

Johan bin Mohamad Sharif

Personal Information



- Nationality: Malaysian
- Date of Birth: 10 June 1974
- Department: Computer Science
- Faculty : Computing
- Research Group : Pervasive Computing Research Group (PCRG)

Education

2006 - 2012

Universiti Teknologi Malaysia

- PhD (Computer Science)

1998 - 2000

Universiti Teknologi Malaysia

- MSc (Computer Science)

1995 - 1997

Universiti Teknologi Malaysia

- Bachelor of Computer Science

1992 - 1995

Universiti Teknologi Malaysia

- Diploma in Computer Science

1990 – 1991

Sek. Men. Teknik Kuala Lumpur

- Sijil Pelajaran Malaysia

1987 – 1989

Sek. Men. Dato' Hamzah, Port Klang

- Sijil Rendah Pelajaran

1981 – 1986

Sek. Ren. Keb. Methodist, Port Klang

- Penilaian Darjah 5

Career History 2012 – present
Senior Lecturer, Universiti Teknologi Malaysia

2000 – 2011
Lecturer, Universiti Teknologi Malaysia

1997 – 2000
Tutor, Universiti Teknologi Malaysia

1997
Research Officer, Universiti Teknologi Malaysia

Research Interest

- Network
- Computer Security
- Embedded System
- Bioinformatics
- Visualisation
- Image Processing
- Coding Theory
- Machine Learning
- Network Intrusion Detection

Working Experience

Teaching

1. High Performance Parallel Computing
2. Programming Technique 1 – C++
3. Technology and Information System
4. CCNA 1 – 4
5. CCNA Security
6. Data Structure
7. Application Development
8. Network Programming
9. Operating System
10. Data Communication
11. Computer Architecture and Assembly Language
12. NetCentric Computing
13. System Software
14. Asas Pengaturcaraan C
15. Integrasi Sistem
16. Latihan Kemahiran 3 (Rangkaian)
17. Computer Networking
18. Assembly Language

Supervision

1. PhD – 7 students
2. Master – 3 student
3. Undergraduate – 53 students

Administration

1. Safety Pass CIDB Coordinator for FE 2020-2023
2. Web Editor for UTM FC Proceedings 2017
3. Reviewer of Innovation in Computing Technology and Applications 2018
4. Task Force First Year Experience (FYE) 2016
5. Ahli Task Force Penyediaan Laporan Tahunan 2016 Fakulti Komputeran
6. Ahli Jawatankuasa Kecil Pembangunan Mahasiswa dan Alumni Fakulti Komputeran 2017
7. Ahli Jawatankuasa Hubungan Luar – Latihan Praktik (Peringkat Universiti)
8. Ahli Jawatankuasa Pameran Konvokesyen ke-31 (Peringkat Universiti)
9. Ahli Jawatankuasa Sementara bagi Rangkaian Bangunan Baru
10. Administrator for email system (Faculty)
11. Administrator for COST system (Faculty)
 - a. Sistem Kedatangan
 - b. Sistem Cuti
 - c. Sistem Maklumat Staf

Research

A. Completed Projects

1. LD-LOVE : Lightweight Distributed Location Verification Technique for Location-based Services in Vehicular Communication RM 39400 (FRGS)
2. Simulator of Rehabilitation Process Using Artificial Hand Gripper With Smart Glove RM20,000 (Research University Grant)
3. An Automated Counting Application for Cell Disorders RM 40,000.00 (Research University Grant)
4. Efficient Vehicular Ad-Hoc Networks (VANET) Routing Protocols for High Mobility and Large Obstacles Environment RM 49,200.00 (FRGS)
5. Visualizing Orientation of Ion Dynamics in Bioinformatics Datasets RM 136,000.00 (MOSTI)

B. Consultancies

1. IT Consultant to Madunia Sri Berkat (JM-0420343-P)
2. IT Consultant to MHI Maju Enterprise
3. IT Consultant to Mezaaz Enterprise (JM 0316526-U, KK : 357-01018470)

