (ITSIM 08') August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 1 pp 369- 373
39.	J. Sulaiman <b>M. Othman</b> and M. K. Hasan	2008	Solving Fourth-Order Parabolic Equations by Red- Black Quarter- Sweep SOR Iterative Methods	The 3 <sup>rd</sup> International Conference on Mathematics and Statistics (ICoMS- 3) Institut Pertanian Bogor Indonesia 5- 6 August 2008	---
40.	J. Sulaiman, A. Saudi, M. Abdullah, M. Hasan, <b>M. Othman</b>	2008	Quartersweep arithmetic mean algorithm for water quality model, in: Information Technology	International Symposium on Information Technology, ITSim 2008.	Vol. 3, pp. 1 – 5
41.	Jumat Sulaiman, <b>Mohamed Othman</b> and M.K. Hasan	2008	AOR Iterative Method using Second Order Approximation for Two Points Boundary Problems	Proceedings of the Seminar on Science and Technology, October 29- 30, 2008, Labuan, Malaysia.	---
42.	M. Abdullah, <b>M. Othman</b> , H. Ibrahim, S. Subramaniam	2008	A new load balancing scheduling model in data grid application	International Symposium on Information Technology, ITSim 2008.	Vol. 1, pp. 1 –5
43.	M. Abdullah, <b>M. Othman</b> , H. Ibrahim, S. Subramaniam	2008	Simulated annealing algorithm for scheduling divisible load in large scale data grids	International Conference on Computer and Communication Engineering ICCCE 2008.	1032 –1036
44.	<b>M. Othman</b> M. Abdullah H. Ibrahim S. Subramaniam	2008	A <sup>2</sup> DLT: Divisible Load Balancing Model for Scheduling Communication- Intensive Grid Applications	International Conference on Computational Science 23- 25 June 2008 Karkow Poland	---
45.	<b>M. Othman</b> , K. Y. Lun	2008	Revisit of statistical selection algorithm for peertopeer system	International Symposium on Information Technology, ITSim 2008.	Vol. 2, pp. 1 – 7
46.	M. Sanabani S. Shamala <b>M. Othman</b> and Z. Zukarnain	2008	Adaptive Resource Allocation Scheme Based on Call Admission Control and Mobility Prediction for Multimedia Services in Wireless cellular Networks	Proceedings of the International Conference on Computer and Communication Engineering 2008 May 13- 15 2008 Kuala Lumpur Malaysia	pp 698- 701
47.	M. Sedaghat, <b>M. Othman</b> , M. Sulaiman	2008	role in grid environments during resource discovery: A review	International Symposium on Information Technology, ITSim 2008.	Vol. 3, pp. 1 – 9

