PROGRAMME BOOK

ORGANIZER:
FACULTY OF COMPUTER SCIENCE AND MATHEMATICS,
UNIVERSITI MALAYSIA TERENGGANU

CO-ORGANIZERS:
UNIVERSITI KEBANGSAAN MALAYSIA (UKM)
JAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (JAIST)
UNIVERSITAS KOMPUTER INDONESIA (UNIKOM)

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TENTATIVE PROGRAMME
OPENING CEREMONY & KEYNOTE SPEECHES
11 AUGUST 2024
Dewan Persidangan 1 (DP1),
UMT Convention Centre (UMTCC)

Time	Activity
0800 - 0830	Registration & Breakfast
0830 - 0900	Arrival of Participants
0900 - 0905	Arrival of the VIP's
0905 - 0910	Salutation by Emcee & Doa Recitation
0910 - 0915	Universiti Malaysia Terengganu Corporate Video
0915 – 0925	Welcoming Speech
0925 - 0935	Opening Speech
0935 - 0945	Opening Gimmick and Montage Video
0945 - 0950	Malay Cultural Show
0950-0955	Gifts Exchange Ceremony
0955-1000	Photo Session
1000 - 1030	**Keynote Speaker 1:** Professor Dato' Ts. Dr Aziz Deraman (UMT) Title: Software Ageing Index Model: An Instrument for Quality Monitoring **Chairperson**: Dr. Ummu Atiqah Mohd Roslan
1030 - 1100	**Keynote Speaker 2:** Associate Professor Dr Masnizah Mohd (UKM) Title: Why Does the Human Factor in Cybersecurity Matter? **Chairperson**: Dr. Ummu Atiqah Mohd Roslan

PRESENTATION SCHEDULE: MORNING SESSION

	Parallel Session 1 Venue: Dewan Persidangan 1	**Parallel Session 2** Venue: Dewan Persidangan 2	**Parallel Session 3** Venue: Dewan Persidangan 3
Time	**Chairperson** Dr Rosaida Rosly ***Track: Machine Learning for Predictive Environmental Modelling (MLPEM)***	**Chairperson** Dr Najihah Ibrahim ***Track: Information Knowledge & Management (IKM)***	**Chairperson** Dr Nur Baini Ismail ***Track: Data Analytics & Environment (DAE)***
1130 - 1145	**INVITED SPEAKER** Professor Hiroyuki Iida (JAIST) Title: "Fruitful Collaborations in AWIST Community"	**INVITED SPEAKER** Ts. Dr Mohd Nor Akmal Khalid (UKM) Title: "A Framework for Assisted Knowledge Management Practices using Large Language Models: Preliminary Findings"	**INVITED SPEAKER** Dr Hanhan (UNIKOM) Title: "The use of AI Technology to Predict Oil Palm Fertilizer Needs based on the Leaf's Greenness Level"
1145 - 1200	**ID 11** Title: A Comparative Analysis of Machine Learning Algorithms for Diabetes Prediction	**ID 5** Title: Exploring DevOps Metrics: A Study on Code Maintainability and DevOps Deployment Practices	**ID 2** Title: Performance Evaluation of YOLOv6, YOLOv7, and YOLOv8 for Underwater Coral Reef Fish Detection
1200 - 1215	**ID 12** Title: Deep Learning Approach for Aspect Category Detection: A Bibliometric Analysis	**ID 15** Title: KAWANKULINER: Food Recommendation Application for Daily Calorie Needs based on Basal Metabolic Rate and Total Daily Expenditure Energy Utilizing Smart Scale	**ID 7** Title: Controlling Traffic for Clean Air and Healthy Cities with AI-based Traffic Signal Optimization for a Sustainable Future
1215 - 1230	**ID 31** Title: Strategic Selection and Design of the First Auction Item: Analyzing Auction Dynamics through Motion in Mind and Potential Reinforcement Energy	**ID 17** Title: Software Model Checking for Distributed Applications using Hybridization of Centralization and Cache Approaches	**ID 13** Title: Corner Pixel-Based Method for Selecting Binary Text in Scene Images