C. Awards

1. Gold Medal in Penang International Invention, Innovation and Design (PIID 2019) : Low Pulse Electric Field Effect on Breast Cancer Cell Properties
2. Gold Medal at The 2nd International Indonesia – Malaysia – Thailand Symposium on Innovative and Creativity (iMIT SIC 2018) : Automated Human Cortical Bone Analyzer
3. Gold Medal at The 2nd International Indonesia – Malaysia – Thailand Symposium on Innovative and Creativity (iMIT SIC 2018) : Human Age at Death Estimation from Cortical Bone : An Automated System
4. Bronze Medal at International Eureka Innovation Exhibition (IEIE 2018) : Investigation of Electroporation Method and Plant Extract on Cervical Cancer
5. Gold Medal of UTeMEX 2013 : Biomechatronic Design of Artificial Hand Gripper System for Rehabilitation Monitoring
6. Overall winner of UTeMEX 2013 : Biomechatronic Design of Artificial Hand Gripper System for Rehabilitation Monitoring
7. Gold Medal of ITEX 2013 : Design of Biomechatronic Artificial Arm for Telemedicine Application
8. Silver Medal of Festival Penyelidikan dan Inovasi UTHM 2012 (fest2012) : An Automated Counting Application
9. Overall winner of Nuclear Malaysia Invention and Innovation 2011 : Development of Artificial Hand Gripper by using Microcontroller – Invitation Category
10. Gold Medal of Nuclear Malaysia Invention and Innovation 2011 : Development of Artificial Hand Gripper by Using Microcontroller

11. Silver Medal of Nuclear Malaysia Invention and Innovation 2011 : Design and Development of Arm Rehabilitation Monitoring Device
12. Bronze Medal of INATEX 2011 : Development of Hand Gripper Therapy by Using Microcontroller for Paralyse Patient – Biotechnology Category

Professional Services

A. Reviewer

1. ISBAST 14 (Technical Program Committee)
2. ESTEEM Academic Journal 2014
3. Infocomp Journal
4. Journal of Information, Information Technology and Organizations (JIITO)
5. International Journal of Integrated Engineering, UTHM

B. Editor

1. Editor Perunding [Ensiklopedia Sains dan Teknologi \(EST\)](#), Dewan Bahasa dan Pustaka & Universiti Teknologi Malaysia (UTM) 2000
2. International Journal of Integrated Engineering, UTHM
3. Conference ICoBE 2012

Publications

A. Journal Papers

1. Zhong, B., Sharif, J. B. M., Salam, S., Ran, C., Liang, Y., & Cheng, Z. (2023). Research on Optimization of Boundary Detection and Dangerous Area Warning Algorithms Based on Deep Learning in Campus Security System. *Journal of Information Systems Engineering and Management*, 8(4), 22898.
2. Ahmed, N., Ngadi, A. B., Sharif, J. M., Hussain, S., Uddin, M., Rathore, M. S., ... & Zuhra, F. T. (2022). Network threat detection using machine/deep learning in sdn-based platforms: a comprehensive analysis of state-of-the-art solutions, discussion, challenges, and future research direction. *Sensors*, 22(20), 7896.
3. ISMAEL, B. M., NGADI, A. B., & SHARIF, J. B. M.

(2021). INTERFERENCE AND LOAD BALANCING ROUTING METRICS USED IN WIRELESS MESH NETWORK: NEW TREND AND CHALLENGES. *Journal of Theoretical and Applied Information Technology*, 99(12).

