

ENGINEER RESILIENCE FOR A CHANGING WORLD:

Building Future-Proof Cities, Infrastructure & Engineers

CONFERENCE (DAY 1) Date: September 23, 2026 (Wednesday) Venue: Mardhiyyah Hotel & Suites, Shah Alam Malaysia Time Zone (+8)		
Time (MYT, UTC+8)	Event	
07:30 – 08:00	REGISTRATION (Level 1)	
08:00 – 08:30	Arrival of Guest of Honor	
08:30 – 09:15	OPENING CEREMONY (Rebana Hall – Level 1) Link: https://www.youtube.com/live/tbA4olzO3Xo	
	08:30 – 08:35	National Anthem of Malaysia - NEGARAKU
	08:35 – 08:40	Doa Recitation
	08:40 – 08:50	Welcoming Speech Prof. Ir. Ts. Dr. Che Khairil Izam Che Ibrahim Dean, Faculty of Civil Engineering, Universiti Teknologi MARA (UiTM) Shah Alam
	08:50 – 09:00	Officiating Speech Prof. Dr. Ismie Roha Mohamed Jais Assistant Vice Chancellor (Strategic Communications) Universiti Teknologi MARA (UiTM) Shah Alam
	09:00 – 09:15	Montage Presentation Token of Appreciation Photo Session
09:15 – 10:00	KEYNOTE ADDRESS 1: Professor Dr. Srinath Perera (Western Sydney University, Australia) Digital Approaches to Sustainability and Circular Economy Moderator: Prof. Ir. Dr. Sheila A/P Belayutham Link: https://www.youtube.com/live/tbA4olzO3Xo	

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10:00 – 10:30	MORNING BREAK				
10:30 – 13:00	PARALLEL SESSION 1				
Time	Session A (Physical)		Session B (Online)		Session C (Online)
	Sustainable Environment & Water Resources (1)		Ground and Transportation Systems (1)		Smart & Resilient Infrastructure (1)
	Rebana Hall Chairperson: Ir. Ts. Dr. Nurul Fariha Lokman Link: https://www.youtube.com/live/tbA4olzO3Xo		Virtual Room 1 Chairperson: Dr. Mohd Izzat Joohari Link: https://meet.google.com/hvz-rtuy-mqi		Virtual Room 2 Chairperson: Dr. Mazlina Mohamad Link: https://meet.google.com/mwu-eico-xnh
10:30 - 10:45	20	Nur Azizah Affandy (Universitas Islam Lamongan, Lamongan, Indonesia) <i>Enhancing Meteorological Drought Forecasting Using Multi-Scale EDI and Temperature-Based Causal Regression in Jeroan Sub-Watershed</i>	5	Yin Nan (He Nan College of Transportation, China) <i>A Review of the Professional Competencies of Prefabrication Personnel for Segmental Girders in Prefabricated Bridge Construction</i>	41 Sujat (University of Jember, Indonesia) <i>Hybrid Metaheuristic–Machine Learning Models for Sustainable Concrete Mix Design: A Systematic Literature Review on the Trade-Off Between Compressive Strength, Cost, and Durability</i>
10:45 - 11:00	26	Invited Speaker: Entin Hidayah (Universitas Jember, Indonesia) <i>Flash Flood Risk Assessment for Mitigation Strategies in Micro-Watersheds</i>	23	Haslinda Binti A Karim (UiTM Shah Alam, Malaysia) <i>Performance of Polyurethane Polymeric Coating on Slope Surface: Evaluation of Erosion Control, Surface Strength, and Water Retention under Natural Rainfall Conditions.</i>	42 Hari Pranoto (University of Jember, Indonesia) <i>Toward a Sustainable Infrastructure Maturity Assessment Framework: A Systematic Bibliometric Review of Maturity-Oriented Research in Civil Engineering</i>
11:00 - 11:15	34	Nehreen Majed (North South University, Bangladesh) <i>Advancing Circular Economy in Bangladesh's Coastal Water and Waste Systems: A Critical Synthesis and Conceptual Framework</i>	28	Willy Kriswardhana (Universitas Jember, Indonesia) <i>Gender differences in bus stop satisfaction</i>	68 Taufiq Ilham Maulana (Universitas Muhammadiyah Yogyakarta, Indonesia) <i>Seismic Performance of RC Buildings with Variations in Natural Period, Earthquake Source Type, and Geographic Location Based on the Indonesian Seismic Hazard Map</i>
11:15 - 11:30	43	Ng Jing Lin (UiTM Shah Alam, Malaysia) <i>Assessment of Rainfall Trends and Variability in the Kelantan River Basin</i>	31	Htet Aung Lwin (INTI International University, Malaysia) <i>The Study of Flood Resilience Assessment in Bago Region, Myanmar</i>	73 Shahriar Tawsif (Chittagong University of Engineering and Technology, Bangladesh) <i>Sustainable ECC-Inspired Fiber-Reinforced Cementitious Composites Incorporating Ladle Furnace Slag, Recycled Brick Powder, and Waste Glass Sand</i>