1230 - 1245	**ID 32** Title: Can AI Resign at the Right Time in a Game of Shogi?	**ID 42** Title: Exploring the Benefits, Challenges and Guidelines of Devops Adoption: A Systematic Literature Review and An Empirical Study	**ID 27** Title: Analyzing Soccer Dynamics Using Motion in Mind Model
1245 – 1300	**ID 33** Title: Analyzing Indonesiang Twitter Data using Feature Extraction and Machine Learning	**ID 19** Title: A Digital Transformation Model for Saudi Arabia's E-Government Landscape: The Conceptual Model	
1300 - 1400	Lunch and Prayer Break		

PRESENTATION SCHEDULE: MORNING SESSION

	Parallel Session 1 Venue: Dewan Persidangan 1	**Parallel Session 2** Venue: Dewan Persidangan 2	**Parallel Session 3** Venue: Dewan Persidangan 3
Time	**Chairperson** Dr Arifah Che Alhadi ***Track: Machine Learning for Predictive Environmental Modelling (MLPEM)***	**Chairperson** Dr Sharifah Mashita Syed Mohamad ***Track: Information Knowledge & Management (IKM)***	**Chairperson** Assoc. Prof. Ts Dr Wan Nural Jawahir Hj Wan Yussof ***Track: Data Driven Decision Making (DDDM)***
1400 – 1415	**ID 14** Title: Analysis of Wavelet-Based Features for Identifying Similarities in Turtle Scute Patterns	**ID 46** Title: Adapting Zero TrustL Information Security Cultural Factors Considerations in the UAE Context	**ID 44** Title: Adaptive Entropy Index Histogram Equalization and InceptionV3 for Diabetic Retinopathy Classification
1415 – 1430	**ID 38** Title: Deep Learning for Overlapping Objects Detection with Noise: A Bibliometric Analysis	**ID 4** Title: Fractal Motif of 'Garuda Ngupuk': Central Inspiration in the Evolution of Lokatmala Batik Design with Sundanese Script	**ID 45** Title: Parameter Optimisation on Edge Preserving Filters for Magnetic Resonance Angiography Images

1430 – 1445	**ID 10** Title: E-Swish Activations in ResNet Architectures for Enhanced Sea Turtle Recognition	**ID 22** Title: Software Maintenance Assessment: An Analysis of Determination Factors	**ID 9** Title: Static Sign Language Translator using Hand Gesture and Speech Recognition
1445 – 1500	**ID 3** Title: Predictive Modelling in Flood Area using Artificial Intelligence and Machine Learning Methods: Study Case West Java Province		**ID 25** Title: Studying The Emotional Impact of Increasing Cooperative Players towards the Difficulty of a Game
1500 – 1515	**ID 30** Title: Classification to Diagnose Stroke using Orange Data Mining	**Chairperson** Dr Azwani Alias ***Track: Mathematical Modelling for Environment (MME)*** **ID 28** Title: Best Proximity Point Result for Fuzzy Z-Proximal Contractors in Fuzzy Metric Spaces	**ID 21** Title: A Review on Machine Learning and Deep Learning Techniques for Textual Emotion Analysis on Social Networks
1515 – 1530	**ID 36** Title: Overview of liver Fibrosis Detection Method Using machine learning Approaches	**ID 39** Title: Mathematical Modelling of Prey-Predator Dynamics: A Systematic Literature Review	**ID 37** Title: The Social Presence Impact on Purchase Intention for M-Commerce Interfaces
1530 – 1545	**ID 26** Title: Exploring the Intelligence of AI Through Applying the Mechanism of Gravity in Mind Upon AI	**ID 49** Title: On the Approximation Algorithms for Solving Riccati Differential Equations using Piecewise Constant Argument Method	

ABSTRACT AND BIODATA FOR SPEAKERS

KEYNOTE SPEAKER 1: PROFESSOR DATO' Ts. DR. AZIZ DERAMAN

SOFTWARE AGEING INDEX MODEL: AN INSTRUMENT FOR QUALITY MONITORING

Software ageing refers to the decline in performance experienced by a software product over time. This decline can render software obsolete and lead to issues for users and organizations. Similar to humans, ageing is an unavoidable natural process for software. However, by recognizing and addressing the factors contributing to ageing, its progression can be mitigated. This research delves into the external factors influencing software ageing, particularly focusing on software quality dimensions. Previous research indicates a strong correlation between software ageing and its quality. Consistent quality monitoring is essential for preserving relevance, slowing down ageing, and ensuring the software remains effective and up-to-date. Software ageing evaluation aims to assist software owners in assessing and monitoring the ongoing relevance of their application software within specific environments. Hence, an instrument to evaluate the software product is crucial to be developed. The instrument can be used by software product owners to monitor their software product state. This paper discusses on three phases of instrument development for software product evaluation and ageing index which are the development of measurement requirements, development of the instrument construct and items, and instrument validation. This paper also presents the result of a preliminary study that has been conducted among software practitioners.