4. Azizulkarim, A. H., Jamil, M. M. A., Adon, M. N., Ahmad, M. S., Sharif, J. M., Ngadi, M. A., & Ambar, R. (2018, June). Investigation on Suitability of Pulse Duration Parameter for HeLa Cells Line Proliferation Properties towards Anti-Cancer Application. In *Journal of Physics: Conference Series* (Vol. 1019, No. 1, p. 012082). IOP Publishing.
5. Ayub, Q., Ngadi, M. A., Rashid, S., Ahmedy, I., Sharif, J. M., & Zahid, M. S. M. (2017). Probabilistic and replication based locking routing protocol for delay tolerant network. *Wireless Personal Communications*, 97(2), 3239-3259.
6. Ayatollahitafti, V., Ngadi, M. A., bin Mohamad Sharif, J., & Abdullahi, M. (2016). An Efficient Next Hop Selection Algorithm for Multi-Hop Body Area Networks. *PloS one*, 11(1), e0146464.
7. Ayatollahitafti, Vahid, Md Asri Ngadi, and Johan Bin Mohamad Sharif. "Requirements and challenges in body sensor networks: A survey." *Journal of Theoretical and Applied Information Technology* 72.2 (2015).
8. Satria Mandala, J.M. Sharif, M.A. Ngadi, M. Soperi Mohd Zahid and Farhan Mohamed (2015). Investigating severity of blackhole attack and its variance in wireless mobile ad hoc networks. *Int. J. Embedded Systems*, Vol. 7, No. 3, Pg 295-305, ISSN 1741-1076
9. BENQDARA S, NGADI MA, SHARIF JM, ALI S, Sangeetha ST, Ravi S, RajaRam U, Rammohan SR, AWANG N, SHAHIBUDDIN S, KADIR W. ENSEMBLE OF CLUSTERING ALGORITHMS FOR ANOMALY INTRUSION DETECTION SYSTEM. *Journal of Theoretical and Applied Information Technology*. 2014 Dec 31;70(3)..
10. Ayatollahitafti, Vahid, Md Asri Ngadi, and Johan Bin Mohamad Sharif. "A Traffic Redirection Based Congestion Control Scheme in Body Area Networks." *Research Journal of Applied Sciences, Engineering and*

Technology 8.17 (2014): 1917-1922.

11. J.M. Sharif, M. Mahadi Abdul Jamil and Abdul Malik Mohd Ali (2014). Global and Local Colour Time Scales to Encode Timeline Events in Ion Trajectories for Glasses. International Journal of Integrated Engineering, UTHM. Vol. 6, No. 3, Pg 9-32, ISSN 2229-838x
12. J. M. Sharif and Ahmad Basri Zainal (2013). [Transformation of Spatial Structure of Ion Trajectories into Iconic Representation](#). International Journal of Integrated Engineering, UTHM. 3(5), 46-51 ISSN 2229-838X
13. Salim M. Zaki, M.A. Ngadi, Maznah Kamat, Shukor Abd Razak, J.M. Sharif (2012). A Location Based Prediction Service Protocol for VANET City Environment. International Journal of Innovative Computing, Information and Control. Vol. 8, No. 10(A). Pg 6811-6836 (ISI IF : 1.78) ISSN 1349-4198
14. J.M. Sharif, M.F. Miswan, and M.M. Abdul Jamil (2012). Image Enhancement for Red Blood Cell Segmentation. Journal of Engineering Technology, Vol. 2(1) : 36-40. ISSN 2231-8798
15. R.H. Khokhar, M.A. Ngadi, M.S. Latiff, J.M. Sharif and K.Z. Ghafoor (2011). Multi-criteria Receiver Self-Election Scheme for Optimal Packet Forwarding in Vehicular Ad hoc Networks. International Journal of Computers, Communications & Control (IJCCC). (ISI/Scopus Cited Publication)
16. R.H. Khokhar, M.A. Ngadi, M.S. Latiff, J.M. Sharif and K.Z. Ghafoor (2011). A Realistic Radio Propagation Model to handle Obstacles for Vehicle-to-X Communications. International Journal of Wireless Personal Communications.
17. M.F. Ngatniman, J.M. Sharif and M.A. Ngadi (2008). Comprehensive Study of Transmission Techniques for Reducing Packet Loss and Delay in Multimedia over IP. International Journal of Computer Science and Network Security (IJCSNS), Vol. 8, No. 3, (Scopus)
18. J. M. Sharif, M. A. Ngadi and M. S. A. Latiff (2008). Global Colour Scale For Timeline Events In Ion Dynamics. Jurnal Akademi Sains

19. J.M. Sharif, M.A. Ngadi, and M.S.A. Latiff (2007). Visual Study For Timeline And Collaborative Events Of Ion Trajectories In Glass Structure. Chiang Mai University Journal. ISSN : 1685-1994
20. J.M. Sharif, M.A. Ngadi, and M.S.A. Latiff (2007). ANALYSIS OF PARAMETER FOR LOCAL COLOUR SCALE IN ION TRAJECTORIES. International Journal of Computer Science and Security. Vol 1. Issue 2. ISSN : 1985-1533

