

# TCCE-2025

## International Conference ON TRENDS IN COMPUTATIONAL AND COGNITIVE ENGINEERING

**12 - 13 Nov 2025**

*Main Campus,  
 Faculty of Electronics and Computer Technology and Engineering,  
 Universiti Teknikal Malaysia Melaka*

In Collaboration with





<https://tcce2025.utm.edu.my>

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## ABOUT THE CONFERENCE

The **International Conference on Trends in Computational and Cognitive Engineering (TCCE-2025)**, themed “*Connecting Ideas, Computing Futures*,” will be held on **12–13 November 2025** at **Universiti Teknikal Malaysia Melaka (UTeM), Malaysia**. This prestigious interdisciplinary event aims to advance the synergy between Cognitive Science and Computational Engineering, fostering collaboration, innovation, and knowledge exchange among researchers, academics, industry professionals, and educators worldwide.

Hosted by **UTeM** in collaboration with the **International Institute of Invincible Rhythms (IIOIR), Shimla, India**, and the **Amity Cognitive Computing and Brain Informatics Centre, Amity University Rajasthan, Jaipur, India**, TCCE-2025 serves as a vibrant platform for sharing research insights, exploring emerging trends, and addressing real-world challenges. The conference bridges theory and practice, empowering interdisciplinary teams to drive progress in intelligent systems, data-driven technologies, and human-machine integration.

With a strong focus on **Cognitive Science**, the study of human cognition and its applications in AI and intelligent systems, and **Computational Engineering**, which leverages modeling, simulation, and analytics to solve complex engineering problems; TCCE-2025 invites participants to connect ideas and compute the future together.

***We look forward to welcoming you to Melaka, Malaysia, for an inspiring and intellectually engaging conference experience.***

## Welcome Remarks by the **DEAN**



Bismillahirrahmanirrahim,

Assalamualaikum Warahmatullahi Wabarakatuh  
and Salam Sejahtera.

It is my great pleasure to welcome all delegates to the International Conference on Trends in Computational and Cognitive Engineering (TCCE-2025). We are truly honoured to host this conference at Universiti Teknikal Malaysia Melaka (UTeM), in collaboration with the International Institute of Invincible Rhythms (IIOIR), Shimla, India, and the Amity Cognitive Computing and Brain Informatics Centre, Amity University Rajasthan, Jaipur, India. This conference serves as an inspiring platform where researchers, scholars, and practitioners from around the world come together to share ideas, present discoveries, and discuss new directions in computational and cognitive engineering.

As we gather on 12 – 13 November 2025, I hope TCCE-2025 will not only promote meaningful academic discussions but also spark long term collaborations that advance technology and human understanding. My sincere appreciation goes to the organizing committee for their dedication and to all participants for contributing their expertise and enthusiasm. I wish everyone a productive, engaging, and memorable conference experience.

Thank you everyone and enjoy the conference!

**ASSOCIATE PROFESSOR TS. DR. ROSTAM AFFENDI BIN HAMZAH**  
**Dean**

Faculty of Electronics and Computer Technology and Engineering  
Universiti Teknikal Malaysia Melaka

# CHAIRMAN'S

## Welcome Note

Assalamualaikum Warahmatullahi Wabarakatuh and Salam Sejahtera,

It is my great pleasure to welcome you to the International Conference on Trends in Computational and Cognitive Engineering (TCCE-2025), hosted by Universiti Teknikal Malaysia Melaka (UTeM) in collaboration with the International Institute of Invincible Rhythms (IIOIR), Shimla, India, and the Amity Cognitive Computing and Brain Informatics Centre, Amity University Rajasthan, Jaipur, India. With the theme "*Connecting Ideas, Computing Futures*," this conference brings together researchers, academicians, and industry professionals to share insights and innovations at the intersection of Cognitive Science and Computational Engineering.

TCCE-2025 serves as a vibrant platform for fostering collaboration, exchanging ideas, and addressing real-world challenges that arise from the integration of human cognition with computational systems. As technology advances rapidly, the synergy between these domains becomes increasingly vital in driving intelligent and adaptive solutions for the future.

On behalf of the organizing committee, I would like to thank all speakers, authors, reviewers, and participants for their valuable contributions. We hope this conference will inspire new perspectives, meaningful collaborations, and impactful research outcomes. Welcome to Melaka, and I wish you a productive and memorable TCCE-2025 experience.

### General Chair

International Conference on Trends in Computational and Cognitive Engineering (TCCE-2025)

## KEYNOTE SPEAKER 1



### PROF. DR. MOHAMMAD SHAHADAT HOSSAIN

Professor,  
Computer Science & Engineering,  
University of Chittagong, Bangladesh.



12 November 2025

9:30 - 9:45 am

*Seminar Hall*

### The Evolution of Explainable Artificial Intelligence

#### ABSTRACT

Artificial Intelligence (AI) has become deeply embedded in our daily lives—powering systems that predict diseases, interpret images, understand language, and even decide who gets a loan. Yet, despite its remarkable accuracy, much of AI remains a black box—delivering decisions without revealing the reasoning behind them. This opacity limits human trust and raises critical concerns about safety, accountability, and ethics.

Explainable Artificial Intelligence (XAI) has emerged as a powerful response to this challenge, aiming to make AI systems more transparent, trustworthy, and understandable. In this keynote, I will trace the evolution of XAI—from its conceptual foundations to the latest research frontiers—highlighting how the field strives to balance the trade-off between accuracy and interpretability. I will also present an XAI model and showcase its practical applications across diverse domains, demonstrating how explainability is shaping the next generation of intelligent, human-centered systems.

**Biography** - Professor Dr. Mohammad Shahadat Hossain has been serving as the Professor of Computer Science and Engineering at the University of Chittagong, Bangladesh, since 2007. With over 30 years of academic and research experience, he earned his MPhil (1999) and PhD (2002) in Computation from the University of Manchester Institute of Science and Technology (UMIST), UK. He has received prestigious fellowships including the Fulbright (USA, 2023), Commonwealth (UK, 2009), Tyndall (UK, 2006), and Erasmus Mundus (Denmark, 2011, 2013). Professor Hossain is recognized in the 2022–2025 editions of the World's Top 2% Scientists by Stanford University and ranks among the top global researchers in Expert Systems and Artificial Intelligence. He leads international projects funded by the Swedish Research Council, Kempe Foundation, and Cybercampus Sweden. A prolific scholar, he has published nearly 300 papers and is a Senior Member of IEEE and a Member of the British Computer Society.