48.	M. Seyedzadegan and <b>M. Othman</b>	2008	Providing Per-Station TCP Fairness in WLANs using Weighted Window Method	Proceeding of the the fourth IASTED International Conference on Communication Systems and Networks AsiaCSN 2008 Feb 2-4 2008 Langkawi Malaysia	Editor(s): M.A. Mahdi 186 pages
49.	M. Seyedzadegan, <b>M. Othman</b>	2008	Weighted window method for tcp fairness in wlans	International Symposium on Information Technology, ITSim 2008.	Vol. 4, pp. 1 – 7
50.	Mina Sedaghat <b>Mohamed Othman</b> Md. Nasir Sulaiman	2008	Agent's Role in Grid Environments during Resource Discovery: A Review	Proceedings International Symposium of Information Technology (ITSIM 08 <sup>o</sup> ) August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 3 pp 1505- 1513
51.	<b>Mohamed Othman</b> and Kweh Yeah Lun	2008	Revisit of Statistical Selection Algorithm for Peer-to-Peer System	Proceedings International Symposium of Information Technology (ITSIM 08 <sup>o</sup> ) August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 1 pp 654- 660
52.	<b>Mohamed Othman</b> and Mostafa Nikpour Kermanian	2008	Detecting and preventing peer-to-peer connections by Linux iptables	Proceedings International Symposium of Information Technology (ITSIM 08 <sup>o</sup> ) August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 4 pp 2243- 2248
53.	<b>Mohamed Othman</b> , Shukhrat I. Rakhimov and Jumat Sulaiman	2008	A Comparison of AOR and SOR for Four Points Modified Explicit Group Iterative Algorithms on SMP Computer	Proceedings of the Seminar on Science and Technology, October 29- 30, 2008, Labuan, Malaysia.	---
54.	<b>Mohamed Othman</b> , Shukhrat I. Rakhimov and Jumat Sulaiman	2008	A Fast Chessboard Accelerated Over Relaxation Quatersweep Point Iterative Poison Solver	The 4 <sup>th</sup> IMT-GT 2008 conference on mathematics Statistics and Applications 9-11 June 2008 Banda Aceh Indonesia	---
55.	Mohammad Khatim Hasan Jumat Sulaiman <b>Mohamed Othman</b>	2008	Implementation of Red Black Strategy to Quarter Sweep Iteration for Solving First Order Hyperbolic Equations	Proceedings International Symposium of Information Technology (ITSIM 08 <sup>o</sup> ) August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 3 pp 1864- 1869
56.	Mohammad Reza HeidariNezhad Zuariti Ahmad Zukarnain <b>Mohamed Othman</b>	2008	Load Balancing in Autonomous Networks through Hierarchical Traffic Scattering	Proceedings of the International Conference on Computer and Communication Engineering 2008 May 13- 15 2008 Kuala Lumpur Malaysia	pp 15- 19
57.	Mojtaba Seyedzadegana and <b>Mohamed Othman</b>	2008	Weighted Window Method for TCP Fairness in WLANs	Proceedings International Symposium of Information Technology (ITSIM 08 <sup>o</sup> ) August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 4 pp 2594- 2600
58.	Monir Abdullah <b>Mohamed Othman</b> Hamidah Ibrahim and Shamala Subramaniam	2008	A New Load Balancing Scheduling Model in Data Grid Application	Proceedings International Symposium of Information Technology (ITSIM 08 <sup>o</sup> ) August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 1 pp 570- 574

59.	Monir Abdullah <b>Mohamed Othman</b> Hamidah Ibrahim Shamala Subramaniam	2008	Simulated Annealing Algorithm for Scheduling Divisible Load on Large Scale Data Grids	Proceedings of the International Conference on Computer and Communication Engineering 2008 May 13- 15 2008 Kuala Lumpur Malaysia	pp 1032-1036
60.	Muhammad Farhan Sjaugi <b>Mohamed Othman</b> Mohd Fadlee A Rasid	2008	Progress in Source Routing Protocol for Mobile Ad Hoc Network	(ICOIN 2008) Busan Korea 21-24 Jan 2008 (appeared in IEEE XExplorer)	---
61.	Muhammad Farhan Sjaugi <b>Mohamed Othman</b> Mohd Fadlee A. Rasid	2008	Adaptive Route Maintenance Strategy for Dynamic Source Routing Protocol	Wireless and Optical Communications Networks 2008. WOCN '08. 5th IFIP International Conference on 5-7 May 2008 Surabaya	---
62.	Muhammad Farhan Sjaugi <b>Mohamed Othman</b> Mohd. Fadlee A.Rasid	2008	Mobility Models Towards the Performance of Geographical-Based Route Maintenance Strategy in DSR	Proceedings International Symposium of Information Technology (ITSIM 08') August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 3 pp 1769- 1773
63.	Nor Musliza Mustafa <b>Mohamed Othman</b> Zuriati Ahmad Zukarnain	2008	A Matrix Usage of Load Balancing Heuristic for Shortest Path Routing	Proceedings of the International Conference on Computer and Communication Engineering 2008 May 13- 15 2008 Kuala Lumpur Malaysia	pp 356- 361
64.	Noraini Md Nusi and <b>Mohamed Othman</b>	2008	Alternative Formulations for Electromagnetic Wave Propagations in Source Free Region	Proceedings of EnCon2008 December 18- 19 2008 Kuching Sarawak Malaysia.	---
65.	Noraini Md Nusi and <b>Mohamed Othman</b>	2008	An Alternative Formulation for Electromagnetic Wave Propagations in Source Free Region	The 3 <sup>rd</sup> International Conference on Mathematics and Statistics (ICoMS- 3) Institut Pertanian Bogor Indonesia 5- 6 August 2008	---
66.	Norazak Senu Mohamed Suleiman Fudziah Ismail <b>Mohamed Othman</b> and Norfifah Bachok@Lati	2008	A Four-Stage Fifth-Order Runge-Kutta-Nystrom Methods with Dispersion of High Order	The 3 <sup>rd</sup> International Conference on Mathematics and Statistics (ICoMS- 3) Institut Pertanian Bogor Indonesia 5- 6 August 2008	---
67.	Shukhrat I. Rakhimov <b>Mohamed Othman</b>	2008	A Modified Explicit Group Iterative Algorithm with Accelerated over-Relaxation for Solving Poisson Equation	The 3 <sup>rd</sup> International Conference on Mathematics and Statistics (ICoMS- 3) Institut Pertanian Bogor Indonesia 5- 6 August 2008	---
68.	Sulaiman J. Saudi A. Abdullah M. H. Hasan M.K <b>Othman M.</b>	2008	Quarter-Sweep Arithmetic Mean Algorithm For Water Quality Model	Proceedings International Symposium of Information Technology (ITSIM 08') August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 3 pp 1859- 1863
69.	T. D. Shahida, <b>M. Othman</b> , M. Khazani	2008	Fast zero algorithm for efficient message routing in optical multistage interconnection networks	International Symposium on Information Technology, ITSim 2008.	Vol. 5, pp. 1 – 6

