DR. JOHAN BIN MOHAMAD SHARIF

SENIOR LECTURER – SCHOOL OF COMPUTING

N28A, School of Computing, Universiti Teknologi Malaysia
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PERSONAL INFORMATION

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

EDUCATION

Universiti Teknologi Malaysia — Johor, Malaysia
PhD (Computer Science) — *2006 – 2012*

Universiti Teknologi Malaysia — Johor, Malaysia
MSc (Computer Science) — *1998 – 2000*

Universiti Teknologi Malaysia — Johor, Malaysia
Bachelor of Computer Science — *1995 – 1997*

Universiti Teknologi Malaysia — Johor, Malaysia
Diploma in Computer Science — *1992 – 1995*

Sek. Men. Teknik Kuala Lumpur — *1990 – 1991*
Sijil Pelajaran Malaysia

Sek. Men. Dato' Hamzah, Port Klang — *1987 – 1989*
Sijil Rendah Pelajaran

Sek. Ren. Keb. Methodist, Port Klang — *1981 – 1986*
Penilaian Darjah 5

CAREER HISTORY

Senior Lecturer, Universiti Teknologi Malaysia — *2012 – Present*
Lecturer, Universiti Teknologi Malaysia — *2000 – 2011*
Tutor, Universiti Teknologi Malaysia — *1997 – 2000*
Research Officer, Universiti Teknologi Malaysia — *1997*

RESEARCH INTERESTS

Computer Network Security, Embedded Systems, Bioinformatics, Visualisation, Image Processing, Coding Theory, Machine Learning, Network Intrusion Detection.

WORKING & TEACHING EXPERIENCE

Teaching Experience:

- High Performance Parallel Computing, Programming Technique 1-C++, Technology and Information System
- CCNA 1–4, CCNA Security, Data Structure, Application Development, Network Programming, Operating System
- Data Communication, Computer Architecture and Assembly Language, NetCentric Computing, System Software
- Asas Pengaturcaraan C, Integrasi Sistem, Latihan Kemahiran 3 (Rangkaian), Computer Networking, Assembly Language

Supervision Summary:

- **PhD:** 7 students – **Master:** 3 students – **Undergraduate:** 53 students

ADMINISTRATION

1. Editorial Board Membership - International Journal of Computer Science, Algorithms and Programming Languages, 17 Mar 2025
2. MEMBER OF THE PROGRAM COMMITTEE OF THE FACULTY OF COMPUTING RESEARCH & INNOVATION DAY 2025 (FCRI DAY 2025)
3. Evaluator in the 17th PARS (Postgraduate Annual Research Seminars) 2025 held on 24 & 25 June 2025
4. Artificial Intelligence Hackathon Competition Committee for FC Research & Innovation Day 2024 held on 27th June 2024
5. Editorial Board Member - Computing Proceedings (Innovations in Computing Technology and Applications) (1 Oct 2024 - 31 Dec 2026)
6. Safety Pass CIDB Coordinator for FE (2020–2023)
7. Web Editor for UTM FC Proceedings (2017)
8. Reviewer of Innovation in Computing Technology and Applications (2018)
9. Task Force First Year Experience (FYE) (2016)
10. Ahli Task Force Penyediaan Laporan Tahunan Fakulti Komputeran (2016)
11. Ahli Jawatankuasa Kecil Pembangunan Mahasiswa dan Alumni Fakulti Komputeran (2017)
12. Ahli Jawatankuasa Hubungan Luar Latihan Praktik (Peringkat Universiti)
13. Ahli Jawatankuasa Pameran Konvokesyen ke-31 (Peringkat Universiti)
14. Ahli Jawatankuasa Sementara bagi Rangkaian Bangunan Baru
15. Administrator for email system (Faculty)
16. Administrator for COST system (Faculty): Sistem Kedatangan, Sistem Cuti, Sistem Maklumat Staf

RESEARCH GRANTS, CONSULTANCIES & AWARDS

Completed Research Projects:

1. **LD-LOVE:** Lightweight Distributed Location Verification Technique for Location-based Services in Vehicular Communication (RM 39,400, FRGS)
2. Simulator of Rehabilitation Process Using Artificial Hand Gripper With Smart Glove (RM 20,000, Research University Grant)
3. An Automated Counting Application for Cell Disorders (RM 40,000, Research University Grant)
4. Efficient Vehicular Ad-Hoc Networks (VANET) Routing Protocols for High Mobility and Large Obstacles Environment (RM 49,200, FRGS)
5. Visualizing Orientation of Ion Dynamics in Bioinformatics Datasets (RM 136,000, MOSTI)

Consultancies:

- IT Consultant to Madunia Sri Berkat (JM-0420343-P)
- IT Consultant to MHI Maju Enterprise
- IT Consultant to Mezaaz Enterprise (JM 0316526-U)

Invention, Innovation & Design Awards:

1. **9th place** out of 64 participating instructors in the Cisco Networking Academy APJC Cybersecurity & AI Learn-A-Thon June 2026.
2. **4th place** for Instructors in the Cisco Networking Academy 2025 Malaysia Learn-A-Thon.
3. **8th place** for Instructors in the Cisco Networking Academy 2025 ASEAN Cyber Race Learn-A-Thon
4. **Gold Medal** – Penang International Invention, Innovation and Design (PIID 2019): Low Pulse Electric Field Effect on Breast Cancer Cell Properties
5. **Gold Medal** – 2nd International IMIT SIC 2018: Automated Human Cortical Bone Analyzer
6. **Gold Medal** – 2nd International IMIT SIC 2018: Human Age at Death Estimation from Cortical Bone: An Automated System
7. **Bronze Medal** – International Eureka Innovation Exhibition (IEIE 2018): Investigation of Electroporation Method and Plant Extract on Cervical Cancer
8. **Gold Medal & Overall Winner** – UTeMEX 2013: Biomechatronic Design of Artificial Hand Gripper System for Rehabilitation Monitoring
9. **Gold Medal** – ITEX 2013: Design of Biomechatronic Artificial Arm for Telemedicine Application
10. **Silver Medal** – Festival Penyelidikan dan Inovasi UTHM 2012: An Automated Counting Application
11. **Gold Medal, Silver Medal & Overall Winner** – Nuclear Malaysia Invention and Innovation 2011 (Artificial Hand Gripper & Rehabilitation Devices)
12. **Bronze Medal** – INATEX 2011: Development of Hand Gripper Therapy by Using Microcontroller for Paralyse Patient

PROFESSIONAL SERVICES

Judge : Kembara Scratch Wira Alam, 25 Julai 2026, SK Sri Skudai, Johor Bahru, Malaysia.

Judge & Mentor : Pertandingan Kembara Scratch Merdeka 2025, 27 Ogos 2025, SK Sri Skudai, Johor Bahru, Malaysia.

Reviewer : *Development of Threats and Vulnerability Assessment Model for Electric Vehicles (EVs) Transportation Internet of Things (T-IoT)*, International Journal of Innovative Computing, ISSN : 2180-4370, 2025.

Reviewer : *AI-Generated Speech Detection Using Convolutional Neural Network*, International Journal of Computer Science, Algorithms and Programming Languages, 1(1), 2025.

Reviewer : *DMOS: Decision-Making-based Offloading Algorithm in Vehicular Networks*, The Journal of Supercomputing, 2025.

Reviewer: ISBAST 14 (Technical Program Committee), ESTEEM Academic Journal (2014), Infocomp Journal, Journal of Information, Information Technology and Organizations (JIITO), International Journal of Integrated Engineering (UTHM).

Editor: Editor Perunding Ensiklopedia Sains dan Teknologi (EST) (Dewan Bahasa dan Pustaka & UTM, 2000), International Journal of Integrated Engineering (UTHM), Conference ICOBE 2012.