## KEYNOTE SPEAKER 2



### PROF. DR. M. SHAMIM KAISER

Professor,  
Institute of Information Technology  
Jahangirnagar University, Bangladesh.

12 November 2025

9:45 - 10:00 am

*Seminar Hall*



### Artificial Intelligence in Healthcare: Key Challenges, Solutions, and Future Prospects

#### ABSTRACT

With the adoption of artificial intelligence (AI), the healthcare landscape is transforming rapidly by enabling data-driven decision-making, early detection, personalized intervention, and efficient management of diseases. Despite its immense potential, the integration of AI into healthcare practice presents several critical challenges. These include issues of data quality, interoperability, bias, transparency, privacy, regulatory compliance, and the ethical use of patient information. Moreover, the lack of clinician involvement in algorithm development and validation often limits clinical acceptance and reliability. The talk highlights the key challenges facing AI adoption in healthcare, analyzes current and emerging solutions—such as explainable AI, federated learning, robust data governance, and clinician-in-the-loop systems—and highlights the future prospects of intelligent, equitable, and sustainable healthcare ecosystems. By aligning technological innovation with ethical, clinical, and policy frameworks, AI can serve as a catalyst for improving patient outcomes, optimizing resource allocation, and shaping the next generation of precision medicine.

**Biography** - Dr. M. Shamim Kaiser is a Professor at the Institute of Information Technology, Jahangirnagar University, Bangladesh. He obtained his Ph.D. in Telecommunication Engineering from the Asian Institute of Technology (AIT), Thailand, and previously held postdoctoral positions at Anglia Ruskin University and the University of Cambridge, UK. With over 350 publications, he leads the Advanced Intelligence, Informatics and Smart Transformation (AI2ST) Research Group, focusing on AI, machine learning, big data, cybersecurity, and smart healthcare. A Senior Member of IEEE and IEICE, he has been ranked among the world's top 2% scientists by Stanford University and recognized as Bangladesh's Best Computer Scientist by Research.com. Dr. Kaiser also serves as Associate Editor of IEEE Access and Academic Editor of PLOS ONE.

## KEYNOTE SPEAKER 3

### PROF. DR. KANAD RAY

Director,  
Amity Cognitive Computing and Brain Informatics Center  
Amity University, Jaipur, India

13 November 2025

11:30 - 11:45 am

Seminar Hall



### Will Superintelligent Machines Erase What It Means to Be Human?

#### ABSTRACT

In an era of superintelligent machines, this study integrates physics, computer science, and electronics to redefine human identity. From physics, humans are complex systems resisting disorder via quantum mechanics and thermodynamics, with consciousness arising from unpredictable neural processes unlike silicon machines' efficient computations. Superintelligent AI, constrained by Landauer's principle on energy for information erasure, prompts questions about human uniqueness in inefficient adaptability versus machines' potential quantum leaps. Computer science views humans beyond algorithms, excelling in ill-defined problems, creativity, and moral decisions, while AI's self-improving pattern recognition challenges human essence in experiences and social contexts. Electronics and communication engineering examines enabling technologies like circuits, brain-computer interfaces, and wireless networks that integrate biological and artificial systems. This integration raises concerns about human obsolescence amid deepening technological fusion. Ultimately, humanity persists through ties to uncertainty, ethics, and relationships, not superiority over advancing machines.

**Biography** - Dr. Kanad Ray is the Director of the Amity Cognitive Computing and Brain Informatics Centre and Professor of Physics and Electronics & Communication at the Amity School of Applied Sciences, Amity University Rajasthan (AUR), Jaipur, India. He holds an M.Sc. and Ph.D. in Physics from Calcutta University and Jadavpur University, respectively. With over 27 years of academic experience, he has published extensively and guided 10 Ph.D. scholars in interdisciplinary research. His interests span cognition, communication, electromagnetics, microwaves, and computational biology. A senior IEEE member, Dr. Ray has fostered global collaborations, including with the University of Montreal, Universiti Teknologi Malaysia, and the National Institute for Materials Science, Japan, and serves as General Chair of international conferences such as TCCE and TEHI.

## SPECIAL SESSION



### PROF. DR. VIJAY SINGH RATHORE

Chairman,  
Shree Kkarni Universe College, India.



12 November 2025  
10:00 - 10:15 am  
*Seminar Hall*

### Best Practices of Research – Ethics

#### ABSTRACT

Ethical conduct in research is the cornerstone of academic integrity and scientific progress. This presentation on “Best Practices of Research – Ethics” highlights the fundamental principles, values, and responsibilities that guide researchers in maintaining honesty, transparency, and accountability in all stages of research. It discusses the importance of adhering to moral standards in data collection, analysis, authorship, publication, and collaboration to ensure credibility and societal trust. The talk further emphasizes the prevention of research misconduct such as fabrication, falsification, and plagiarism, while also addressing issues related to peer review, conflict of interest, and intellectual property. By fostering openness, respect for colleagues, and responsible supervision, these ethical practices not only enhance research quality but also contribute to the global advancement of knowledge. The session concludes by encouraging scholars to take pride in research integrity and to uphold ethical values as an integral part of their professional identity.

**Biography** - Prof. (Dr.) Vijay Singh Rathore serves as the Dean of Computer Applications and International Relations at Apex University, Jaipur. He is also the CEO of KK Consultancy and Chairman of Shree Kkarni Universe College. With over 20 years of academic and industry experience, he has contributed extensively to the fields of computer science and emerging technologies, particularly in internet security, cloud computing, artificial intelligence, and the Internet of Things. His scholarly output includes 94 research papers, 10 books, and numerous national and international recognitions. He is actively involved in global academic engagement, recently serving as Convenor and Program Committee Chair for international conferences in Poland and Vietnam, and as Organizing Chair for a 2025 international conference to be held in Jaipur.