70.	T. Shahida, <b>M. Othman</b> , M. Khazani	2008	A fast and efficient crosstalkfree algorithm for routing in optical multistage interconnection networks	5th IFIP International Conference on Wireless and Optical Communications Networks, 2008. WOCN '08.	pp. 1 –5
71.	T. Shahida, <b>M. Othman</b> , M. Khazani	2008	Integrating rlp and fast zero algorithm to improve routing performance in optical multistage inter-connection networks	International Symposium on High Capacity Optical Networks and Enabling Technologies, 2008. HONET 2008.	pp. 34 –38
72.	Tengku Dian Shahida <b>Mohamed Othman</b> Mohamad Khazani	2008	A Fast and Efficient Crosstalk- Free Algorithm for Routing in Optical Multistage Interconnection Networks	Wireless and Optical Communications Networks 2008. WOCN '08. 5th IFIP International Conference on 5-7 May 2008 Surabaya	---
73.	Tengku Dian Shahida <b>Mohamed Othman</b> Mohamad Khazani	2008	Fast ZeroX Algorithm for Efficient Message routing in Optical Multistage Interconnection Networks	Proceedings of the International Conference on Computer and Communication Engineering 2008 May 13- 15 2008 Kuala Lumpur Malaysia	pp 275- 279
74.	Tengku Dian Shahida <b>Mohamed Othman</b> Mohamad Khazani	2008	Fast ZeroY Algorithm for Efficient Message Routing in Optical Multistage Interconnection Networks	Proceedings International Symposium of Information Technology (ITSIM 08') August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 4 pp 2369- 2374
75.	Tengku Dian Shahida, <b>Mohamed Othman</b> , Mohamad Khazani	2008	Integrating RLP and Fast Zero Algorithm to Improve Routing Performance in Optical Multistage Interconnection Networks	Proceeding of the Fifth International Symposium on High Capacity Optical Networks and Enabling Technologies, HONET 2008	---
76.	Z. M. Ali <b>M. Othman</b> M.R.M. Said and M.N. Sulaiman	2008	An Efficient Computation Technique for Cryptosystems based on Lucas Functions	Proceedings of the International Conference on Computer and Communication Engineering 2008 May 13- 15 2008 Kuala Lumpur Malaysia	pp 187- 190
77.	Z. M. Ali, <b>M. Othman</b> , M. R. M. Said, M. N. Sulaiman,	2008	A simple library and basic code for luc cryptosystem computation	International Symposium on Information Technology, ITSim 2008.	Vol. 1, pp. 6 -13
78.	Z.M. Ali <b>M. Othman</b> M.R.M. Said and M.N. Sulaiman	2008	Parallel Computation for LUC Cryptosystems on Distributed Memory Multiprocessor Machine	proceeding of the fourth IASTED International Conference on Advances in Computer Science and Technology AsiaCSN 2008 Feb 2-4 2008 Langkawi Malaysia	Editor(s): S. Sahni 416 pages
79.	Zulkarnain Md Ali <b>Mohamed Othman</b> Mohd Rushdan Mohammad Nasir	2008	A Simple Library and Basic Code for LUC Cryptosystem Computation	Proceedings International Symposium of Information Technology (ITSIM 08') August 26-29 2008 Kuala Lumpur Convention Centre Malaysia	vol 1 pp 710- 716