B. Conference Proceedings

1. Ismael, B. M., Ngadi, A. B., & Sharif, J. B. M. (2021, October). An Optimized Weighted Node Ranking Scheme for Channel Assignment in Wireless Mesh Networks using the Genetic Algorithm. In 2021 International Conference on Data Science and Its Applications (ICoDSA) (pp. 79-84). IEEE.
2. Malijan, M. H., Sharif, J. M., Abdullah, A. H., & Jamil, M. M. (2020, July). An Enhanced Segmentation Technique for Smokers RBC Rouleaux Coin Stacking. In IOP Conference Series: Materials Science and Engineering (Vol. 884, No. 1, p. 012054). IOP Publishing.
3. Mamman, H. B., Jamil, M. M. A., Ibrahim, T. N. T., Abd Wahab, M. H., Sharif, J. M., Abd Rahman, N. A., ... & Javid, F. (2020, May). Studying the Influence of Electroporation on HT29 Cell Line Interaction with Fibronectin and Collagen Protein Micro-Patterned Surface. In Journal of Physics: Conference Series (Vol. 1529, No. 5, p. 052028). IOP Publishing.
4. F.D. Mohamad Fadzil, M. Mahadi Abdul Jamil, Johan Mohamad Sharif, Mohammed Laeeq Shaikh, Abdul Hanan Abdullah (2019). Improved, Intricate Grip Power Measurement System For Professional Athletes. 1st International Conference on Innovative & Advanced Engineering Research (ICIAER19). Pune, Mumbai, India, 18 - 19 October 2019. ISBN 9788193221389
5. Ismail, S. A., Ngadi, M., Sharif, J. M., & Kama, M. N. (2017). Authentication Mechanisms in a Control Grid Computing Environment Using Identity Based Identification (IBI). *Advanced Science Letters*, 23(6), 5506-5510.

6. Ambar, R., Yusof, Y., Jamil, M. M. A., Sharif, J. M., & Ngadi, M. A. (2017, May). Design of accelerometer based wrist rehabilitation device. In *2017 6th ICT International Student Project Conference (ICT-ISPC)* (pp. 1-4). IEEE.
7. Ngatman, Mohd Farhan, Johan Mohd Sharif, and Md Asri Ngadi. "A study on modified PSO algorithm in cloud computing." *2017 6th ICT International Student Project Conference (ICT-ISPC)*. IEEE, 2017.
8. S.A. Ismail, M.A. Ngadi, J.M. Sharif, M.N. Kama and H. Sarkan (2015). RSA AUTHENTICATION MECHANISMS IN CONTROL GRID COMPUTING ENVIRONMENT USING GRIDSIM TOOLKIT. PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMPUTING & INFORMATICS. Pg 432-439. ISSN 2289-3784.
9. Ismail, S. A., Ngadi, M. A., Sharif, J. M., Kama, N., & Yusop, O. M. (2015). HMAC Authentication Mechanisms in a Grid Computing Environment Using Gridsim Toolkit. In H. Fujita & G. Guizzi (Eds.), *Intelligent Software Methodologies, Tools and Techniques: 14th International Conference, SoMet 2015, Naples, Italy, September 15-17, 2015*. Proceedings (pp. 442-452). Cham: Springer International Publishing.
10. J.M. Sharif, M.F. Miswan, M.A. Ngadi, M.S.H. Salam, M. Mahadi bin Abdul Jamil (2012). Red Blood Cell Segmentation Using Masking and Watershed Algorithm : A Preliminary Study. *International Conference on Biomedical Engineering (ICoBE)*. 27-28 Feb 2012, Penang, Malaysia (IEEE).
11. Salim M. Zaki, M.A. Ngadi, Maznah Kamat, Shukor Abd Razak and J.M. Sharif (2011). Multi Servers Location Service Management for VANET. *CET 2011, China*. Vol. 4 pp. 931-936.
12. M.F. Miswan, J.M. Sharif, M.A. Ngadi, D. Mohamad and M.M. Abdul Jamil (2011). An Overview : Segmentation Methods for Blood Cells Disorders. *IFMBE Proceedings. 5th Kuala Lumpur International Conference on Biomedical Engineering 2011 (BioMed 2011)*. Kuala Lumpur. Vol. 35. Pp. 596-599 (Springer)
13. J.M. Sharif, M.S.A. Latiff, M.A. Ngadi and M. Mahadi