SHORT BIODATA:

PROFESSOR DATO' Ts. DR. AZIZ DERAMAN is a distinguished expert in Computer Science, specializing in Software Engineering. Renowned for his pivotal role in developing Software Testing Standards for Malaysia, he currently serves as the Chairman of the Decision Committee for the Malaysian Software Testing Board (MSTB) since 2015. His prolific academic contributions include authoring 14 books and numerous scholarly publications, totaling over 250. With a rich portfolio of over 25 research projects, Professor Dato' Ts Dr. Aziz's impact extends beyond academia. Notable endeavors include the development of critical systems like the UKM Information System and various ICT initiatives benefiting sectors such as agriculture and education. His dedication to bridging the digital divide is evident through his involvement in projects aimed at empowering underserved communities in multiple Malaysian states. Beyond his academic and professional achievements, Professor Dato' Ts Dr. Aziz has held significant administrative roles, including serving as Vice-Chancellor of Universiti Malaysia Terengganu (UMT).

KEYNOTE SPEAKER 2: ASSOC. PROF. DR. MASNIZAH MOHD (UKM)

WHY DOES THE HUMAN FACTOR IN CYBERSECURITY MATTER?

"Humans are often the weakest link." This statement motivates us to understand the human-related factors in cybersecurity. The role of linguistics is crucial, as feature engineering approaches can profile actors in cyberbullying by analyzing language patterns and human behavior. Additionally, cybersecurity measures are engineered to address these human vulnerabilities, from phishing simulations that train users to recognize threats to awareness programs designed to educate and protect. We can build a safer cyberspace by understanding and empowering this human link. Thus, it is sustainable for environmental wellness.

SHORT BIODATA:

DR. MASNIZAH MOHD is an Associate Professor at the Faculty of Information Science and Technology (FTSM), Universiti Kebangsaan Malaysia (UKM). She did her sabbatical at INVOKE Solutions Sdn Bhd from Mac – July, 2021 where she was assigned under the Analytics department. Previously, she did her postdoc at the Natural Language Processing lab, School of Information Science, Japan Advanced Institute of Science and Technology (JAIST) from May 2014 to March 2016. She received her PhD in Computer and Information Sciences from the University of Strathclyde, Glasgow UK (2010). She holds M.IT (2002) and B.IT (1999) degrees in Information Science from the Universiti Kebangsaan Malaysia. Her main research interests are in the areas of Information Retrieval, Natural Language Processing (NLP), and Cyber Intelligence. She also served as the main secretariat in Non-Governmental Organization (NGO) such as Information Retrieval and Knowledge Management Society (PECAMP) Malaysia and Cyber Security Academia Malaysia (CSAM).

INVITED SPEAKER 1: PROF. DR. HIROYUKI IIDA (JAIST)

Title of talk: Fruitful Collaborations in AWIST Community

PROFESSOR HIROYUKI IIDA received a Ph.D. in heuristic theories on game-tree search from the Tokyo University of Agriculture and Technology, Tokyo, in 1994. He was with Shizuoka University, Hamamatsu, and a Guest Researcher with Maastricht University. He is a Japanese Computer Scientist and a Computer Games Researcher (Professor) focusing on game refinement theory, opponent model search, and computer Shogi. He is also the Trustee and the Vice President of Educational and Student Affairs with the Japan Advanced Institute of Science and Technology (JAIST), the Director of the Research Center for Entertainment Science from 2019 to 2020, and the Head of the Iida Laboratory. His research interests include artificial intelligence, game informatics, game theory, mathematical models, search algorithms, game refinement theory, game tree search, and entertainment science. He is also a professional 7-dan Shogi player and coauthor of the Shogi Program Tacos, the Gold Medal Winner at Computer Olympiads four times. He is a member of the Board of the ICGA as a Secretary-Treasurer and a Section Editor of the ICGA Journal.