80.	Zulkarnain Md Ali <b>Mohamed Othman</b> Mohd Rushdan Mohd Said and Mohammad Nasir Sulaiman	2008	Implementation of Parallel Algorithms for LUC Cryptosystem	Ninth ACIS International Conference on Software Engineering Artificial Intelligence Networking and Parallel/ Distributed Computing	pp 726- 731
81.	A. Japarudin, J. Sulaimon, M.K. Hasan, <b>M. Othman</b>	2009	Penyelesaian Masalah Nilai Sempadan Dua Titik Tak Linear Menerusi Kaedah Lelaran KTTTPBB Perinskat KeemDa	Simposium Kebangsaan Sains Matematik Ke-17	pp 166-171
82.	A. Shokripour, <b>M. Othman</b>	2009	Categorizing researches about dlt in ten groups	International Association of Computer Science and Information Technology - Spring Conference, IACSITSC '09.	pp. 45 –49
83.	A. Shokripour, <b>M. Othman</b>	2009	Survey on divisible load theory	International Association of Computer Science and Information Technology - Spring Conference, IACSITSC '09.	pp. 9 –13
84.	A. Shokripour, <b>M. Othman</b>	2009	Survey on divisible load theory and its ap- plications	International Conference on Information Management and Engineering, ICIME '09.	pp. 300 – 304
85.	B. Qureshi, <b>M. Othman</b> , N. Hamid	2009	Progress in various tcp variants (february 2009)	2nd International Conference on Computer, Control and Communication, 2009. IC4 2009.	pp. 1-6
86.	H. A. Mogaibel, <b>M. Othman</b>	2009	Review of routing protocols and it's metrics for wireless mesh networks	IACSITSC '09: Proceedings of the 2009 International Association of Computer Science and Information Technology Spring Conference, IEEE Computer Society, Washington, DC, USA, 2009	pp. 62–70
87.	J. Sulaiman, M. Hasan, <b>M. Othman</b> , Z. Yaacob	2009	Quartersweep arith- metic mean iterative algorithm to solve fourthorder parabolic equations	International Conference on Electrical Engineering and Informatics, ICEEI '09.	Vol. 01, pp. 194 –198
88.	J. Sulaiman, <b>M. Othman</b> , M. K. Hasan	2009	Nine pointedgsor iterative method for the finite element solution of 2d poisson equations	ICCSA '09: Proceedings of the International Conference on Computational Science and Its Applications, SpringerVerlag, Berlin, Heidelberg	pp. 764–774
89.	<b>M. Othman</b> , M. Abdullah, H. Ibrahim, S. Subramaniam	2009	New optimal load allocation for scheduling divisible data grid applications	ICCS '09: Proceedings of the 9th International Conference on Computational Science, SpringerVerlag, Berlin, Heidelberg	pp. 165–174
90.	<b>M. Othman</b> , M. Abdullah, H. Ibrahim, S. Subramaniam	2009	New Optimal Load Allocation for Scheduling Divisible Data Grid Applications	Computational Science – ICCS 2009	pp. 165-174
91.	M. Seyedzadegan, <b>M. Othman</b>	2009	Classbased weighted window for tcp fairness in wlans	International Conference on Future Networks	pp. 196 – 202

