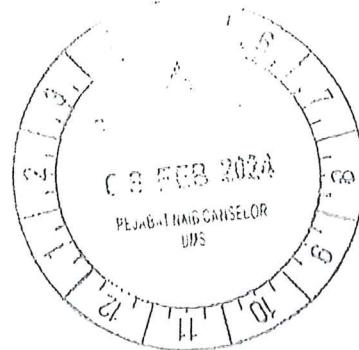




30 January 2024



YBhg Professor Datuk Dr Kasim Hj Mansor  
Vice Chancellor  
Universiti Malaysia Sabah  
Jalan UMS, 88400 Kota Kinabalu  
Sabah

Dear YBhg Professor Datuk Dr Kasim,

**REQUEST FOR SUPPORT IN 8<sup>TH</sup> WORLD ENGINEERING, SCIENCE AND TECHNOLOGY CONGRESS (ESTCON) 2024**

On behalf of Universiti Teknologi PETRONAS, I wish to express my sincere appreciation for accepting delegates from UTP on their visit to Universiti Malaysia Sabah (UMS) on 19 September 2023. The visit discussing on ESTCON2024 was very engaging and fruitful.

Based on the discussions, I would like to officially request for UMS' support for ESTCON2024 in the following areas:

1. Usage of UMS logo (ESTCON2024 supported by UMS).
2. Chair a Parallel Technical Session
3. Participate in ESTCON2024 as a Co-Organiser as per attached brochure
4. 20 Student Volunteers
5. ESTCON2024 Paper Publication in UMS Scopus Journal
6. Post Conference Visit to UMS (Open to all ESTCON2024 delegates)

In appreciation of your support, UTP as the congress organiser will commit to provide significant publicity for UMS during the two-day event.

For more information on registration, paper submissions, participation as non-presenter delegates, and other related matters, please visit our official website at <https://estcon.utp.edu.my/>.

I look forward to UMS's support for this Congress. It is hoped that with the support from UMS, this Congress will help promote Malaysian researchers in the international arena. Your kind support for this forthcoming Congress is very much appreciated.

Thank you.

Yours sincerely,

Professor Dato' Ts. Dr Mohamed Ibrahim Abdul Mutalib, FASc  
Vice Chancellor, Universiti Teknologi PETRONAS  
cum Chairman, World Engineering, Science & Technology Congress (ESTCON) 2024

UNIVERSITI TEKNOLOGI PETRONAS

INSTITUTE OF TECHNOLOGY PETRONAS SDN. BHD.  
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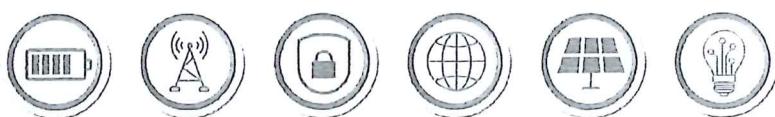
32610 Seri Iskandar, Perak Darul Ridzuan, Malaysia.  
Tel: +600 22 8887 Fax: +605 365 4075 Website: [www.utp.edu.my](http://www.utp.edu.my)

WORLD ENGINEERING, SCIENCE & TECHNOLOGY CONGRESS



FUTURE POSITIONING THROUGH SUSTAINABLE ENERGY, DIGITALISATION & SMART COMMUNITY

SABAH INTERNATIONAL CONVENTION CENTRE (SICC) | 20-21 SEPTEMBER 2024



THE LARGEST CONGRESS OF FIVE (5) SIMULTANEOUSLY-HELD INTERNATIONAL CONFERENCES UNDER ONE ROOF

The World Engineering, Science and Technology Congress (ESTCON) is a biennial Congress organised by Universiti Teknologi PETRONAS (UTP). The Congress is an excellent centre stage for knowledge sharing, intellectual discussions and also networking on various areas of interest; for all academics, researchers, scientists, engineers, interest groups and industry experts from all around the world.

Now in its 8th edition, the Congress is renewed and enhanced to delve deeper into  
'Future Positioning through Sustainable Energy, Digitalisation, and Smart Community'.

As new energy systems emerge, these fields will provide the impetus to pursue more climate-friendly solutions and opportunities in the broader energy space that will create sustainable new values for the world. ESTCON2024 will give deep insights and strengthen the momentum of climate actions to ensure that we remain resilient for the future.



**ICDT**  
International Conference on  
Decarbonization Technology



**ICEM**  
International Conference on  
E-Mobility



**ICESG**  
International Conference on  
Environmental, Social and  
Governance



**ICSC**  
International Conference on  
Smart Cities



**ICSST**  
International Conference on  
Subsurface Technology

# Call for Papers ↴

Interested participants are invited to submit your paper/abstract at  
<https://bit.ly/3ij9Zle> or you may scan this QR code



**Submission Deadline** → **28 February 2024**

**Notification of Acceptance** → **30 April 2024**

**Registration Deadline** → **30 June 2024**

Visit Our Website for more information <https://estcon.utp.edu.my>



Conference Secretariat

icdt2024@utp.edu.my

## About the Conference

The exciting collaboration of Fundamental and Applied Sciences Department and Chemical Engineering Department, Universiti Teknologi PETRONAS (UTP) is pleased to announce the International Conference on Decarbonization Technology (ICDT2024) to be held in Sabah International Convention Centre, Sabah, Malaysia from 10 – 11 September 2024. This is the 8th series of a conference organised under the umbrella of World Engineering, Science and Technology Congress (ESTCON), UTP since 2010.

ICDT2024 conference aims to provide a platform for academics, scientists and industrialists from all around the world to share knowledge/present research findings in all aspects of decarbonization technology. The conference will provide opportunities for the delegates to exchange new ideas and innovations, to establish research initiatives or business relations and find global partners for future collaboration.

### Conference Tracks

**Hydrogen, Solar and Thermal Energy** - The track explores the potential of hydrogen as a clean energy source, delving into its production, storage, and applications in various sectors, such as transportation and power generation. In addition, this track covers on the solar technology highlighting its role in reducing environmental impacts, as well as contributes to advancing clean energy solutions for energy-efficient future.

**Biomass and Biofuel** - This track covers biomass and biofuel related disciplines such as conversions, technologies and applications but also not restricted to biofuel and bioenergy in the world renewable energy transition.

**Carbon Capture and Utilisation** - Carbon capture and utilisation represents an innovative approach to mitigating climate change by transforming CO<sub>2</sub> emissions into useful materials and reducing the overall carbon footprint of industries and energy production. