

Curriculum Vitae



Dr Osman Ghazali

Associate Professor/Deputy Dean
School of Computing
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Dr Osman Ghazali is an Associate Professor and the Deputy Dean of the School of Computing, Universiti Utara Malaysia. Osman holds a PhD degree in Information Technology (Networking) from Awang Had Salleh Graduate School, Universiti Utara Malaysia (AHSGS). He was a visiting research fellow at the School of Engineering & Applied Science, Aston University (EAS) in 2012. In 2011, Osman was the Head of Computer Science Department, School of Computing, Universiti Utara Malaysia. Prior to that, from 2009 to 2011, he was the Technical Chairperson at the University Teaching and Learning Center, Universiti Utara Malaysia.

Dr. Osman research interest is Internetworking, Cloud Computing and Information Security. He has more than 100 publications as refereed book chapters, and refereed technical papers in journals and conferences. He is a senior member of the InterNetworks Research Laboratory (IRL). He is also a member of the IEEE and the ACM.

Research Interests

Internetworking, Cloud Computing and Information Security

Education

1. Secondary School, Maktab Rendah Sains MARA Pengkalan Chepa (1983-1987)
2. Matriculation Programme, Maktab Rendah Sains MARA Kulim (1988-1990)
3. Bachelor of Information Technology, Universiti Utara Malaysia (1994)
4. MSc Information Technology, Universiti Utara Malaysia (1996)
5. PhD Information Technology (Computer Networking), Universiti Utara Malaysia (2008)

Administrative Positions

1. Deputy Dean, School of Computing, Universiti Utara Malaysia (2013 – Present)

2. Head of Computer Science Department, School of Computing, Universiti Utara Malaysia (2011)
3. Technical Chairperson, University Teaching and Learning Centre, Universiti Utara Malaysia (2009 – 2011)
4. Manager, Software Development and Innovation Institute, UUM CAS, Universiti Utara Malaysia (2007 – 2008)

Employment History

1. Associate Professor, Universiti Utara Malaysia (2012 – Present)
2. Research Fellow, School of Engineering & Applied Science, Aston University (2012)
3. Senior Lecturer, Universiti Utara Malaysia (2008 – 2012)
4. Lecturer, Universiti Utara Malaysia (1996 – 2008)
5. Tutor, Universiti Utara Malaysia (1994 – 1996)

Professional Memberships

1. Member of IEEE
2. Member of ACM
3. Member of Internet Society

Professional Certifications

1. Certified Cisco Network Administrator
2. Certified Cisco Network Instructor
3. Certified Microsoft Programming in HTML5 with JavaScript and CSS3

Undergraduate Teaching

1. SDG1011 High Touch Communication
2. SDG1021 Thinking Skills
3. SDG2011 Personal Financial Planning
4. SDG2021 Volunteerism and Patriotism
5. STIJ3143 Current Issues in Network
6. STQM1203 Mathematics for Information Technology
7. STQS1023 Statistics for Information Technology
8. TA1013 Basic Programming
9. TA2014 Programming Languages
10. TD1013 Organizational Information System
11. TD3014 Database Processing and Information Retrieval
12. TIJ3023 Computer Network
13. TIJ3063 Distributed Computing
14. TM1013 Mathematics for Management
15. TN2034 Expert System
16. TS1013 Basic Statistics

Postgraduate Teaching

1. STIJ5024 Distributed Systems
2. STIJ5024 Internet Technology
3. STIK5014 Computer Systems And Networks

4. TM5013 Information Technology for Managers

Funded Research Projects

1. Data Breach Prevention Model For Securing Data Privacy And Confidentiality In Cloud Computing Using Enhanced AES, FRGS, 2018 - **Project Leader**
2. Adaptive QoS Monitoring Mechanisms For Cloud Computing Services, FRGS, 2014 - **Project Leader**
3. Improving K-Means Clustering Algorithm Using Discretization Technique In Network Intrusion Detection System, FRGS, 2014 - **Project Member**
4. Investigating The Effects Of Skill-Challenge Balancing (SCB) Technique On Student's Engagement In Computer Based Learning System For Java Programming Course, SOTL Research Grant, 2014 - **Project Member**
5. Kajian "Senario Dan Pembinaan Modul Training Of Trainers (TOT) Dalam Bidang Instructional Design And Strategies", AKEPT Research Grant, 2014 - **Project Member**
6. Enhancement Of A Stepping Stone Detection Algorithm Using Data Mining And Associate Rule Techniques, FRGS, 2013 - **Project Member**
7. LIPRICCA: A Reliable Routing Mechanism for MANET based on Dynamic Source Routing Protocol, Pascasiswazah Research Grant, 2012 - **Project Member**
8. An Extension to Ad Hoc Demand Distance Vector Multipath Protocol based on Energy Awareness, LEADS Research Grant, 2011 - **Project Leader**
9. An Efficient and Reliable Greedy Forwarding for Position-Based Routing in Mobile Ad-Hoc Network, Pascasiswazah Research Grant, 2011 - **Project Leader**
10. Bee-Inspired Trust System For Cloud Computing, PBIT Research Grant, 2011 - **Project Member**
11. Kajian Penggunaan Aplikasi Pengkomputeran Awan (Cloud Computing) Bagi Kemudahan ICT di Luar Bandar, ITU Research Grant, 2011 - **Project Leader**
12. A Reliable Routing Protocol For Wireless Communication, LEADS Research Grant, 2011 - **Project Member**
13. Designing A Mechanism To Solve Link Failure Connectivity In DSR MANET, Pascasiswazah Research Grant, 2011 - **Project Leader**
14. Development Of Novel High-Speed Holographic Mode-Selective Receiver For Multimode Fibre Networks LEADS Research Grant, 2011 - **Project Member**
15. A New Dynamic FEC To Support Video Streaming Over Wireless Network, FRGS, 2010 - **Project Leader**
16. Penghasilan Objek Pembelajaran Sebagai Alat Bantuan Aktiviti Pembelajaran Dan Pengajaran, University Research Grant, 2010 - **Project Member**
17. Intelligent DNA Signature Detection For Internet Worms, University Research Grant, 2009 - **Project Leader**
18. Pelan Strategik Pembangunan ICT Negeri Kedah (2008) - **Project Member**
19. Assessment Of Telecentres Implemented In Peninsular Malaysia By State Governments NGO's And Private Sectors (2008) - **Project Member**
20. Research Grant For The Study On Broadband Usage In Kedah And Perlis (2008) - **Project Member**
21. Traffic Modeling Of Web Application, FRGS, 2007 - **Project Member**
22. Design Of Receiver-Based Layered Multicast Protocol University Research Grant, 2005 - **Project Leader**

23. Layered Multicast: Performance Study Of Round Trip Time Estimation For TCP-Equation Model, University Research Grant, 2005 - **Project Member**
24. The Development Of An Information System And An Investigation Of The Entrepreneurship Predictor Model For The Student Entrepreneurship Program-Siswaniaga, University Research Grant, 1997 - **Project Member**

Research Supervision (Graduated)

1. Boubakeur Annane (PhD in Computer Science). Secure Policies for the Distributed Virtual Machines in Mobile Cloud Computing. Graduated in 2020.
2. Fazli Azzali (PhD in Computer Science). An Intelligent Network Selection Mechanism for Vertical Handover Decision in Vehicular Ad Hoc Wireless Networks. Graduated in 2020.
3. Shahzada Khurram (PhD in Computer Science). Enhanced IPFIX Flow Processing Mechanism for Cloud Overlay Network Monitoring. Graduated in 2019.
4. Jailani Abdul Kadir (PhD in Computer Science), Route Discovery Based On Energy-Distance Aware Routing Scheme For MANET, Graduated in 2016.
5. Mohamed Fazil Mohamed Firdhous (PhD in Computer Science), An Adaptive Trust Based Service Quality Monitoring Mechanism For Cloud Computing, Graduated in 2016.
6. Mahmoud Ali Ibrahim Al-Shugran (PhD in Computer Science), GSAR: Greedy Stand-Alone Position-Based Routing Protocol To Avoid Hole Problem Occurrence In Mobile Ad Hoc Networks, Graduated in 2014.
7. Naseer Ali Husieen (PhD in Computer Science), An Optimized Reliable Multipath Dynamic Source Routing Protocol For Multimedia Applications In Mobile Ad-Hoc, Graduated in 2013.
8. Mohammad M. Rasheed (PhD in Computer Science), An Innovative Signature Detection System For Polymorphic And Monomorphic Internet Worms Detection And Containment, Graduated in 2012.
9. Shahrudin Awang Nor (PhD in Information Technology), Enhancing Datagram Congestion Control Protocol for Efficient Long Delay Link, Graduated in 2012.
10. Sayid Mohamed Abdule (PhD in Computer Science), Predictive Divert Failure Route Protocol For Mobile Ad-Hoc Networks Based On Ad-Hoc On Demand Distance Vector, Graduated in 2012.
11. Ahmad Suki Che Mohamed Arif (PhD in Information Technology), Slight-Delay Shaped Variable Bit Rate (SD-SVBR) Technique For Video Transmission, Graduated in 2011.
12. Omar Mohammad Deeb Al-Momani (PhD in Information Technology), Dynamic Redundancy Forward Error Correction Mechanism for the Enhancement of Internet-Based Video Streaming, Graduated in 2010.
13. Azamuddin Abdul Rahman (Masters in Information Technology), Enhancements of Round Trip Time (RTT) and Packet Loss Rate (PLR) in Explicit Rate Adjustment (ERA) Protocol, Graduated in 2010.
14. Nur Ziadah Harun (Masters in Information Technology), Enhancement of Adaptive Forward Error Correction Mechanism for Video Transmission over Wireless Local Area Network. Graduated in 2012.

PhD and Masters Viva Committee

1. Chairman, Masters Viva Committee for Ruzita Ahmad (804226), Title: The Development of an Intelligent-Pragmatic Quality Factor (i-PQF) Algorithm Using Feature Ranking Technique (FRT), 9 May 2013.
2. Chairman, Masters Viva Committee for Mohammad Faizal Azid @ Aziz (805416), Title: Sistem Tempahan Makanan dan Minuman, 21st May 2015.
3. Chairman, Masters Viva Committee for Noor Shahifah Muhamad (813599), Title: Enhanced Single Exponential Smoothing Technique for Extreme Data, 5th August 2015.
4. Chairman, PhD Viva Committee for Hamisu Ibrahim Abubakar (94430), Title: A Usability Evaluation Model for Mobile Banking Application Interface, 16th November 2016.
5. Chairman, Masters Viva Committee for Sunariya Utama (817462), Title: An Enhanced Evaluation Measurement of Feature-Based Techniques in Text Steganography Method, 17th January 2017.
6. Chairman, Masters Viva Committee for Ayman Ahmad Mohammad Zayyan (815357), Title: An Automatic Diacritization Algorithm for Undiacritized Arabic Text, 17 May 2017.
7. Chairman, Masters Viva Committee for Mohd Nazif Badruddin (819137), Title: Analisis Pembentukan Mesej Dakwah Islamiah Dalam Halaman Facebook, 15th June 2017.
8. Chairman, PhD Viva Committee for Taufiq Hail Ghilan Al-Madhagy (900427), Title: Acceptance Model of Saas Cloud Computing Towards Green Computing At Malaysian Public Universities, 10th January 2018.
9. Chairman, PhD Viva Committee for Shelena a/p Soosay Nathan (900538), Title: A Usability Evaluation Model for Hearing Impaired Mobile Applications Interface, 27th March 2018.
10. Chairman, PhD Viva Committee for Azizi Abas (95813), Title: Coloured Quick Response Code Algorithm Using RGB Colour Combination, 31st Mei 2018.
11. Chairman, PhD Viva Committee for Kawakib Khadyair Ahmed Al-Ethawi (94434), Title: An Agent Based Routing and Ferry Mechanism for Delay Tolerant Network, 6th August 2018.
12. Chairman, PhD Viva Committee for Mohd Hamdi Irwan Hamzah (95243), Title: A Service-Oriented Architecture Adoption Maturity Model Focuses On Cross Evaluation Between It And Business Benefits, 10th December 2018.
13. Chairman, PhD Viva Committee for Ghaith Abdulsattar A. Jabbar Alkubaisi (900600), Title: Stock Market Classification Model Using Sentiment Analysis On Twitter Based On Hybrid Naive Bayes Classifiers, 14th January 2019.
14. Chairman, PhD Viva Committee for Hapini Awang (900998), Title: Post-Implementation Evaluation Model to Measure Virtual Learning Environment Success among Malaysian Teachers, 7th January 2019.
15. Chairman, PhD Viva Committee for Olanrewaju Abdus-Samad Temitope (901087), Title: Influence Maximisation And Information Diffusion Cost On Social Networks: An Application Towards Target Users And Information Needs, 23 September 2019.
16. Chairman, PhD Viva Committee for Mohammed Shihab Ahmed Al-Juboori (900467), Title: Extended Expectation Confirmation Theory Affecting Satisfaction to Increase Utilization of Open Government Data in Malaysia, 13th November 2019.

17. Chairman, PhD Viva Committee for Mohammed Gamal Ahmed Ali Alsamman (95138), Title: A Hybrid Rate Control Mechanism for Transport Control in Named Data Networks, 5th February 2020.
18. Chairman, PhD Viva Committee for Hayder Naser Khraibet Al-Behadili (901983), Title: An Adaptive Ant Colony Optimization Algorithm for Rule-Based Classification, 27th February 2020.
19. Chairman, PhD Viva Committee for Tendai Zengeni (901324), Title: Design And Simulation Of Elliptical Core Fiber Switch In Mode Division Multiplexing For Enhancing Bandwidth Capacity And Switching Speed In Data Center Interconnects, 2nd December 2020.

Publications

1. Annane, B., Alti, A. & **Ghazali, O.** (2020). Research Gaps Based Virtualization in Mobile Cloud Computing. *International Journal of Advanced Computer Research*, 10(51), 212-222.
2. Annane, B., Alti, A. & **Ghazali, O.** (2020). SecNetworkCloudSim: An Extensible Simulation Tool for Secure Distributed Mobile Applications. *International Journal of Communication Networks and Information Security*, 12(1), 47-62. (Indexed by SCOPUS)
3. Saleh, O. S., **Ghazali, O.** & Rana, M. E. (2020). Blockchain Based Framework for Educational Certificates Verification. *Journal of Critical Reviews*, 7(3), 79-84. (Indexed by SCOPUS)
4. **Ghazali, O.** & Khurram, S. (2019). Enhanced IPFIX Flow Monitoring for VXLAN Based Cloud Overlay Networks. *International Journal of Electrical and Computer Engineering*, 9(6), 5519-5528. (Indexed by SCOPUS)
5. Saleh, O. S., **Ghazali, O.** & Maatouk, Q. A. (2019). Graduation Certificate Verification Model: A Preliminary Study. *International Journal of Advanced Computer Science and Applications*, 10(7), 575-582. (Indexed by SCOPUS)
6. Annane, B. & **Ghazali, O.** (2019). Virtualization-based security techniques on mobile cloud computing: Research gaps and challenges. *International Journal of Interactive Mobile Technologies*, 19(4), 20-32. (Indexed by SCOPUS)
7. **Ghazali, O.**, Yang, L. C., Qaiser, S., Pattabiraman, N., Vasithevan, S. Abdusalam, E. M. A. & Barakat, M. M. (2019). Cloud-based global online marketplaces review on trust and security. *International Journal of Interactive Mobile Technologies*, 13(4), 96-116. (Indexed by SCOPUS)
8. Daud, A. Y., **Ghazali, O.**, Omar, M. N., Dahliyusmanto, D., & Anggara D.W. (2019). A Study on the Performance Metrics for Evaluating Stepping Stone Detection (SSD). *International Journal of Innovative Technology and Exploring Engineering*, 8(55), 144-146. (Indexed by SCOPUS)
9. Omar, M. N., Daud, A. Y., & **Ghazali, O.** (2019). A stepping stone perspective to detection of network threats: Spam detection. *International Journal of Innovative Technology and Exploring Engineering*, 8(55), 126-131. (Indexed by SCOPUS)
10. Daud, A. Y., **Ghazali, O.**, & Omar, M. N. (2019). Stepping Stone Detection: Measuring the SSD Capability. *International Journal of Innovative Technology and Exploring Engineering*, 8(55), 140-143. (Indexed by SCOPUS)
11. Rasheed, M. M., Norwawi, N. M., **Ghazali, O.**, & Faaeq, M. K. (2019). Detection Algorithm For Internet Worms Scanning That Used User Datagram Protocol.

- International Journal of Information and Computer Security, 11(1), 17-32. (Indexed by SCOPUS)
12. **Ghazali, O.**, & Saad, O. (2018). A Graduation Certificate Verification Model via Utilization of the Blockchain Technology. *Journal of Telecommunication, Electronic and Computer Engineering*, 10(3-2), 29-34. (Indexed by SCOPUS)
 13. Din, R., **Ghazali, O.**, & Qasim, A. J. (2018). Analytical Review On Graphical Formats Used In Image Steganographic Compression. *Indonesian Journal of Electrical Engineering and Computer Science*, 12(2), 441-446. (Indexed by SCOPUS)
 14. Din, I. U., Hassan, S., Khan, M. K., Guizani, M., **Ghazali, O.**, & Habbal, A. (2018). Caching In Information-Centric Networking: Strategies, Challenges, And Future Research Directions. *IEEE Communications Surveys and Tutorials*, 20(2), 1443-1474. (Indexed by SCOPUS) (Q1 Journal)
 15. Daud, A. Y., **Ghazali, O.**, & Omar, M. N. (2018). Anomaly Techniques In Stepping Stone Detection (SSD): A Review. *Journal of Telecommunication, Electronic and Computer Engineering*, 10(1-10), 61-66. (Indexed by SCOPUS)
 16. Jebur Taher, S., **Ghazali, O.**, & Hassan, S. (2018). A Review On Cache Replacement Strategies In Named Data Network. *Journal of Telecommunication, Electronic and Computer Engineering*, 10(2-4), 53-57. (Indexed by SCOPUS)
 17. **Ghazali, O.**, Tom, A. B., Tahir, M. T., Hassan, S., Shahrudin, A. N., & Mohd Shabli, A. H. (2017). Security Measurement as a Trust in Cloud Computing Selection and Monitoring. *Journal of Advances in Information Technology*, 8(2), 100-106.
 18. Omar, M., Ahmad, M., Yasin, A., Ibrahim, H., **Ghazali, O.**, & Khamis, S. (2018). The Impact Of Wi-Fi Usage On Students' Academic Performance. *International Journal of Engineering and Technology (UAE)*, 7(4.19 Special Issue 19), 240-244. (Indexed by SCOPUS)
 19. Khurram, S., & **Ghazali, O.** (2018). Design And Development Of VXLAN Based Cloud Overlay Network Monitoring System And Environment. Paper presented at the 15th International Conference on Information Technology- New Generations, Las Vegas, USA. (Indexed by SCOPUS)
 20. Saher, N., Baharom, F., & **Ghazali, O.** (2018). Requirement Change Taxonomy And Categorization In Agile Software Development. Paper presented at the 6th International Conference on Electrical Engineering and Informatics: Sustainable Society through Digital Innovation (ICEEI 2017), Langkawi, Malaysia. (Indexed by SCOPUS)
 21. Omar, M., Ahmad, M., Yasin, A., Ibrahim, H., **Ghazali, O.**, & Khamis, S. (2018). Wifi Usage And Student Performance: Examining The Interrelations For UUM Students. Paper presented at the 3rd International Conference on Applied Science and Technology (ICAST'18), Penang, Malaysia. (Indexed by SCOPUS)
 22. Katuk, N., Zakaria, N. H., Wahab, A. A., & **Ghazali, O.** (2017). IT-Tutor: An Architecture For Web-Based Content Sequencing System. *Advanced Science Letters*, 23(5), 3975-3979. (Indexed by SCOPUS)
 23. Rana, M. E., Saleh, O. S., & **Ghazali, O.**, (2017). Cloud Based Software Engineering Learning Environment: Guidelines To Host Software Engineering Tools On The Cloud. *Journal of Theoretical and Applied Information Technology*, 95(3), 525-542. (Indexed by SCOPUS)
 24. Azzali, F., **Ghazali, O.**, & Omar, M. H. (2017). Fuzzy Logic-Based Intelligent Scheme For Enhancing Qos Of Vertical Handover Decision In Vehicular Ad-Hoc Networks.

- Paper presented at the International Conference On Advances In Computing And Intelligent System (ICACIS2017), Melaka, Malaysia. (Indexed by SCOPUS)
25. Katuk, N., Zakaria, N. H., Wahab, A. A., & **Ghazali, O.** (2017). Student's Engagement In Computer-Based Learning: Skill-Challenge Balancing Technique For Learning Programming. *International Journal of Computer Information Systems and Industrial Management Applications*, 9(2017), 32-42. (Indexed by SCOPUS)
 26. Neamah, M. A., Hussain, A., Puteh, N., & **Ghazali, O.** (2017). Modeling A Mobile Arabic Learning Application For Children In Malaysia. *Journal of Engineering and Applied Sciences*, 12(Specialissue3), 6569-6575. (Indexed by SCOPUS).
 27. Azzali, F., **Ghazali, O.** and Omar, M. H. (2017). Performance Analysis Of Vertical Handover In Vehicular Ad-Hoc Network Using Media Independent Handover Services. *Journal of Telecommunication, Electronic and Computer Engineering*, 9(2-11), 13-18. (Indexed by SCOPUS).
 28. **Ghazali, O.**, & Saleh, O. S. (2016). Cloud-Based Graduation Certificate Verification Model. Paper presented at the Academics World 54th International Conference, Malacca, Malaysia.
 29. Faisal Shahzad, **Osman Ghazali**, Shahzada Khurram and Shakir Zufayri Osman (2015). A Quad Security Framework (QSF) for Minimizing Data Breaches in Cloud Computing. 4th International Conference on Internet Applications, Protocols and Services (NETAPPS 2015), 1-3 Dec, 2015.
 30. Shahzada Khurram, **Osman Ghazali**, and Faisal Shahzad and Ainin Sofia Osman (2015). A Survey of Cloud Monitoring: High Level, Low Level, Underlay and Overlay. 4th International Conference on Internet Applications, Protocols and Services (NETAPPS 2015), 1-3 Dec, 2015.
 31. Mohamed, A., Zakaria, N.H., & **Ghazali, O.** (2015). An Enhancement of Computer Incident Response Model for Organization: A Study of Premium Pension Limited Nigeria. 4th International Conference on Internet Applications, Protocols and Services (NETAPPS 2015), 1-3 Dec, 2015.
 32. Firdhous, M., **Ghazali, O.**, and Hassan, S., Cloud Computing for Small Businesses: A Profitability Analysis. 4th International Conference on Internet Applications, Protocols and Services (NETAPPS 2015), 1-3 Dec, 2015.
 33. Mohamad Tahir, H., Zakaria, N.H., Katuk, N., Kabir Ahmad, F., Omar, M.H., **Ghazali, O.**, & Yahya.N.I (2015). Hybrid Machine Learning Technique for Intrusion Detection System. *Proceedings of the 5th International Conference on Computing and Informatics*. 1(1), 464 - 472.
 34. Yusni, A., **Ghazali, O.**, & Omar, M.N. (2015). Stepping-Stone Detection Technique For Recognizing Legitimate And Attack Connections. *Proceedings of the 5th International Conference on Computing and Informatics*. 1(1), 440 - 446.
 35. Firdhous, M., Hassan, S., **Ghazali, O.**, and Mahmuddin, M., "Evaluating Cloud System Providers: Models, Methods and Applications" in "Cloud Systems in Supply Chains" Chapter 7, Dr. Fawzy Soliman, Ed. Australia: Palgrave Macmillan, 2014.
 36. Firdhous, M., **Ghazali, O.**, and Hassan, S., "Robust Multi-Dimensional Trust Computing Mechanism for Cloud Computing", *Jurnal Teknologi (Sciences & Engineering)* (Special Issue on Current and Emerging Trends in Technology, Science and Engineering Vol. 2), vol. 69, no. 2, July 2014, pp. 1-6. Scopus Indexed.

37. Firdhous, M., **Ghazali, O.**, and Hassan, S., "Statistically Controlled Robust Trust Computing Mechanism for Cloud Computing", *Journal of Information and Communication Technology (JICT)*, vol. 13, 2014, pp. 23-Scopus Indexed.
38. Firdhous, M., **Ghazali, O.**, and Hassan, S., "Fog Computing: Will it be the Future of Cloud Computing?" *Third International Conference on Informatics & Applications (ICIA2014)*, 8-10 October 2014, Kuala Terengganu, Malaysia, pp. 8-15.
39. Firdhous, M., **Ghazali, O.**, and Hassan, S., "A Mechanism for Distribution and Sharing of Trust Scores among Cooperating Cloud Computing Service Monitors", *2nd AFAP Conference on Current and Emerging Trends in Science and Engineering*, Surabaya, Indonesia 13 September 2014. Won the best paper award at the conference (To appear in *Jurnal Teknologi (Sciences & Engineering) (Special Issue on Current and Emerging Trends in Technology, Science and Engineering)*, 2015, Scopus Indexed).
40. Firdhous, M., **Ghazali, O.**, and Hassan, S., "Modeling of Quality of Service based Trust for Cloud Computing", *2nd AFAP Conference on Current and Emerging Trends in Science and Engineering*, Surabaya, Indonesia 13 September 2014. (To appear in *Jurnal Teknologi (Sciences & Engineering) (Special Issue on Current and Emerging Trends in Technology, Science and Engineering)*, 2015, Scopus Indexed).
41. Firdhous, M., Hassan, S., and **Ghazali, O.** "Statistically Enhanced Multi-Dimensional Trust Computing Mechanism for Cloud Computing", *Journal of Mobile Computing and Multimedia Communications (IJMCMC)*, vol. 05, no. 02, April-June, 2013, pp. 1 –Scopus Indexed and Published by the IGI Global, Hershey, PA, USA.
42. Firdhous, M., Hassan, S., and **Ghazali, O.**, "A Comprehensive Survey on Quality of Service Implementations in Cloud Computing", *International Journal of Scientific & Engineering Research (IJSER)*, vol. 04, no. 05, May, 2013, pp. 118 – 123.
43. Firdhous, M., **Ghazali, O.**, and Hassan, S., "Rural ICT Development, How Cloud Computing Can Play a Role?" *4th International Conferences on Rural ICT Development (RICTD2013)*, June 25 – 27, 2013 Malacca, Malaysia, pp. 153–159.
44. **Ghazali, O.**, Osman, B., Ahmad, A., Abas, A., Rahmat, A.R., and Firdhous, M., "Cloud Powered Rural Telecenters – A Model for Sustainable Telecenters" *4th International Conference on Rural ICT Development (RICTD2013)*, June 25 – 27, 2013, Malacca, Malaysia, pp. 136–142.
45. Firdhous, M., **Ghazali, O.**, and Hassan, S., "Cloud Computing for Rural ICT Development: Opportunities and Challenges" *International Conference on Computing, Electrical and Electronics Engineering (ICCEEE 2013)*, August 26–28, 2013, Khartoum, Sudan, pp. 680–685.
46. Nor Iadah Yusop, Huda Ibrahim, Shafiz Affendi Mohd Yusof, Zahurin Mat Aji, Zulkhairi Md. Dahalin, **Osman Ghazali**, Mohd Nizam Saad, Mohamad Amir Abu Seman, Azman Yasin, Mohd. Khairudin Kasiran, Rafidah Abd. Razak, "Information Needs of Rural Communities, " *The Journal of Community Informatics*, vol. 09, no. 02, May 2013.
47. Suhaidi Hassan, Naseer Ali Husieen and **Osman Ghazali**, "RM-DSR: A Reliable Multipath Routing Protocol with Fast Recovery Transient Failure in MANET", *International Journal of Mobile Computing and Multimedia Communications*, vol. 5, Issue. 2, April 2013, pp. 46 – 57, Impact Factor 0.87, Publisher Springer. Indexed by Scopus, ACM, and EI-Compendex, 2012.

48. Firdhous, M., Hassan, S., and **Ghazali, O.**, "Monitoring, Tracking and Quantification of Quality of Service in Cloud Computing" 3rd Global Conference for Academic Research on Scientific and Emerging Technologies (GCARSET), March 9–11, 2013, Kuala Lumpur, Malaysia, pp. 107-112.
49. Firdhous, M., Hassan, S., and **Ghazali, O.**, "Quality of Service in Cloud Computing – A Critical Review" 3rd Global Conference for Academic Research on Scientific and Emerging Technologies (GCARSET), March 9–11, 2013, Kuala Lumpur, Malaysia, pp. 113-118.
50. Naseer Ali Husieen, Suhaidi Hassan and **Osman Ghazali**, "The Robustness of RM-DSR Multipath Routing Protocol with Different Network Size in MANET", to appear in International Journal of Mobile Computing and Multimedia Communications (IJMCMC). Vol. 5, Issue. 2, pp. 57 – 68, 2013. Indexed by Scopus.
51. Mahmoud Al-shugran , **Osman Ghazali**, Suhaidi Hassan , Kashif Nisar, and A. Suki M. Arif, "A Qualitative Comparison Evaluation Of The Greedy Forwarding Strategies In Mobile Ad Hoc Network", Journal Of Network And Computer Applications, vol. 36, Issue. 2, March 2013, pp. 887-897, ISSN: 1084-8045.
52. Mohammad M. Rasheed, **Osman Ghazali**, Rahmat Budiarto, SYN Scanning Worm Detection, Trends in Applied Sciences Research, vol. 7, Issue. 10, 2012, pp. 859-871, eISSN: 2151-7908, pISSN: 1819-3579, Academic Journals Inc., USA.
53. Mohammad M. Rasheed, **Osman Ghazali**, Rahmat Budiarto, Fast Detection of Stealth and Slow Scanning Wormsin Transmission Control Protocol, Journal of Applied Sciences, ISSN: 1812-5654, 2012, 1-8.
54. Mahmoud Al-Shugran, **Osman Ghazali** and Suhaidi Hassan, "A General Framework for Greedy Routing in Mobile Ad-hoc Networks, " in the Proceeding of International Conference on Advanced Computer Science Applications and Technologies (ACSAT2012), Kuala Lumpur, Malaysia, 26-28 Nov. 2012.
55. Mahmoud Al-Shugran, **Osman Ghazali** and Suhaidi Hassan, "Performance Comparison of Position-Based Routing Protocol in the Context of Enhancing Greedy Failure, " in the Proceeding of International Conference on Advanced Computer Science Applications and Technologies (ACSAT2012), Kuala Lumpur, Malaysia, 26-28 Nov. 2012.
56. Mohammad M. Rasheed, **Osman Ghazali**, Rahmat Budiarto, Behavioral Analysis For Scanning Internet Worms, the 3rd International Conference on Engineering and ICT (ICEI2012), Melaka, Malaysia, 4 –5 April 2012, pp. 59-63.
57. Shahrudin Awang Nor, Suhaidi Hassan, **Osman Ghazali**, Mohammed M. Kadhum, and Mohd. Hasbullah Omar, Performance Enhancement of DCCP TCP-like over Long Delay Link Networks, in International Journal of Modeling and Optimization, vol.2, , no. 3, pg. 316-320, ISSN: 2010-3697, 2012.
58. Mohamed Firdhous, Suhaidi Hassan, **Osman Ghazali**, and Massudi Mahmuddin, "Bio Inspired Trust Management in Distributed Systems - A Critical Review", 2012 IEEE Conference on Open Systems (ICOS2012), October 21-24, Kuala Lumpur, Malaysia.
59. Mohamed Firdhous, Suhaidi Hassan and **Osman Ghazali**, "Hysteresis based Trust Computing Mechanism for Cloud Computing" IEEE TENCON 2012, November 19-22, Cebu, Philippines. Scopus-indexed.
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