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11:30 – 11:45	47	Musmuliadi Kamaruding (UiTM Shah Alam, Malaysia) Integrated Strategies for Managing Construction Challenges in Water Treatment Plant Projects: Evidence from Practitioner Experiences in Malaysia	35	Dwi Ratnaningsih (Universitas Jember, Indonesia) Integrating roadworthiness and traffic performance for urban road assessment under high traffic demand	76	Taufiq Ilham Maulana (Universitas Muhammadiyah Yogyakarta, Indonesia) Comparative Evaluation of Nonlinear Concrete Constitutive Models on the Seismic Performance of Vertically Irregular Setback Buildings
11:45 – 12:00	49	Tesema Eylachew Zewda (INTI International University, Malaysia) Assessing Data Integration and Institutional Coordination in Sustainable Resource Planning for Mass Housing Developments in Addis Ababa	8*	Abeykoon Mudiyansele Akila Thenuka (Universiti Tunku Abdul Rahman, Malaysia) Deterrence-Based Traffic Enforcement and Speeding Compliance: Drivers' Perceptions in Malaysia	10	Kuan Woei Keong (UiTM Pulau Pinang, Malaysia) Improving Accuracy and Response Time in Pavement Maintenance: A Comparative Study of Smartphone-Based and Manual Defect Reporting
12:00 - 12:15			2*	Muhammad Shukri Bin Yusmera (East Marine Works Sdn. Bhd., Malaysia) Stabilisation of Dredged Marine Soils with Polymer-Modified Cementitious (PMC) Binder for Sustainable Backfill Applications	12	Tey Li Sian (UiTM Pulau Pinang, Malaysia) Micro-Surfacing as a Thin-Layer Corrective Strategy to Prevent Reflective Cracking in Asphalt Pavements
12:15 - 12:30					14	Invited Paper: Abbas Ahmed Abduljabbar (Near East University, Turkey) Effect of Lignin on the Rheological and Microstructural Properties of Asphalt Binder
12:30 - 12:45					15	Invited Paper: Mohammed Mudhafar Alhasani (Near East University, Turkey) Evaluation of the Rheological and Morphological Properties of Asphalt Binder Modified with High-Density and Low-Density Polyethylene
12:45 - 13:00						
13:00 – 14:00	LUNCH BREAK					
14:00 – 14:45	KEYNOTE ADDRESS 2: Professor Dr. Fauziah Ahmad (Universiti Sains Malaysia) Natural Fibre and Geosynthetic as Ground Improvement Techniques for Resilient Infrastructure <i>Moderator: Prof. Madya Ir. Dr. Ismacahyadi Bagus Mohamed Jais</i> Link: https://www.youtube.com/live/MCJ8Mhb8bEI					
14:45 – 17:00	PARALLEL SESSION 2					