## PLENARY SPEAKER

Signal Processing, Computer Vision & Engineering



### ASSOC. PROF. DR. NURULFAJAR BIN ABD MANAP

Faculty of Electronics and Computer Technology and Engineering  
Universiti Teknikal Malaysia Melaka



12 November 2025

11:30 - 11:45 am

*Seminar Hall*

### **Bridging Real and Virtual Worlds: Integrating Spatial Computing into Signal and Vision Systems**

#### **ABSTRACT**

This plenary explores the convergence of signal processing, computer vision and spatial computing technologies such as augmented reality, virtual reality, and deep learning to advance innovation across both technical and human-centered domains. The session highlights recent research and applications in cultural pattern recognition using deep learning, including the classification of Batik motifs from Malaysia and Indonesia, as well as interactive visualizations of Songket patterns through augmented reality. It also features the use of deep neural networks for restoring color to grayscale images and historical video footage, contributing to digital heritage preservation. These interdisciplinary efforts demonstrate how immersive technologies and intelligent vision systems can extend beyond conventional boundaries to support education, cultural storytelling and experiential learning. Through real-world examples and research-led innovation, the keynote offers insights into how spatial computing can reshape the way we perceive, process and interact with both signals and cultural content in meaningful ways.

## PLENARY SPEAKER

Cognitive Science and Computational Biology



**ASSOC. PROF. IR. DR. SYAFEEZA BINTI AHMAD RADZI**

Faculty of Electronics and Computer Technology and Engineering  
Universiti Teknikal Malaysia Melaka



12 November 2025

11:30 - 11:45 am

*Lecture Room 12*

### **Bridging Mind and Biology: AI-Driven Autism Understanding through Cognitive and Computational Intelligence**

#### **ABSTRACT**

This plenary highlights the convergence of cognitive science and computational intelligence in advancing the understanding and early detection of Autism Spectrum Disorder (ASD). It presents two complementary perspectives: the cognitive approach, where DSM-5 behavioral data are modeled using machine learning to capture social and communication traits, and the computational biology approach, where deep learning techniques analyze neural activity patterns to identify atypical brain functions. These studies demonstrate how AI can transform behavioral and biological information into interpretable, measurable insights that support early intervention. The plenary also emphasizes ethical, explainable, and human-centered AI frameworks for clinical application, envisioning a future where intelligent systems not only detect neurological differences but also deepen our understanding of cognition and human diversity.

## PLENARY SPEAKER

Artificial Intelligence and Soft Computing



### PROF. TS. DR. BURHANUDDIN BIN MOHD ABOOBAIDER

Faculty of Information and Communication Technology  
Universiti Teknikal Malaysia Melaka



12 November 2025

14:30 - 14:45 pm

*Seminar Hall*

### **Automated Node-Level Diagnostics and Improvement of Tree Models Using XGBoost and OpenAI**

#### **ABSTRACT**

The growing complexity of tree-based ensemble models, such as Random Forests and Gradient Boosting Machines, poses significant challenges for debugging due to the opacity of their internal decision-making processes. Current explainability techniques predominantly emphasize the importance of input features, often neglecting to address inherent structural deficiencies within the models themselves. This paper presents a novel framework for automated diagnostics and improvement at the node level. Our approach employs a meta-learning strategy in which a pre-trained XGBoost model assesses the health of individual nodes based on structural features derived from the model's standardized Open Neural Network Exchange (ONNX) representation. The resulting granular structural diagnostics are integrated with external validation metrics through the use of a Large Language Model (LLM), culminating in a comprehensive, human-readable

## PLENARY SPEAKER

Artificial Intelligence and Soft Computing



**ASSOC. PROF. TS. DR. CHOO YUN HUOY**

Faculty of Artificial Intelligence and Cyber Security  
Universiti Teknikal Malaysia Melaka



12 November 2025  
14:30 - 14:45 am  
*Lecture Room 17*

### **Machine Learning Operations (MLOps): Bridging the Gap from Model to Production**

#### **ABSTRACT**

This presentation addresses the critical challenges of deploying and managing Machine Learning (ML) systems in real-world environments. Unlike traditional software, ML applications involve complex, dynamic interactions of code, data, and models, creating unique stability and scalability issues. MLOps provides an engineering framework to automate and standardize the entire ML lifecycle, from experimentation and data engineering to production monitoring and governance.

This session will explore the core pillars of MLOps, including Continuous Integration (testing code, data, and models), Continuous Delivery (delivering the entire training pipeline), and Continuous Training (automating model retraining). We will examine key challenges, with a special focus on data and concept drift—the primary drivers of model degradation in production. We will also discuss the importance of achieving end-to-end reproducibility, auditability, and bridging the collaboration gap between data scientists and engineers.

Finally, the presentation will look toward the future of the discipline, including the rise of LLMOps for managing large language models and the critical integration of Responsible AI (RAI) to embed fairness, bias, and explainability checks directly into the MLOps workflow. Attendees will gain a comprehensive understanding of MLOps as the essential engineering discipline for transforming ML models from experimental prototypes into reliable, scalable, and value-delivering production systems.

## PLENARY SPEAKER

IoT and Data Analytics



### TS. DR. NORIHAN BINTI ABDUL HAMID

Faculty of Electronics and Computer Technology and Engineering  
Universiti Teknikal Malaysia Melaka



13 November 2025

9:00 - 9:15 am

*Seminar Hall*

### **Lightweight Computer Vision and IoT Integration for Real-Time Drowsiness Detection**

#### **ABSTRACT**

Drowsiness is a significant contributor to driver road accidents worldwide, posing a severe risk to life and property. Therefore, a real-time drowsiness detection system using a combination of lightweight computer vision and Internet of Things (IoT) technology to enhance road safety is presented in this paper. The system detects drowsiness cues such as eye blinking and yawning using facial landmark-based methods (Dlib) hence performance the comparative analysis for MediaPipe and pretrained CNN. This system implemented in Raspberry Pi system offers visual, auditory and remote alerts via a mobile application and Telegram based cloud notification. Benchmarking and testing were conducted using the YawDD dataset, yielding high detection accuracy with Dlib and MediaPipe on the Raspberry Pi. The proposed system demonstrates a practical and economic solution to prevent drowsy-driving-related accidents.