INVITED SPEAKER 2: DR. HANHAN (UNIKOM)

Title of talk: A Framework for Assisted Knowledge Management Practices using Large Language Models: Preliminary Findings

DR. HANHAN MAULANA is a lecturer and head of department of informatics engineering study program in the Universitas Komputer Indonesia. He obtained a bachelor's degree in the same study program where he works now, the informatics engineering study program, Universitas Komputer Indonesia in 2011. In 2012 he took a master's degree through the double degree program at the Universitas Komputer Indonesia and Youngsan University, South Korea and graduated in 2014. Then He received a P.hd degree at the School of Knowledge Science, Japan Advanced Institute of Science and Technology (JAIST) in 2022. with the dissertation title Research on a Geographic Information System (GIS) to Assist Farmers in Making a Decision Regarding Commodity Selection and Land Evaluation. His research interests include Human-Computer Interaction (HCI), GIS, AR, VR, Multimedia and IoT systems, especially IoT for agriculture and sports.

INVITED SPEAKER 3: TS. DR. MOHD NOR AKMAL KHALID

DR. MOHD NOR AKMAL KHALID is a senior lecturer at the Faculty of Information Science and Technology and a Center for Artificial Intelligence Technology (CAIT) member at Universiti Kebangsaan Malaysia. He conferred his B. Comp. Sc. (Hons), MSc., and Ph.D. degrees from the Universiti Sains Malaysia in 2013, 2015, and 2018, respectively. He was previously employed as an assistant professor (or lecturer) at the School of Information Science, Japan Advanced Institute of Science and Technology (JAIST), Nomi, Japan. He is an active program committee for the ASEAN Workshop of Information Science and Technology (AWIST), an IEEE Society member, an associate member of MyAIS Malaysian Chapter, a professional technologist certified with the Malaysian Board of Technologist (MBOT), and a member of the Association for Advancement of Artificial Intelligence (AAAI). His expertise lies in artificial intelligence, games, modeling, simulation, data analytics, and optimization. His field of studies spanned the fields of operational research, theoretical game design, risk management, and process optimization.

LIST OF PAPERS

No.	TRACK	Paper ID	Paper Title
1	DAE	2	Performance Evaluation of YOLOv6, YOLOv7, and YOLOv8 for Underwater Coral Reef Fish Detection *Mohammad Amyruddin Shamsuddin (UMT); Wan Nural Jawahir Hj Wan Yussof (UMT)*; Muhammad Suzuri Hitam (UMT); Ezmahamrul Afreen Awalludin (UMT); Muhammad Afiq Firdaus Aminudin (UMT); Zainudin Bachok (UMT)*
2	DAE	7	Controlling Traffic for Clean Air and Healthy Cities with AI-based Traffic Signal Optimization for a Sustainable Future *Muhammad Aria Pohan (Universitas Komputer Indonesia)**
3	DAE	8	The use of AI Technology To Predict Oil Palm Fertilizer Needs Based on the Leaf's Greenness Level *Hanhan Maulana (Universitas Komputer Indonesia)*; Hideaki Kanai (Japan Advanced Institute of Science and Technology); Yohanes Sinaga (Universitas Komputer Indonesia); Sri Supatmi (Universitas Komputer Indonesia)*
4	DAE	13	Corner Pixel-Based Method for Selecting Binary Text In Scene Images *Ednawati Rainarli (Universitas Komputer Indonesia)*; Suprapto Suprapto (Universitas Gadjah Mada); Wahyono Wahyono (Universitas Gadjah Mada)*
5	DAE	27	Analyzing Soccer Dynamics using Motion in Mind Model NUMAN Muhammad (Japan Advance Institute of Science and Technology)*
6	DAE	48	Incorporating Green Software and Waste Elements for Environmental Sustainability *Siti Rohana Binti Ahmad Ibrahim (Universiti Kebangsaan Malaysia)**
7	DDDM	9	Static Sign Language Translator using Hand Gesture and Speech Recognition *Eko Budi Setiawan (Universitas Komputer Indonesia)*; Agus Darmawan (Universitas Komputer Indonesia); Budi Herdiana (Universitas Komputer Indonesia)*
8	DDDM	21	A Review on Machine Learning and Deep Learning Techniques for Textual Emotion Analysis on Social Networks *Rahmat Ullah Khan (UMT)*; Arifah Che Alhadi (UMT)*
9	DDDM	25	Studying The Emotional Impact of Increasing Cooperative Players Towards the Difficulty of A Game *Sagguneswaraan Thavamuni (JAIST)*; Hiroyuki Iida (Japan advanced institute of science and technology); Mohd. Nor Akmal Khalid (Universiti Kebangsaan Malaysia)*