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Time	Session D (Physical)		Session E (Online)		Session F (Online)	
	Ground and Transportation Systems (2)		Advanced Intelligence in Construction & Geo-mapping (1)		Engineering Education for Environmental Sustainability (1)	
	Rebana Hall Chairperson: Ts. Dr. Aawag Mohsen Alawag Link: https://www.youtube.com/live/MCJ8Mhb8bEI		Virtual Room 3 Chairperson: Dr. Nur Izzati Ab. Rani Link: https://meet.google.com/npi-wvrk-odu		Virtual Room 4 Chairperson: Ir. Dr. Oh Chai Lian Link: https://meet.google.com/zdi-sdzt-gss	
14:45 - 15:00	21	Shafizah Safingi (UiTM Shah Alam, Malaysia) Effect of Hydrated Lime Content on the Stress–Strain Behaviour of Kaolinite Clay	6	Toh Siew Tien (University of Technology Sarawak, Malaysia) The application of Unmanned Aerial Vehicles for health and safety management in Sarawak's construction industry	29	Sheamlah A/P Selamani (INTI International University, Malaysia) Soft Skills and Employability of Quantity Surveying Graduates in Malaysia
15:00 – 15:15	22	Muzamir Bin Hasan (Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia) Screw Weight Sounding: A Quick and Simple Supplementary Test for Standard Penetration Tests in Malaysian Soils	7	Hafizul Hilmi Bin Faizal (University of Technology Sarawak, Malaysia) Internet of Things adoption and its challenges in the construction industry in Sarawak, Malaysia	59	Sheamlah A/P Selamani (INTI International University, Malaysia) Investigating Information Handover and Data Interoperability for BIM-FM Integration in Residential Housing
15:15 – 15:30	53	Muhammad Hafeez Bin Osman (UiTM Shah Alam, Malaysia) Quantitative Analysis of Desiccation Shrinkage in Lead-Contaminated and Uncontaminated Kaolin Clay Using Binary Image Processing	19	Nurul Izzah Binti Nor Azmi (INTI International University, Malaysia) Assessing The Effectiveness of BIM Workflows During Construction Phase Coordination in Large-Scale Residential Developments	78	Weijia Shao (Universiti Tun Hussein Onn Malaysia, Malaysia) Identifying key drivers of public building carbon emissions in Fujian Province, China: a ridge regression-corrected STIRPAT model
15:30 - 15:45	83	Invited Speaker: Md Rabiul Islam (Nagaoka University of Technology, Japan) Impact of Particle Depositional Structure on Liquefaction Resistance and Monotonic Compression Strength of Loose Sand	51	Thandar Soe (INTI International University, Malaysia) Factors Influencing the Adoption of AI-Driven Building Information Modeling Tools in Revit Workflows: A TAM-Based study in Myanmar	79	Weijia Shao (Universiti Tun Hussein Onn Malaysia, Malaysia) Residential Building Carbon Emission Drivers in Fujian Province, China: A Ridge Regression-Corrected STIRPAT Elasticity Analysis
15:45 - 16:00	66	Naida Binti Rosli (Institut Kefahaman Islam Malaysia (IKIM) / Universiti Tun Hussein Onn Malaysia, Malaysia) Development of the Malaysian Driver Anger Scale (MDAS): Evidence from Exploratory and Confirmatory Factor Analysis	61	Sai Myo Han Htun (INTI International University, Malaysia) Experimental Investigation on the Effect of Shear Rate on Shear Strength Parameter of Organic Slit Soil in Kyaukse Township, Northern Shan State, Compared with Malaysian Silty Soil	40	Shreeja Nair (Pandit Deendayal Energy University, India) AI-Driven Transformation of Human Resource Management in Educational Institutions
16:00 – 16:15	75	Noraida Mohd Saim	63	Han Ni Phyo Myat Min	3	Siti Isma Hani Ismail / Zulfairul Zakariah

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		(UiTM Shah Alam, Malaysia) Influence of Compaction Effort on The Electrical Resistivity of Compacted Sedimentary Residual Soil		(INTI International University, Malaysia) Assessing Architect Readiness and Systemic Barriers to 6D BIM-Enabled Sustainable Design in Myanmar's Commercial Building Sector: A Quantitative Investigation		(Universiti Teknologi MARA Cawangan Pulau Pinang) Developing the Environmental and Social Impact Assessment (ESIA) Theoretical Framework for Sustainable Urban and Infrastructure Development in Malaysia via an Integrated Holistic Approach
16:15 – 16:30	80	Invited Speaker: Shaban Ismael Albrka Ali (A'Sharqiyah University) Experimental Evaluation of Asphalt Binders Properties Modified with Geopolymer and Acrylate Styrene Acrylonitrile	64*	Han Ni Phyo Myat Min (INTI International University, Malaysia) Post-Contract BIM Adoption and Systemic Barriers in Low-Cost Housing: Empirical Evidence from Dagon Seikkan Township, Yangon, Myanmar	36	Ratih Indri Hapsari (State Polytechnic of Malang, Indonesia) Balancing Cropping Intensity and Water Availability for Improved Irrigation Service Coverage
16:30 – 16:45	72*	Ahmad Syauqi Bin Md Hasan (UiTM Pulau Pinang, Malaysia) Control Strength Lightweight Mortar Incorporating Recycled Concrete Aggregate (RCA) and Expanded Perlite Aggregate (EPA) for Resilient Infrastructure Applications	65*	Sai Myo Han Htun (INTI International University, Malaysia) A Sequenced Recommendation Framework for Post Contract BIM Improvement in Myanmar's Low-Cost Housing Sector: Quantitative Evidence from Dagon Seikkan Township, Yangon	69	Supriatna Adhisuwignjo (State Polytechnic of Malang, Indonesia) Identifying Key Sustainability Indicators of a Green Campus Infrastructure Using Correlation Analysis and GIS
16:45 – 17:00	67*	Nur Masyitah Binti Osman (UiTM Pulau Pinang, Malaysia) Geotechnical Assessment of Subsurface Instability and Its Impact on Urban Drainage Failure: A Case Study of Sinkhole-Induced Infrastructure Collapse in Kulim	39*	Ahmad Zaki (Universitas Muhammadiyah Yogyakarta, Indonesia) Machine Learning Modeling of Load Transfer Mechanisms in FRP-SWSSC Structures		
End of Day 1						

ENGINEER RESILIENCE FOR A CHANGING WORLD:

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CONFERENCE (DAY 2)

Date: September 24, 2026 (Thursday)

Venue: Mardhiyyah Hotel & Suites, Shah Alam
Malaysia Time Zone (+8)

Time (MYT, UTC+8)	Event					
08:30 – 09:15	KEYNOTE ADDRESS 3: Professor Dr. Saroj Mandal (Jadavpur University, India) Self-healing as Preventive Repair of Concrete Structures Moderator: Prof. Ir. Dr. Hamidah Mohd Saman Link: https://www.youtube.com/live/sjvTGO8hZWw					
09:15 – 10:00	KEYNOTE ADDRESS 4: Ir. Ts. Gs. Dr. Safari Hj. Mat Desa (Deputy Director, Water Research Institute of Malaysia (NAHRIM)) Innovation Synergy, Patented Products & NAHRIM Smart Technology for National Water Resilience Moderator: Prof. Ir. Dr. Lee Wei Koon Link: https://www.youtube.com/live/sjvTGO8hZWw					
10:00 - 10:30	MORNING BREAK					
10:30 – 13.00	PARALLEL SESSION 3					
Time (MYT, UTC+8)	Session G (Physical)		Session H (Online)		Session I (Online)	
	Smart & Resilient Infrastructure (2)		Ground and Transportation Systems (2)		Sustainable Environment & Water Resources (2)	
	Advanced Intelligence in Construction & Geo-mapping (2)		Smart & Resilient Infrastructure (2)			
	Engineering Education for Environmental Sustainability (2)					
	Rebana Hall Chairperson: Ir. Ts. Dr. Yazmin Sahol Hamid Link: https://www.youtube.com/live/sjvTGO8hZWw		Virtual Room 5 Chairperson: Dr. Hazrina Ahmad Link: https://meet.google.com/hxe-gvod-dih		Virtual Room 6 Chairperson: Ts. Dr. Dzulaikha Binti Khairuddin Link: https://meet.google.com/xvr-kyfb-ubc	
10:30 – 10:45	24	Invited Speaker: Nawir Rasidi (State Polytechnic of Malang, Indonesia)	46	Munder Abdullah Mohamed Bilema (Universiti Sains Malaysia, Malaysia)	4	Alauldeen Taher Najm (Ministry of Water Resources, Iraq)