# CONFERENCE SCHEDULE

## DAY 1

12 November 2025 (Wednesday)

Time (MYT)	Event
08:00 – 09:00	Arrival of Guests and Registration <i>Seminar Hall</i>
09:00 – 09:30	<b>Opening Ceremony</b> National Anthem and “UTeM Terbilang” Doa Recitation Welcoming Speech by the Chairman of TCCE-2025 Officiating Speech by the Distinguished Patron of TCCE-2025 <i>Seminar Hall</i>
09:30 – 9:45	<b>Keynote Speaker 1: Prof. Dr. Mohammad Shahadat Hossain</b> Computer Science & Engineering, University of Chittagong, Bangladesh.  <b>Title: The Evolution of Explainable Artificial Intelligence</b>  Chairperson: Ir. Dr. Noor Azwan bin Shairi <i>Seminar Hall</i>
09:45 – 10:00	<b>Keynote Speaker 2: Prof. Dr. M. Shamim Kaiser</b> Institute of Information Technology, Jahangirnagar University, Bangladesh.  <b>Title: Artificial Intelligence in Healthcare: Key Challenges, Solutions, and Future Prospects</b>  Chairperson: Ir. Dr. Noor Azwan bin Shairi <i>Seminar Hall</i>
10:00 – 10:15	<b>Special Session: Prof. Dr. Vijay Singh Rathore</b> Shree Kkarni Universe College, India.  <b>Title: Best Practices of Research – Ethic</b>  Chairperson: Ts. Dr. Sani Irwan bin Md Salim <i>Seminar Hall</i>

10:15 – 10:45	<p align="center"><b>Group Photo and Tea Break</b> <i>Seminar Hall</i></p>		
10:45 – 11:30	<p align="center">Social Networking and Booth Exhibition <i>Seminar Hall and Faculty Foyer (Ground Floor)</i></p>		
11:30 – 13:00	<p align="center"><b>Parallel Session 1</b></p>		
	Signal Processing, Computer Vision & Engineering	Cognitive Science and Computational Biology	Artificial Intelligence and Soft Computing
	<i>Seminar Hall</i>	<i>Room: BK12</i>	<i>Room: BK17</i>
	<p><b>Plenary Speaker:</b> <b>Assoc. Prof. Dr. Nurulfajar bin Abd Manap</b></p> <p>Session Chair: Dr. Aiman Zakwan bin Jidin</p>	<p><b>Plenary Speaker:</b> <b>Assoc. Prof. Ir. Dr. Syafeeza binti Ahmad Radzi</b></p> <p>Session Chair: Ts. Dr. Nur Fatihah binti Azmi</p>	<p>Session Chair: Ts. Dr. Muhammad Noorazlan Shah bin Zainudin</p>
13:00 – 14:30	<p align="center"><b>Lunch Break</b> <i>Banquet Room (First Floor)</i></p>		
14:30 – 16:30	<p align="center"><b>Parallel Session 2</b></p>		
	Artificial Intelligence and Soft Computing	Network and Security	Artificial Intelligence and Soft Computing
	<i>Seminar Hall</i>	<i>Room: BK12</i>	<i>Room: BK17</i>
	<p><b>Plenary Speaker:</b> <b>Prof. Ts. Dr. Burhanuddin bin Mohd Aboobeider</b></p> <p>Session Chair: Dr. A. K. M. Zakir Hossain</p>	<p>Session Chair: Ts. Siti Rosmaniza binti Ab Rashid</p>	<p><b>Plenary Speaker:</b> <b>Assoc. Prof. Dr. Choo Yun Huoy</b></p> <p>Session Chair: Assoc. Prof. Madya Dr. Kok Swee Leong</p>
16:30 – 17:00	<p align="center"><b>Tea Break</b> <i>Banquet Room (First Floor)</i></p>		

# CONFERENCE SCHEDULE

## DAY 2

13 November 2025 (Thursday)

09:00 – 11:00	<b>Parallel Session 3</b>		
	IoT and Data Analytics	Signal Processing, Computer Vision & Engineering	Artificial Intelligence and Soft Computing
	<i>Seminar Hall</i>	<i>Room: BK12</i>	<i>Room: BK17</i>
	<b>Plenary Speaker:</b> <b>Ts. Dr. Norihan binti Abdul Hamid</b>  Session Chair: Ts. Dr. A. Shamsul Rahimi bin A. Subki	Session Chair: Ts. Dr. Mohd Syafiq bin Mispan	Session Chair: Ts. Dr. Khairul Azha bin A Aziz
11:00 – 11:30	<b>Tea Break</b> <i>Banquet Room (First Floor)</i>		
11:30 – 11:45	<b>Keynote Speaker 3: Prof. Dr. Kanad Ray</b> Amity Cognitive Computing and Brain Informatics Center Amity University, Jaipur, India  <b>Will Superintelligent Machines Erase What It Means to Be Human?</b>  Chairperson: Assoc. Prof. Dr. Mohd Imran bin Ibrahim  <i>Seminar Hall</i>		
11:45 – 13:00	<b>Closing Ceremony &amp; Award Presentation</b>		
13:00	<b>Lunch</b> <i>Seminar Hall</i>		
14:00	Heritage Tour		