Abdul Jamil. 3D SCIENTIFIC DATA MINING IN ION TRAJECTORIES. The 3rd International Conference on Knowledge Discovery and Data Mining (WKDD 2010). 9-10 January 2010, Phuket, Thailand. (IEEE)

14. J. M. Sharif, M.S. A. Latiff, M. A. Ngadi, A. B. A. Hamid, M. S. S. Omar and M. M. A. Jamil (2008). SPATIO-TEMPORAL APPLICATION FOR COLLABORATIVE ISSUES IN BIOINFORMATICS DATASET. International Conference on Computer Science and Software Engineering (CSSE2008). 12-14 Dec 2008
15. J. M. Sharif, M. A. Ngadi, M. S. A. Latiff, M. S. S. Omar, A. B. A. Hamid and M. M. A. Jamil (2008). COLOUR NUMBER CODING SCHEME FOR HUMAN BLOOD CELL. 4TH Kuala Lumpur International Conference on Biomedical Engineering (BioMed2008). 25 – 28 June 2008
16. J. M. Sharif, M. Yasrif Ananda, M. A. Ngadi, Dzulkifli Mohamad and M. M. A. Jamil (2008). A REVIEW OF HUMAN BLOOD CELLS VISUALISATION. Regional Student Conference on Research and Development (SCORED 2008), UTM Skudai. 26-27 Nov 2008
17. J. M. Sharif, M. Yasrif Ananda, M. A. Ngadi, Dzulkifli Mohamad and M. M. A. Jamil (2008). A SIMILARITY OF SOBEL AND PREWITT EDGE DETECTION FOR CELL COUNTING SIMULATION OF HUMAN BLOOD CELLS USING MATLAB. International Graduate Conference on Engineering and Science 2008 (IGCES 2008), UTM Skudai. 23-24 Dec 2008
18. J. M. Sharif, M. Yasrif Ananda, M. A. Ngadi, Dzulkifli Mohamad and M. M. A. Jamil (2008). THREE DIMENSIONAL VISUALISATION OF HUMAN BLOOD CELLS USING DIC 2D IMAGE. International Graduate Conference on Engineering and Science 2008 (IGCES 2008), UTM Skudai. 23-24 Dec 2008
19. J. M. Sharif, M. Yasrif Ananda, M. A. Ngadi, Dzulkifli Mohamad and M. M. A. Jamil (2008). A REVIEW A WHITE BLOOD CELL SEGMENTATION AND CLASIFICATION. The 3rd International Conference on "Postgraduate Education: Multidisciplinary Perspectives" (ICPE3), USM Penang. 16-17 Dec 2008
20. J. M. Sharif, A. B. A. Hamid (2007). MEASURING THE PERFORMANCE IN SUPPLY IN CHAIN : A CASE STUDY IN PUBLIC HOSPITAL LABORATORY IN

JOHOR. TIRMDCM 2007, 1 – 3 Nov 2007, Vol 1, Pg 267-75. (ISI)