92.	Mohammad Khatim Hasan, <b>Mohamed Othman</b> , Zulkifly Abbas, Jumat Sulaiman, Fatimah Ahmad	2009	Fourth Order Approximation with Complexity Reduction Approach for the Solution of Time Domain Maxwell Equations in Free Space	Computational Science and Its Applications – ICCSA 2009	Pp 752-763
93.	Mohd Kamalrulzaman Md Akhir, <b>Mohamed Othman</b> , Jumat Sulaima, oshahbudin Saad	2009	Modified SOR Iterative Method to Solve Two-Dimensional Steady Burgers Equations	Simposium Kebangsaan Sains Matematik Ke-17	pp 148-153
94.	N. Irwan, <b>M. Othman</b> , R.N. Farah	2009	Connectivity of Chordal Rings Degree Three with a Type Pair of Nodes as Classes Network Topology	Simposium Kebangsaan Sains Matematik Ke-17	pp 986-991
95.	N. J. Yee, <b>M. Othman</b>	2009	Review on fpgabased systolic poisson solver	International Conference on Computer Technology and Development, ICCTD '09	Vol. 1, pp. 336 –339
96.	Norma Alias, Roziha Darwis, Noriza Satam, <b>Mohamed Othman</b>	2009	Parallelization of Temperature Distribution Simulations for Semiconductor and Polymer Composite Material on Distributed Memory Architecture	Parallel Computing Technologies	pp. 392-398
97.	Ummul Khair Salma Din, Fudziah Ismail, Mohamed suleiman, Zanariah Abdul Majida, <b>Mohamed Othman</b>	2009	Parallel 4(3) Runge-Kutta Pairs for Solving Linear Stiff Ordinarl Differential Equation	Simposium Kebangsaan Sains Matematik Ke-17	pp 160-165
98.	Wong Tze Jinr, Mohd. Rushdan Md. Said, <b>Mohamed Othman</b> , Kamel Ariffin Mohd Atana	2009	Faults Based Attack on the Fourth Order of LUC Cryptosystem	Simposium Kebangsaan Sains Matematik Ke-17	pp 44-49
99.	Seyyed Masoud Seyyedoshohadaei, Sabira Khatun, Borhanuddin Mohd Ali, <b>Mohamed Othman</b> , Farhat Anwar,	2009	An Integrated Scheme to Improve Performance of Fast Mobile IPv6 Handover in IEEE 802.16e Network,	The Ninth IEEE Malaysia International Conference on Communications (MICC 2009), Kuala Lumpur, Malaysia , Dec. 15 – 17, 2009	IEEE explorer (available for download)
100.	A. Shokripour, <b>M. Othman</b>	2010	Scheduling jobs in a heterogeneous system with unreliable network links by DLT	Second International Conference on Communication Software and Networks, ICCSN '10.	pp. 68 –72
101.	Hassen Abd-Almotaleb Mogaibel, <b>Mohamed Othman</b> , Shamala Subramaniam and Nor Asilah Wati Abdul Hamid	2010	Channel Reservation Scheme Based on AODV Routing Protocol For Common Traffic in Wireless Mesh Network	Second International Conference on Computer and Network Technology, 23-25 April, 2010	IEEE explorer (available for download)
102.	Naeem Khademi and <b>Mohamed Othman</b>	2010	Least attained service queue management for ns-2 network simulator	Second International Conference on Computer Research and Development, 7-10 May 2010	IEEE explorer (available for



					download)
103.	Ibrahim Al-Surmi, <b>Mohamed Othman</b> , Borhanuddin M. Ali	2010	Review on Mobility Management for Future-IPbased Next Generation Wireless Networks	The 12th International Conference on Advanced Communication Technology (ICACT), 2010, 7-10 Feb. 2010	IEEE explorer (available for download) pp: 989 - 994
104.	Muhammad Farhan Sjaugi, <b>Mohamed Othman</b> , Mohd. Zul Mohd. Yusoff, Nazmin Narsyarul Minhat, Suhaimi Napis	2010	Fostering E-Science Application in Campus Grid Infrastructure Based on gLite Middleware	2nd International Conference on Education Technology and Computer (ICETC), 22-24 June 2010	IEEE explorer (available for download)
105.	Hassan Barjini, <b>Mohamed Othman</b>	2010	<i>SmoothFlood</i> : Decreasing Redundant Messages and Increasing Search Quality of Service in Peer-to-Peer Networks	International Conference on Information Retrieval & Knowledge Management, (CAMP), 2010 17-18 March 2010	IEEE explorer (available for download) pp: 138 - 142
106.	Ammar Mohammed Al-Jubari, <b>Mohamed Othman</b>	2010	A New Delayed ACK Strategy for TCP in Multi-hop Wireless Networks	International Symposium on Information Technology 2010 (ITSim 2010), 15-17 June 2010	IEEE explorer (available for download)
107.	<b>Mohamed Othman</b> Rakhimov S. Mohamed Suleiman, Jumat Sulaiman	2010	A Parallel Accelerated Over-Relaxation (AOR) Quarter Sweep Point Iterative Algorithm for Solving the Poisson Equations	International Conference on Industrial and Applied Mathematics (CIAM 2010), Bandung, Indonesia, July 6-9 2010	pp: 40-43
108.	J. Sulaiman, M.K. Hasan, <b>M. Othman</b> , and S. A. Abdul Karim	2010	Fourth Order QSMOR Iterative Method for the Solution of 1D Parabolic	International Conference on Industrial and Applied Mathematics (CIAM 2010), Bandung, Indonesia, July 6-9 2010	pp: 34-39
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### 13. PATENTS / COPYRIGHTS