## TECHNICAL PROGRAM

### Parallel Session 1

Wednesday, 12 November 2025

Time: 11:30 - 13:00

**Track** : **Signal Processing, Computer Vision & Engineering**

**Venue** : Seminar Hall

**Session Chair** : Dr. Aiman Zakwan bin Jidin (Universiti Teknikal Malaysia Melaka, UTeM)

<b>Plenary Speaker</b> <b>(11:30 - 11:45)</b>	<b>Bridging Real and Virtual Worlds: Integrating Spatial Computing into Signal and Vision Systems</b> <i>Assoc. Prof. Dr. Nurulfajar bin Abd Manap</i>
<p><b>Time: 11:45</b> <b>#1571193620</b> <b>Deep Learning-Based Automatic Colorization of Legacy Grayscale Images for Cultural Heritage Preservation</b> <i>Nurulfajar Abd Manap; Muhammad Fakhrol Hafeez Mohd Fauzi</i></p>	
<p><b>Time: 12:00</b> <b>#1571193058</b> <b>BrewLens: Smart Coffee Bean Scanner and Market Guide</b> <i>Malcolm Jasper C. Frias; Andreij Lacson; John Luis S Mago; Mc Joben R. Reyes</i></p>	
<p><b>Time: 12:15</b> <b>#1571204717</b> <b>Framework Development of the Sustainable Imaging Quality Inspection System for Automotive Metal Stamping Parts Using Machine Learning</b> <i>Wahyono Sapto Widodo</i></p>	
<p><b>Time: 12:30</b> <b>#1571208082</b> <b>Optimizing Hidden Neuron Count in a Shallow ANN for EEG Seizure Detection</b> <i>Zamry Zakaria</i></p>	
<p><b>Time: 12:45</b> <b>#1571200543</b> <b>Real Time Procedural Audio for Immersive Gameplay with MetaSounds</b> <i>Fardani Annisa Damastuti; Kenan Firmansyah; Yunifa Miftachul Arif; Rizky Yuniar Hakkun; Ibrohim Yofid Fananda; Irma Wulandari; Aji Sapta Pramulen; Jauari Akhmad Hasim; Zulhaydar Akbar</i></p>	

## TECHNICAL PROGRAM

**Track** : **Cognitive Science and Computational Biology**

**Venue** : Lecture Room 12 (BK12)

**Session Chair** : Ts. Dr. Nur Fatimah binti Azmi (Universiti Teknikal Malaysia Melaka, UTeM)

<b>Plenary Speaker</b> <b>(11:30 - 11:45)</b>	<b>Bridging Mind and Biology: AI-Driven Autism Understanding through Cognitive and Computational Intelligence</b> <i>Assoc. Prof. Ir. Dr. Syafeeza binti Ahmad Radzi</i>
<b>Time: 11:45</b> <b>#1571202892</b> <b>Dataset Distribution and Annotation Challenges in Multifruit Disease Detection with YOLO Models</b> <i>Syafeeza Ahmad Radzi</i>	
<b>Time: 11:45</b> <b>#1571208343</b> <b>Cognitive Load and Skill Development in Extreme E-Service-Learning: An Engineering Students' Perspective</b> <i>Azizah Yusof</i>	
<b>Time: 12:00</b> <b>#1571205902</b> <b>Optimizing Light Source Selection for Fiber-Optic Limonene Sensors: Comparative Study of Blue, Green, and Red LEDs</b> <i>Hazura Haroon; Thanigai Anbalagan; Hanim Abdul Razak; Anis Suhaila Mohd Zain; Siti Idris; Nurjuliana Juhari</i>	
<b>Time: 12:15</b> <b>#1571206031</b> <b>Designing for Cognitive and Emotional Support: A Mobile Coloring Book Prototype for Mindfulness</b> <i>Farah Azman; Nur Nabilah Syakila Noruddin</i>	
<b>Time: 12:30</b> <b>#1571203084</b> <b>Emergency Response Simulator: Learn and Save Lives</b> <i>Nur Raidah binti Rahim; Sazilah Salam; Che Ku Nuraini Che Ku Mohd; Wan Mohd Yaakob Wan Bejuri; Siti Aisyah Mohd Nasron; Richki Hardi</i>	

## TECHNICAL PROGRAM

**Track** : **Artificial Intelligence and Soft Computing**  
**Venue** : Lecture Room 17 (BK17)  
**Session Chair** : Ts. Dr. Muhammad Noorazlan Shah bin Zainudin (UTeM)

**Time: 11:30**

**#1571172721**

**Intrusion Detection System for IoT Using Lightweight Hybrid Deep Learning**

*Karrar Majid Jasim; Jolan Rokan Naif*

**Time: 11:45**

**#1571191724**

**Empirical Comparison of Transformer Architectures for Binary Classification Using a Multi-Metric Framework Balancing Predictive Accuracy and Computational Efficiency**

*Md. Mortuza Ahmmed; Hasin Almas Sifat; Koushik Biswas Arko; M. Mostafizur Rahman; Mufti Mahmud*

**Time: 12:00**

**#1571192486**

**Cardiovascular Health Insights & Prediction System Using Ensemble Models**

*Zhong Xian Sim; Nurulaqilla Khamis; Shafishuhaza Sahlan; Hazlina Selamat*

**Time: 12:15**

**#1571203041**

**Real-Time Transformer Fault Detection: A Comprehensive Review of Hybrid Vision Transformer and YOLO Models**

*Mardzulliana Binti Zulkifli; Ridza Ramlee; Syafeeza Ahmad Radzi; Nur Syuhada Amir Hamzah; Muhammad Farhan Norazman*

**Time: 12:30**

**#1571193905**

**Individual and Institution Level Analysis of Agricultural Drone Technology Adoption: A Literature & Empirical Study**

*Yusril Rahman; Tony Dwi Susanto*

**Time: 12:45**

**#1571210142**

**Optimization of Doped PANI/Go-Based Perovskite Solar Cells Using Hybrid Predictive Modeling Technique**

*Fauziyah Salehuddin; Nabilah Ahmad Jalaludin; Faiz Arith; Nurul Farina Mohd Nazli; Siti Aisah; Anis Suhaila Mohd Zain; Khairil Ezwan Kaharudin*