10	DDDM	37	The Social Presence Impact on Purchase Intention for M-Commerce Interfaces *Syazli Adam Bin Shamsul Bahri (UMT)**
11	DDDM	44	Adaptive Entropy Index Histogram Equalization and InceptionV3 for Diabetic Retinopathy Classification *Nur Intan Raihana Ruhaiyem (Universiti Sains Malaysia)*; Zahraa Watheq Mnaathar Alsahlanee (Universiti Sains Malaysia)*
12	DDDM	45	Parameter Optimisation on Edge Preserving Filters for Magnetic Resonance Angiography Images *Nur Intan Raihana Ruhaiyem (Universiti Sains Malaysia)*; Nur Atifah Hammade (Universiti Sains Malaysia)*
13	IKM	4	Fractal Motif of 'Garuda Ngupuk': Central Inspiration in the Evolution of Lokatmala Batik Design with Sundanese Script *Yeffry Handoko Putra (Universitas Komputer Indonesia)*; Taufan Hidayatullah (Universitas Komputer Indonesia); Rahma Wahdiniwaty (Universitas Komputer Indonesia)*
14	IKM	5	Exploring DevOps Metrics: A Study on Code Maintainability and DevOps Deployment Practices *Sharifah Mashita Syed Mohamad (UMT); Norsyazwani Binti Mohd Subri (UMT)*; Masita Jalil (UMT); Amir Ngah (UMT); Najihah Ibrahim (UMT)*
15	IKM	15	Kawankuliner: Food Recommendation Application for Daily Calorie Needs Based on Basal Metabolic Rate and Total Daily Expenditure Energy Utilizing Smart Scale *Richi Dwi Agustia (Universitas Komputer Indonesia)*; Angga Abadi (Universitas Komputer Indonesia)*
16	IKM	17	Software Model Checking for Distributed Applications using Hybridization of Centralization and Cache Approaches *Hing Ratana (Universiti Sains Malaysia)*; Sharifah Mashita Syed Mohamad (Universiti Malaysia Terengganu); Chan Huah Yong (Universiti Sains Malaysia)*
17	IKM	19	A Digital Transformation Framework for Saudi Arabia'S E-Government Landscape: The Conceptual Model *Jamaiah Yahaya (The National Council of Professors Global Reach, Country Heights, 43000 Kajang, Selangor, Malaysia); Jamaiah Yahaya (Universiti Kebangsaan Malaysia)*; Mohammed Zaid M. Hammad (Universiti Kebangsaan Malaysia); Ibrahim Mohamed (Universiti Kebangsaan Malaysia)*
18	IKM	22	Software Maintenance Assessment: An Analysis of Determination Factors *Ku Saimah Ku Ibrahim (Universiti Malaysia Pahang)**