21. J. M. Sharif, M. S. S. Omar and Z. A. Hussein (2008). UNRAVELLING PRION DISEASES USING MOLECULAR DYNAMICS SIMULATIONS. Asian Modeling Symposium (AMS2008). 13-15 May 2008
22. J.M. Sharif, M.A. Ngadi, and M.S.A. Latiff (2007). VISUALISATION OF COLLABORATIVE ION TRAJECTORIES ON GRID TECHNOLOGIES. Postgraduate Annual Research Seminar (PARS2007). 3-4 July
23. J.M. Sharif, M.A. Ngadi, and M.S.A. Latiff, (2007). STREAMLINES AS COLLABORATIVE TOOL FOR TIME SERIES EVENTS IN TIME-VARYING GLASSY ION DYNAMICS VISUALISATION. International Conference on Engineering & ICT (ICEI 2007). 26 & 28 Nov.
24. J.M. Sharif, M.A. Ngadi, and M.S.A. Latiff (2006). DEVELOPMENT OF A NOVEL METHOD FOR 3D SCIENTIFIC DATASETS IN ION DYNAMICS. 14th Multi-disciplinary Conference in Europe. Salford University, UK.
25. J.M. Sharif, M.A. Ngadi, and M.S.A. Latiff (2006). HYBRID SCHEME FOR GLASSY ION DYNAMICS. MMU International Symposium on Information and Communication Technologies (MUSIC2006). PJ Hilton, Selangor.
26. J.M. Sharif, M.A. Ngadi, and M.S.A. Latiff (2006). COLOUR NUMBER CODING SCHEME FOR TIME-VARYING VISUALISATION IN GLASSY ION TRAJECTORIES. MMU International Symposium on Information and Communication Technologies (MUSIC2006). PJ Hilton, Selangor.
27. J.M. Sharif, M.S.S.Omar, M.A. Ngadi, and M.S.A. Latiff (2006). VISUALIZING COLLABORATIVE TIME-VARYING SCIENTIFIC DATASETS. Kuala Lumpur International Conference on Biomedical Engineering (BIOMED2006). IFMBE Proceedings Vol 15, pg 602-606.
28. J.M. Sharif, M.A. Ngadi and M.S.A. Latiff (2003). The Efficiency of Web-Multicasting for Shared Whiteboard. In Proceeding of the IADIS International Conference

WWW/Internet 2003, Algarve, Portugal, 5-8 November 2003

29. M. Sharif, J. and Maarof, M. A. (2000). **COST : Collaborative Office System**. Malaysian Science and Technology Congress 2000 (MSTC 2000), Symposium C, Genting Highlands, Malaysia, 7 - 9 November 2000

C. Book and Book Chapters

1. Salim M. Zaki, M. A. Ngadi Shukor Abdul Razak, Maznah Kamat and J.M. Sharif (2012). Location Service Ad Hoc Network Urban Environment . Advances in Computer Science and Information Technology, Computer Science and Engineering. Vol. 85 : 563-574. ISSN 978-3-642-27307-0
2. J.M. Sharif, M.S.A. Latiff, M.S.S. Omar, A.B.A. Hamid, M.M.A. Jamil and M.A. Ngadi (2008). Colour Number Coding Scheme for Human Blood Cell. IFMBE Proceedings. Vol. 21, pp. 532-535, Springer Berlin Heidelberg, ISBN : 978-3-540-69139-6.
3. J.M. Sharif, M.S. Shamsir, M.S.A. Latiff and M.A. Ngadi (2006). Vizualizing Collaborative Time-Varying Scientific Datasets. IFMBE Proceedings, Springer Berlin Heidelberg ISSN 978-3-540-68017-8. Vol. 15 pp 602-606. ISSN 0140-0118.

Voluntary Experience

2006-current

Member of Badan Khairat, Masjid Kg Melayu Kangkar Pulai

2006-current

AJK Biro Dakwah, Masjid Kg Melayu, Kangkar Pulai

1999 - 2003

AJK Biro Dakwah, Surau Al-Falah, Jalan Kemuliaan/Kejayaan, Tmn Universiti

1997 – 1999

AJK Biro Dakwah, Masjid Al-Hidayah, Jalan Pertanian, Tmn Universiti

Computer

Operating System

Knowledge

- LINUX – RedHat, Slackware, Corel Linux
- Solaris and SunOS
- Microsoft Windows 95, 98, 2000
- Microsoft Windows NT 4.0 Server & Workstation
- Lotus Domino 4.6.7, R5 and R6

Programming Languages

- Java
- Lotus Notes
- Pascal
- C, C++
- Assembly Language IBM 360 and 8086
- Visual Basic 6.0
- ASP.NET and VB.NET
- GLUT (Graphic Library)
- OpenGL

Server Administrator

- Mail Server – Domino Mail Server
- Web Server – Internet Information Server, Windows NT4.0
- DNS Server

Database

- Microsoft SQL Server

Network Simulation Application

- NetCracker Professional

Internet Application

- All Kind of Browser (e.g. Netscape Navigator, Internet Explorer)
- All Pop3 E-mail Client (e.g. Internet Mail, Eudora, Pegasus)
- Microsoft FrontPage
- IRC & BBS
- Latex
- EndNote

References

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