## TECHNICAL PROGRAM

### Parallel Session 2

Wednesday, 12 November 2025

Time: 14:30 - 16:30

**Track** : Artificial Intelligence and Soft Computing | IoT and Data Analytics

**Venue** : Seminar Hall

**Session Chair** : Dr. A. K. M. Zakir Hossain (Universiti Teknikal Malaysia Melaka, UTeM)

<b>Plenary Speaker</b> <b>(14:30 - 14:45)</b>	<b>Automated Node-Level Diagnostics and Improvement of Tree Models using XGBoost and OpenAI</b> <i>Prof. Ts. Dr. Burhanuddin bin Mohd Aboobeider</i>
<b>Time: 14:45</b> <b>#1571194387</b> <b>Modelling Adaptive Empathy Through Habituation Effects in Social Agents</b> <i>Nurul Husna Mukhtar; Azizi Ab. Aziz; Husniza Husni</i>	
<b>Time: 15:00</b> <b>#1571202521</b> <b>RGB Image Interpolation Using Cubic q-Bezier Triangular Patches</b> <i>Samsul Ariffin Abdul Karim; Owen Tamin; Ervin Gubin MOUNG; Jumat Sulaiman; Faheem Khan; Zamani Md Sani</i>	
<b>Time: 15:15</b> <b>#1571202515</b> <b>Modeling Post Treatment Orthodontic Curves Using Natural Cubic Spline and Hermite Spline Interpolation</b> <i>Samsul Ariffin Abdul Karim; Sharmila Karim; Rahela Abdul Rahim; Si Yee Choo; Pennie Loi</i>	
<b>Time: 15:30</b> <b>#1571202360</b> <b>Improved Delaunay Triangulation Based on Support Vector Regression and Laplacian Smoothing</b> <i>Samsul Ariffin Abdul Karim; Owen Tamin; Ervin Gubin MOUNG; Jumat Sulaiman; Mawardi Bahri; Abdul Ghaffar; Zamani Md Sani</i>	

## TECHNICAL PROGRAM

**Time: 15:45**

**#1571201685**

**Deep Convolutional Neural Networks for Precision Agriculture: Automated Pomegranate Disease Classification**

*Sumshun Nahar Eity; Tanisha Fairouz; Hasan Mahmud; Amina Tasnim Oishe; Sharfuddin Mahmood; Md. Mortuza Ahmmed*

**Time: 16:00**

**#1571202476**

**Experimental Evaluation of PSO-PID Controller in Precision Pneumatic Actuator Applications**

*Faiez Ezzuddin Esham; Sharatul Izah Samsudin; Khairuddin Osman*

**Time: 16:15**

**#1571200993**

**An Attention-Based CNN Framework with Hybrid Annotation for Multiclass Screening of Postpartum Depression**

*Afsana Hena; Nazneen Akhter; Jasiya Fairiz Raisa*

## TECHNICAL PROGRAM

**Track** : Network and Security | Cognitive Science & Computational Biology  
**Venue** : Lecture Room 12 (BK12)  
**Session Chair** : Ts. Siti Rosmaniza binti Ab Rashid (UTeM)

**Time: 14:30**

**#1571210019**

**Performance Evaluation of Handover Control Parameters in Non-Standalone Dual Connectivity 5G mmWave Networks Under a Realistic Simulation Environment**

*Tehseen Ullah Khattak; Vigneswara Rao Gannapathy; Siva Kumar Subramaniam; Ahamed Tuani; Siti Aisyah Anas*

**Time: 14:45**

**#1571205375**

**Educators' Perception Towards Engineering Graduates' Skills at Malaysian Higher Education Institution Towards Sustainability**

*Hasan Saleh*

**Time: 15:00**

**#1571209909**

**Connecting Policy and Network Controls: Experimental Evaluation of an Integrity-Centred ICT Security Framework for Malaysian Education**

*Azlin Binti Ramli; Darus Mohamad Yusof; Fakariah Hani Mohd Ali; Roshayati Osman*

**Time: 15:15**

**#1571193948**

**Drone Technology for Smart Farming: Applications, Opportunities, Challenges, and Technical Specifications**

*Muhammad Amirul Mukminin; Tony Dwi Susanto*

**Time: 15:30**

**#1571208312**

**EnCAS: Feed-Forward Neural Network for Time-Efficient Cover Selection in Audio Steganography**

*Taqiyuddin Anas; Farida Ridzuan; Sakinah Ali Pitchay*

**Time: 15:45**

**#1571203088**

**A Blockchain Driven Secure Privacy Enforcement System for Personally Identifiable Information at the Pre-Transit Phase in Web Systems**

*Md. Azizul Hakim Sowrov; Rashed Mazumder*

## TECHNICAL PROGRAM

**Track** : Artificial Intelligence and Soft Computing

**Venue** : Lecture Room 17 (BK17)

**Session Chair** : Assoc. Prof. Dr. Kok Swee Leong (Universiti Teknikal Malaysia Melaka, UTeM)

<b>Plenary Speaker</b> <b>(14:30 - 14:45)</b>	<b>Machine Learning Operations (MLOps): Bridging the Gap from Model to Production</b> <i>Assoc. Prof. Dr Choo Yun Huoy</i>
<b>Time: 14:45</b> <b>#1571209921</b> <b>Towards Computing Futures in Education: An Adaptive Decision Model for Teacher-School Matching with Explainable Outputs</b> <i>Roshayati Osman; Mohd Zakree Ahmad Nazri; Zulkefli Bin Mansor; Azlin Binti Ramli</i>	
<b>Time: 15:00</b> <b>#1571210184</b> <b>Performance Improvement of CsPbI3 Perovskite Solar Cells Using Taguchi-GRA Based Predictive Modeling</b> <i>Fauziyah Salehuddin; Nurul Farina Mohd Nazli; Faiz Arith; Siti Aisah; Nabilah Ahmad Jalaludin; Anis Suhaila Mohd Zain; Khairil Ezwan Kaharudin</i>	
<b>Time: 15:15</b> <b>#1571210389</b> <b>Machine Learning for Scholarship Prediction: A Systematic Review of Eligibility and Acceptance Models</b> <i>Muhammad Thoriq; Sakinah Ali Pitchay; Farida Ridzuan</i>	
<b>Time: 15:30</b> <b>#1571209208</b> <b>AI Induced Burnout in Tech: A SHAP Based Diagnostic Study with an HCI-Guided Intervention Model</b> <i>Sakshi Kiran Naik</i>	
<b>Time: 15:45</b> <b>#1571209348</b> <b>The Application of Artificial Intelligence in Educational Evaluation: A Bibliometric Analysis</b> <i>Wahyu Muhammad Ramdhani</i>	
<b>Time: 16:00</b> <b>#1571208411</b> <b>MultiBanAbs: A Comprehensive Multi-Domain Bangla Abstractive Text Summarization Dataset</b> <i>Md. Tanzim Ferdous; Naeem Ahsan Chowdhury; Prithwiraj Bhattacharjee</i>	

## TECHNICAL PROGRAM

### Parallel Session 3

Thursday, 13 November 2025

Time: 9:00 - 11:00

**Track : IoT and Data Analytics**

Venue : Seminar Hall

Session Chair : Ts. Dr. A. Shamsul Rahimi bin A. Subki (UTeM)

<b>Plenary Speaker</b> <b>(9:00 - 9:15)</b>	<b>Lightweight Computer Vision and IoT Integration for Real-Time Drowsiness Detection</b> <i>Ts. Dr. Norihan Abdul Hamid</i>
<p><b>Time: 9:15</b> <b>#1571193904</b> <b>AquaSense Solutions: Internet-Of-Things-Based Water Quality Monitoring System</b> <i>Rovic G Batacandolo; Cristan Guzman Ramos; Eleazar Concepcion de Guzman; Angel Rose C. Alfonso; Mc Joben R. Reyes</i></p>	
<p><b>Time: 9:30</b> <b>#1571199828</b> <b>Tracing Connectivity: Mobile Network User Trends and Transformations in Bangladesh Between 2015 to 2024</b> <i>Md. Mortuza Ahmmed; Tamim Hasan Apurbo; Mahdi Hassan Noor Asif; Safwan Mahmud Anik; M. Mostafizur Rahman; Mufti Mahmud</i></p>	
<p><b>Time: 9:45</b> <b>#1571209502</b> <b>A Modularized Cloud Computing Adoption for E-Government System</b> <i>Ban Salman Shukur; Mohd Khanapi Abd Ghani; Maad M. Mijwil; Burhanuddin Mohd Aboobaider; Ali S. Abed Al Sailawi; Hassan A. Hameed Al-Hamzawi</i></p>	
<p><b>Time: 10:00</b> <b>#1571174335</b> <b>Black Pepper: a Predictive Model Integrating NDVI, ROC, and SWA for NPK Optimization</b> <i>Anding Nyuak; Edwin Mit; Siti Fatia Mohamad Ali</i></p>	

## TECHNICAL PROGRAM

**Time: 10:15**

**#1571202870**

**A Methodology for Generating Synthetic Test Case - Requirement Data for Traceability Matrix and Test Suite Reduction Research**

*Haw Yuan Kang; Raja Rina Raja Ikram; Kamal Z Zamli*

**Time: 10:30** (Virtual)

**#1571193157**

**Risk Model of Digital Customer Engagement in Rental Collaborative Consumption Platforms**

*Muhammad Faiz bin Nasir*

## TECHNICAL PROGRAM

**Track** : **Signal Processing, Computer Vision & Engineering | Artificial Intelligence and Soft Computing**

**Venue** : Lecture Room 12 (BK12)

**Session Chair** : Ts. Dr. Mohd Syafiq bin Mispan (Universiti Teknikal Malaysia Melaka, UTeM)

**Time: 9:00**

**#1571210381**

**Wideband Effect of CPW Felt Wearable Antenna on Human Skin Layer Phantom at 1.8 GHz, 2.4 GHz and 3.5 GHz**

*Badrul Hisham Ahmad; Muhammad Syafiq Noor Azizi; Nornikman Hassan; Mohamad Hafize Ramli*

**Time: 9:15**

**#1571193846**

**Enhancing S&P 500 Forecasting with Multi-Source Sentiment Analysis from Social Media and Financial Videos**

*Carmel Natasha Barnabas; Tan Chye Cheah*

**Time: 9:30**

**#1571203140**

**A Multilingual Deep Learning Framework for Sign Language Recognition and Translation**

*Sharmin Islam Shroddha; Sumaia Anjum Shaba; Sudipto Biswas; Siam Tahsin Bhuiyan; Rashedur Rahman; Saadia Binte Alam; Ashraful Islam*

**Time: 9:45**

**#1571202695**

**Toward Generalized Detection of Synthetic Media: Limitations, Challenges, and the Path to Multimodal Solutions**

*Redwan Hussain; Mizanur Rahman; Prithwiraj Bhattacharjee*

**Time: 10:00**

**#1571202648**

**MIME: Multi-Strategy Imbalance Mitigation Engine for Skin Cancer Classification**

*Md. Nasif Safwan; Souhardo Rahman; Md. Abdulla Al Hasib; Md. Hasibul Islam; Mahamodul Hasan Mahadi; Mohammad Nasir Uddin*

**Time: 10:15**

**#1571202740**

**Design and Analysis of a Circularly Polarized UHF RFID Reader Antenna with Machine Learning-Based Performance Prediction**

*Ergün Yilmazer; Merih Palandoken*

**Time: 10:30**

**#1571206384**

**Forecasting Cocoa Prices in Tawau, Sabah: A Comparative Time Series Approaches Using ARIMA and Exponential Smoothing**

*Sharmila Karim; Rohaiza Zakaria; Hashibah Hamid; Samsul Ariffin Abdul Karim; Nabilah Abu Bakar*

## TECHNICAL PROGRAM

**Track** : **Artificial Intelligence and Soft Computing**

**Venue** : Lecture Room 17 (BK17)

**Session Chair** : Ts. Dr. Khairul Azha Bin A Aziz (Universiti Teknikal Malaysia Melaka, UTeM)

**Time: 9:00**

**#1571203034**

**Deep Learning Approach for Covid-19 Detection: Integrating CNN & LSTM Using Chest X-Ray**

*Nur Syuhada Amir Hamzah; Ridza Ramlee; Masrullizam Mat Ibrahim; Mardzulliana Binti Zulkifli*

**Time: 9:15**

**#1571202602**

**Comparative Analysis of Machine Learning Architectures for Multimodal Cloud-to-Ground Lightning Classification Using CAPPI Radar and Electric Field Data**