19	IKM	24	A Framework for Knowledge Management Practices using Large Language Models: Preliminary Findings *Mohd. Nor Akmal Khalid (Universiti Kebangsaan Malaysia)*; Nazhatul Hafizah Kamarudin (Universiti Kebangsaan Malaysia); Wiwied Virgiyanti (UMT); Ramayah Thurasamy (Universiti Sains Malaysia)*
20	IKM	35	Software Product Evaluation and Ageing Index Model: An Instrument Development *Zuriani Hayati Abdullah (INTI International University)*; Aziz Deraman (UMT); Jamaiah Yahaya (Universiti Kebangsaan Malaysia); Zulkefli Mansor (Universiti Kebangsaan Malaysia)*
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22	IKM	46	Adapting Zero Trust: Information Security Cultural Factors Considerations in the UAE Context *Bader H Zyoud (Universiti Sains Malaysia)*; Syaheerah Lebai Lutfi (Universiti Sains Malaysia, Malaysia)*
23	MLPEM	3	Predictive Modelling in Flood Area Using Artificial Intelligence and Machine Learning Methods: Study Case West Java Province *Sri Supatmi (Universitas Komputer Indonesia)*; Rongtao Hou (Nanjing University of Information Science and Technology); Mia Fitriawati (Universitas Komputer Indonesia); Hanhan Maulana (Universitas Komputer Indonesia)*
24	MLPEM	10	E-Swish Activations in ResNet Architectures for Enhanced Sea Turtle Recognition *Siti NurFarahim Shaharudin (UMT); Wan Nural Jawahir Hj Wan Yussof (UMT)*; Muhammad Suzuri Hitam (UMT); Ezmahamrul Afreen Awalludin (UMT); Nur Baini Ismail (UMT); Mohd Erman Safawie Bin Che Ibrahim (UMT)*
25	MLPEM	11	A Comparative Analysis of Machine Learning Algorithms for Diabetes Prediction Masnizah Mohd (UKM)*
26	MLPEM	12	Deep Learning Approach for Aspect Category Detection: A Bibliometric Analysis *Imelda Pangaribuan (UMT)*; Arifah Che Alhadi (UMT)*
27	MLPEM	14	Analysis of Wavelet-Based Features for Identifying Similarities in Turtle Scute Patterns

			Wan Nural Jawahir Hj Wan Yussof (UMT); Mohd Erman Safawie Bin Che Ibrahim (UMT); Muhammad Suzuri Hitam (UMT); Ezmahamrul Afreen Awalludin (UMT); Siti NurFarahim Shaharudin (UMT)*
28	MLPEM	26	Exploring the Intelligence of AI Through Applying the Mechanism of Gravity in Mind Upon AI *Lulu GAO (RORO)**
29	MLPEM	30	Classification to Diagnose Stroke using Orange Data Mining *Wartika Wartika Wartika (Indonesian Computer University)**
30	MLPEM	31	Strategic Selection and Design Of The First Auction Item: Analyzing Auction Dynamics Through Motion in Mind and Potential Reinforcement Energy *Siqi Li (Japan advanced institute of science and technology)*; Mohd. Nor Akmal Khalid (Universiti Kebangsaan Malaysia); Hiroyuki Iida (Japan advanced institute of science and technology)*
31	MLPEM	32	Can AI Resign in An Appropriate Position? *Shize Pan (Japan Advanced Institute Of Science And Technology)*;*
32	MLPEM	33	Analyzing Indonesian Twitter Data using Feature Extraction and Machine Learning *Suhaila Zainudin (Center for Artitificial Intelligence Technology)**
33	MLPEM	36	Overview of Liver Fibrosis Detection Method using Machine Learning Approaches *Muhammad Tanveer Meeran (Universiti Malaysia Terengganu)*; Ashanira Mat Deris (UMT); Farizah yunus (UMT); Ahmad Karim (BZU Multan)*
34	MLPEM	38	Deep Learning for Overlapping Objects Detection with Noise: A Bibliometric Analysis *Rozniza Ali (UMT)*; Hashim Rosli (UMT)*
35	MME	28	Best Proximity Point Results for Fuzzy Z-Proximal Contractions In Fuzzy Metric Spaces *Koon Sang Wong (UMT); Zabidin Salleh (UMT)*; Utkir Nematovich Kuljanov (Samarkand State University)*
36	MME	39	Mathematical Modelling of Prey-Predator Dynamics: A Systematic Literature Review *Ummu Atiqah Mohd Roslan (UMT)*; Muhamad Fairus Noor Hassim (UMT); Wan Siti Noor Sofea Wan Sofea (UMT)*
37	MME	49	On the Approximation Algorithms for Solving Riccati Differential Equations using Piecewise Constant Argument Method *Mukhiddin Muminov (Samarkand State University); Zafar Z Jumaev (Samarkand State University); Zabidin Salleh (UMT)**

SPECIAL THANKS

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Micro Ocean Enterprise