Mohamed Othman, Anwar Saif, 2012, *A Method for Adjusting Aggregation Size Based on Acknowledgement (ACK) Bitmap*, (Granted patent file no: **PI 2012700842**)

### 14. CONFERENCES/COURSES/SEMINAR ATTENDED

1. Inter Conference on Computation Science (ICCS 2013), *Cost-Based Multi-QoS Job Scheduling Using Divisible Load Theory in Cloud Computing*, June, 5-7, 2013, Barcelona, Spanish (**presenter**)
2. Inter Conference on Computation Science (ICCS 2012), *An Optimized A-MSDU Frame Aggregation with Subframe Retransmission in IEEE 802.11n Wireless Networks*, June, 4-6, 2012, Omaha, Nebraska, USA (**presenter**)

3. 5<sup>th</sup> Inter Conference on High Performance Scientific Computing (HPSC 2012), *A Parallel AOR Modified Explicit Group Method for Solving Poisson Problem on Distributed Memory Architecture*, March 5-9, 2012, Hanoi, Vietnam (**presenter**)
4. International Conference on Information and Industrial Electronics (ICIIE 2011), *Scheduling Divisible Data Grid Applications: An Optimal Load Allocation Model*, Chengdu, China; Jan., 14-15, 2011(**keynote speaker**)
5. World Conference on Information Technology (WCIT 2010), *A New Method for Job Scheduling in a Non-Dedicated Heterogeneous System*, Istanbul, Turkey, Oct 6-11, 2010, (**presenter**)
6. Workshop on the 6<sup>th</sup> High Performance Computing, 2010, *HIGH PERFORMANCE COMPUTING (HPC), UPMNet, Issues and Challenges*, INSPEM, University Putra Malaysia, Oct 13-14, 2010 (**keynote speaker**)
7. International Conference on Industrial and Applied Mathematics (CIAM 2010), *A Parallel Accelerated Over-Relaxation (AOR) Quarter Sweep Point Iterative Algorithm for Solving the Poisson Equations*, Bandung, Indonesia, July 6-9, 2010, (**presenter**)
8. The 9<sup>th</sup> International Conference on Computational Science: Compute. Discover. Innovate (ICCS 2009), *New Optimal Load Allocation for Scheduling Divisible Data Grid Applications*, Baton Rouge, Louisiana, U.S.A, May 25-27, 2009, (**presenter**)
9. Workshop on the 5<sup>th</sup> High Performance Computing, 2009, INSPEM, University Putra Malaysia, (**keynote speaker**)
10. The Fifth International Symposium on High Capacity Optical Networks and Enabling Technologies, HONET 2008, *Integrating RLP and Fast Zero Algorithm to Improve Routing Performance in Optical Multistage Interconnection Networks*, Penang, Nov 18-20, 2008 (**presenter**)
11. The 7<sup>th</sup> Annual Seminar in Science and Technology, *A Comparison of AOR and SOR for Four Points MEG Iterative Algorithm on SMP Paralel Computer*, Labuan, Malaysia, Oct 28-30, 2008 (**presenter**)
12. Workshop on the 4<sup>th</sup> High Performance Computing, Oct 22-23, 2008, INSPEM, University Putra Malaysia, (**keynote speaker**)
13. Workshop on Intel Multicore Programming, July 21-25, 2008, University Scince of Malaysia, Penang (**participant**)
14. The 8<sup>th</sup> International Conference on Computational Science: Advancing Science and Society through Computation (ICCS 2008), *A<sup>2</sup>DLT: Divisible Load Balancing Model for Scheuling Communication-Intensive Grid Applications*, Karkow, Poland, June 23-26, 2008, (**presenter**)
15. The 4<sup>th</sup> IMT-GT Conference on Mathematics, Statistics and Applications, *A Fast Chessboard Accelerated Over Relaxation Quartersweep Points Itearative Poisson Solver*, Banda Aceh, Indonesia, June 9-11, 2008 (**presenter**)
16. Workshop on Finite Difference Methods for Differential Equation, *A Family of Four Points Explicit Group Iterative Algorithm and Their Parallel Implementation*, Universiti Sains Malaysia, Penang, April 24, 2008 (**invited speaker**)