*Xian Gie Cheah; Mawarni Mohamed Yunus; Nor Azlan Mohd Aris*

**Time: 9:30**

**#1571203124**

**Zero-Shot Indonesian Food Classification with CLIP: Cultural Adaptation Through Prompt Engineering**

*Yeni Dwi Rahayu; Slamet Riyadi*

**Time: 9:45**

**#1571196255**

**BloomNet: Exploring Single vs. Multiple Object Annotation for Flower Recognition Using YOLO Variants**

*Safwat Nusrat; Prithwiraj Bhattacharjee*

**Time: 10:00**

**#1571209916**

**Fuzzy-Logic-Based Multi-Sensor Fusion for Marine Engine Health Diagnostics**

*Mohd Fairuz Nasir; Mawarni Mohamed Yunus*

**Time: 10:15**

**#1571203730**

**Evaluating Metaheuristic Strategies for Cost-Effective Team Formation Using Chaotic Maps and Roulette Wheel Selection**

*Raja Rina Raja Ikram; Kurk Wei Yi; Kamal Z Zamli; Nurul Aisyah Aris; Haw Yuan Kang*

**Time: 10:30**

**#1571202626**

**Diabetes Classification Based on Clinical Risk Factors Using Supervised Machine Learning and KNN-XGBoost Ensemble**

*Md. Najmul Islam*

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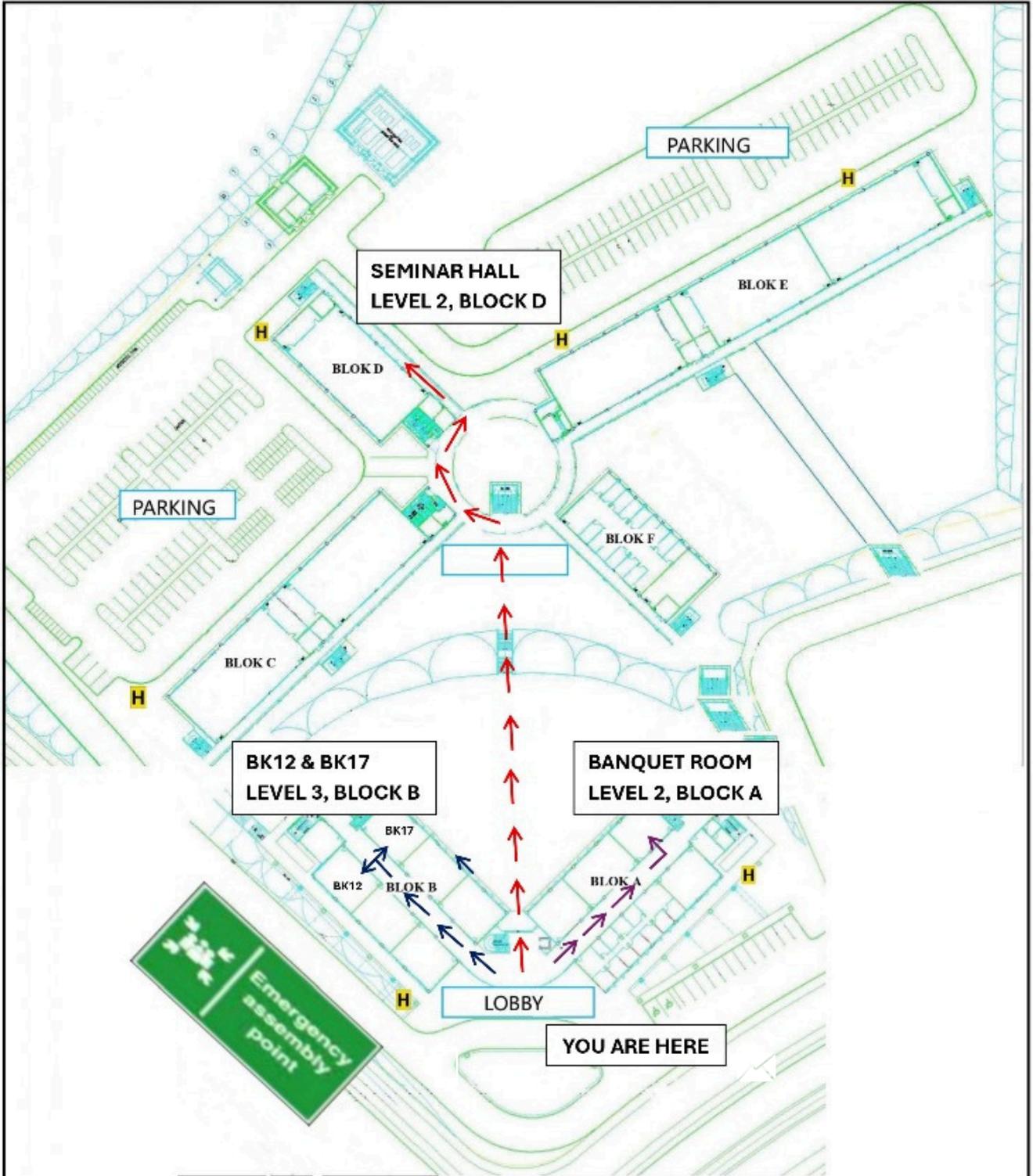
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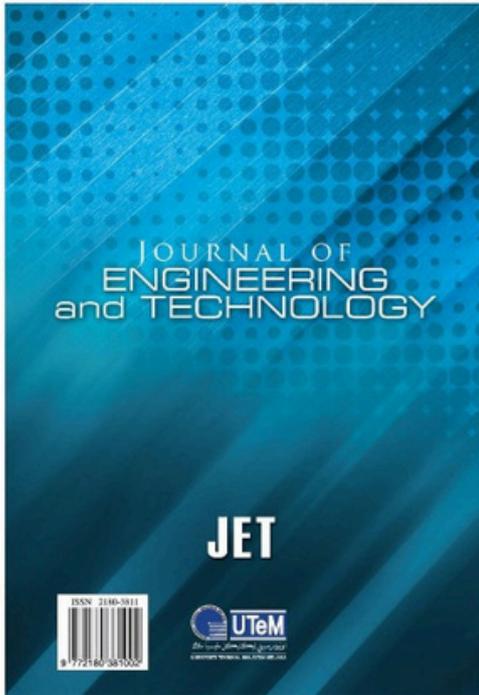
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