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		Performance Evaluation of Pervious Concrete Incorporating High-Range Water-Reducing Admixture on Compressive and Flexural Performance		Analysis of Time Headway and Speed under Peak and Non-Peak Traffic Conditions on Urban Arterial Roads in Malaysia		Climate-induced flood risks in Basrah due to sea level rise: a 2D HEC-RAS modeling with RCPs
10:45 - 11:00	37	Mohamad Amir Bin Jusoh (UiTM Shah Alam, Malaysia) The Relationship Between Risk Management Attributes and Project Outcomes Across the Construction Project Life Cycle	71	Shahreena Melati Binti Rhasbudin Shah (UiTM Pulau Pinang, Malaysia) Consistency and temperature susceptibility of lignin-modified bitumen as a sustainable material for flexible pavement	13	I Gede Tunas (Universitas Tadulako, Indonesia) The effect of extreme rainfall on the rate of erosion and streamflow in an alluvial river
11:00 - 11:15	48	Hamidah Mohd Saman (UiTM Shah Alam, Malaysia) Strength and hydrophobic behaviour of OPC-hybrid low carbon cementitious materials incorporating polydimethylsiloxane (PDMS) admixture	82	Yesina Intan Pratiwi (Diponegoro University, Indonesia) Spatial-temporal analysis of passenger boarding and alighting at feeder route 3 bus stops in Semarang city	16	Lam Shu Wei (Universiti Malaya, Malaysia) Comparative Analysis of Daily and Monthly Standardized Precipitation Index for Drought Characterization in the Muda River Basin
11:15 – 11:30	54	Abdi Satar Ibrahim Ahmed (UiTM Shah Alam, Malaysia) Exploring the Knowledge, Attitude and Practices (KAP) of Lean Construction in Malaysia: A Systematic Literature Review	81	Ikenna D. Uwanuakwa (Gordion Beton, Turkey) Polymorphic Ant Column Optimizer for Car-Following Model Calibration (PACO-CF)	17	Debby Willar (Manado State Polytechnic, Indonesia) Circular Economy in Construction Projects: A Review of Waste Management Strategy
11:30 – 11:45	27	Gunawan Budiprasetyo (State Polytechnic of Malang, Indonesia) Linguistic Interval-Valued Intuitionistic Fuzzy WASPAS Method for Multi-Criteria Group Evaluation of AI-Assisted Learning Platforms in Environmental Sustainability Education	11	Nur Azzimah Zamri (UiTM Jengka, Malaysia) Workability and Compressive Strength of Clamshell Ash Blended Cement Concrete Containing Spent Garnet as Partial Cement Replacement	32	Adelia Nur Isna Kartikasari (Universitas Jember, Indonesia) SWAT-Based Assessment of Groundwater Recharge under Reforestation-Based Nature-Based Solutions in Bedadung Watershed, Indonesia
11:45 - 12:00	45	Nehreen Majed (North South University, Bangladesh) Integration of Sustainable Development in Engineering Research and Curriculum: Metacognition and Active Learning Opportunities in Blended and Agile Teaching Learning Approach	25	Nurin Iyazi Binti Raman (UiTM Seri Iskandar, Malaysia) How Resilient and Efficient are Green Real Estate Investment Trusts in Malaysia?	52	Rian Mantasa Salve Prastica (The University of Queensland, Indonesia) Nature-based Solutions for urban water management in Indonesia: Outcomes from a systematic literature review
12:00 - 12:15	58	Trias Rahardianto (State Polytechnic of Malang, Indonesia)	30	Htet Aung Lwin (INTI International University, Malaysia)	55	Miradatul Nabilah Muhd Rodhi (UiTM Shah Alam, Malaysia)

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		Integrating Waste Valorization and Geospatial Precision: A Unified QA/QC Framework for Untreated Tire-Modular Pavements		Cyclone Disaster Resilience in Myanmar’s Construction Industry: Lessons from Nargis and Strategies for Climate- Adaptive Building Practices		Physicochemical Performance Evaluation of Coal Bottom Ash as a Sustainable Filter Media for Water Quality Improvement
12:15 - 12:30			9	Wong Shi Yee (University of Technology Sarawak, Malaysia) Preferences of Citizens in Sarawak on Smart Cities Services: Smart Energy and Smart Environment	56	A Irwan Yuswardhana (Universitas Jember, Indonesia) Tsunami Evacuation Route Determination in Puger District, Jember, Indonesia
12:30 – 12:45			57*	Ahmad Zaki (Universitas Muhammadiyah Yogyakarta, Indonesia) Analysis of Reinforcement Corrosion Resistance Mechanisms Based on NDT in Binary Concrete Incorporating Rice Husk Ash	1*	Muhammad Affan Daniel Bin Nor Rizan (Gamuda Berhad, Malaysia) 1-Dimensional Compressibility of Dredged Marine Soils treated with Polymer-modified Cementitious Compound
12:45 – 13:00					70	Norul Wahida Kamaruzaman (Kuala Lumpur University of Science and Technology, Malaysia) Investigating the Workability, Strength, and Thermal Stability of Concrete Incorporating Alum Sludge as Fine Aggregate
13:00 – 14:00	LUNCH BREAK					
14:00 – 15:00	Meet the Emerald’s Editors Moderators: Panelists					
15:30 – 17:00	Closing Ceremony Link: https://www.youtube.com/live/FXVvcdcxL9Y					
	National Anthem of Malaysia - NEGARAKU					
	Award Giving Ceremony					
	Closing Speech by Prof. Ir. Dr. Lee Wei Koon (Chairman EXCEEDS 2026)					
	Closing Montage Presentation					
End of Day 2						

EXCEEDS 2026

International Conference on
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EDucation **S**ustainability

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