17. Workshop on ICT and R&D, Brain Gain Malaysia, Malaysian Academic of Science, 18 Mac, 2008, Malaysain Academic of Science, Kuala Lumpur **(participant)**
18. Workshop on ICT and R&D, Brain Gain Malaysia, Malaysian Academic of Science, 18 Mac, 2008, Malaysain Academic of Science, Kuala Lumpur **(participant)**
19. The third IMT-GT 2007 Conference on Mathematics, Statistics and Applications, *The Four Points MEG Iterative Method using Triangle Finite Element Approximation for 2D Poisson Equation*, Penang, Malaysia, 5 – 6 Dec 2007, **(presenter)**
20. *Multi-core Technology – Its Importance in Applications Software Development and National Competitiveness*, Sept 25, 2007, MMU, Cyberjaya, **(participant)**
21. *Workshop on Learning Outcome Initiative (LO3) Modular Approach 2/2007*, Centre for Academic Development (CADE), UPM, Sept 6, 2007 **(participant)**
22. *Workshop on Learning Outcome Initiative (LO3) Case Study 1/2007*, Centre for Academic Development (CADE), UPM, Sept 3, 2007 **(participant)**
23. World Engineering Congress (WEC 2007), *Efficient Query Propagation by Adaptive Bordercast Operation in Dense Ad Hoc Network*, Penang, Malaysia, 5 – 9 August 2007, **(presenter)**
24. 14<sup>th</sup> IEEE International Conference On Telecommunications (ICT 2007) and 8th IEEE Malaysia International Conference on Communications (MICC, 2007), *Efficient Window Method for Optical Multistage Interconnection Network*, 14-17 May 2007, Penang, Malaysia, **(presenter)**
25. Seminar on Businesses and Commercialization on via MTDC, UBC, RMC, ICC and MTDC, August 2, 2007 **(participant)**
26. 7<sup>th</sup> International Conference on Computational Science: Advancing Science and Society through Computation (ICCS 2007), *Adaptive Divisible Load Model for Scheduling Data-Intensive Grid Applications*, Chinese Academy of Sciences, Beijing, China, May 27-30, 2007, **(presenter)**
27. Research at the Speed of High Performance Computing (HPC), “*Enhancing Research Cooperation between Malaysia and the UK*”, June 4, 2007, Le Meridian Hotel, Kuala Lumpur, **(participant)**
28. 14<sup>th</sup> International Conference on Telecommunications and 8<sup>th</sup> IEEE Malaysian International Conference on Communications, *Investigating Multicast Tree with Multiple Sources in AMTree Protocol*, May 14-17, 2007, Penang, Malaysia **(participant)**
29. Workshop on MyRen, *Networking Best Practices of the Other Research and Education Networks*, May 9-10, 2007, MDec, Cyberjaya, Malaysia **(participant)**
30. Workshop on *Create Your Own IP-PBX in A Day*, 7 May 2007, Petaling Jaya, Selangor D.E., **(participant)**
31. Seminar on the Next Generation Network Symposium: *Malaysian IPv6 Forum Kick-Off*, Mac 15-16, 2007, Putrajaya, **(participant)**

32. Seminar on the *Operation Research and Their Applications* (by visiting Professor Chris N. Potts), Jan 15-19, 2007, INSPPEM, UPM (**participant**)

## 15. PROFESSIONAL MEMBERSHIPS

**Life Membership** of Malaysian Mathematical Society (Membership No: **MS2000-2**)

**Life membership** of Malaysian Information, Communication and Technology Society (MICT) (Membership No: **L080120**)

Member of IEEE Computer Society (July 2007 - now) (IEEE No: **90245654**)

Member of IEICE (July 2007- Dis 2008) (IEICE No: **0783897**)

Member of Malaysian National Computer Confederation (MNCC) (MNCC No: **M2140**)

Member of International Association of Engineers (IAENG No: **62310**)

Member of World Internet Society (ISOC)

Member of University Putra Malaysia Academic Staff Association