PUBLICATIONS (SELECTED)

Journal Papers:

1. Yinhao, Z., & Sharif, J. M. (2026). LoRAD: Logic-Reasoning Augmented DeBERTa with Adversarial Training for Robust Rumor Detection. Electronics, 15(5), 1021. https://doi.org/10.3390/electronics15051021
2. Shengrong, G., & Sharif, J. M. (2025). Real-Time Temperature Prediction Model for Online Continuous Casting Control Using Simplified Boundary Condition Computing Method. Processes, 13(2), 305.
3. Abraham, O. L., Ngadi, M. A., Sharif, J. B. M., & Sidik, M. K. M. (2025). Multi-objective optimization techniques in cloud task scheduling: A systematic literature review. IEEE Access.
4. Ismael, B. M., Ngadi, M. A., Sharif, J. B. M., & Taha, M. S. (2025). Multi-Agent Reinforcement Learning for User-Router Assignment in Multi-Radio Multi-Channel Wireless Mesh Networks. International Journal of Intelligent Engineering & Systems, 18(8).

Conference Proceedings:

1. Zhong, B., Ismail Fauzi, I., Faisal, A.A., Mohd Kufaisal, M. S., Farkhana, M., and Johan, M. S. (2026). Improve Accuracy and Response Time in Real-time Facemask Detection System. 11th International Graduate Conference of Engineering, Science and Humanity (IGCESH 2026), 26 - 27 August, 2026. Fraser Place Puteri Harbour, Iskandar Puteri, Johor, Malaysia.

2. Olanrewaju Lawrence. Abraham, Md Asri Bin Ngadi, Johan Bin Mohamad Sharif, and Mohd Kufaisal Mohd Sidik (2025). A Dwarf Mongoose Optimization Algorithm for Handling Task Scheduling Challenges in Cloud Environments. 17TH POSTGRADUATE ANNUAL RESEARCH SEMINAR (PARS2025).
3. Suhassni Ganeson, Muhammad Mahadi bin Abdul Jamil, Adila A.Hamid, Mohd Kufaisal Mohd Sidik, Johan Mohamad Sharif and Farkhana Muchtar (2025). ASSESSING THE IMPACT OF ELECTROPORATION ON THE VIABILITY OF HUMAN DERMAL FIBROBLAST CELL. 2nd INTERNATIONAL CONFERENCE ON INNOVATIONS IN ENGINEERING, SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT (ICEST 2025). Oct 1-2, 2025, The Maldives National University (MNU).
4. Baitong Zhong, Johan Bin Mohamad Sharif and Sah Salam (2025). RESEARCH ON FACE WEARING MASK DETECTION ALGORITHM BASED ON IMPROVED YOLOV5. 17TH POSTGRADUATE ANNUAL RESEARCH SEMINAR (PARS2025).
5. Mohammed Laeeq Shaikh, Guo Shengrong, Zhang Yinhao, Zhong Baitong,Mohd KuFaisal Mohd Sidik, Farkhana Muchtar and Johan Mohamad Sharif (2025). SURVEY OF VEHICLE PLATOONING CONCEPTS, TECHNIQUES, PROTOCOLS AND ALGORITHMS. 17TH POSTGRADUATE ANNUAL RESEARCH SEMINAR (PARS2025).

VOLUNTARY EXPERIENCE & SKILLS

Voluntary Community Service:

- Member & AJK Biro Dakwah, Masjid Kg Melayu Kangkar Pulai (2006–Present)
- AJK Biro Dakwah, Surau Al-Falah, Tmn Universiti (1999–2003)
- AJK Biro Dakwah, Masjid Al-Hidayah, Tmn Universiti (1997–1999)

Computer Technical Knowledge:

- **Operating Systems:** LINUX (RedHat, Slackware, Corel), Solaris, SunOS, Windows Server, Lotus Domino
- **Programming Languages:** Java, C/C++, Assembly (IBM 360/8086), Visual Basic, ASP.NET/VB.NET, GLUT/OpenGL, Pascal
- **Administration & Databases:** Domino Mail Server, IIS Server, DNS Server, Microsoft SQL Server
- **Tools & Simulators:** NetCracker Professional, LaTeX, EndNote, MATLAB

REFERENCES

Prof. Dr. Kamalrul Nizam bin Abu Bakar
Faculty of Computing, Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia
Tel: +607-553 2000 – Email: knizam@utm.my

Assoc. Prof. Dr. Ismail Fauzi bin Isnin
Director, Faculty of Computing, Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia
Tel: +607-553 2000 – Email: ismailfauzi@utm.my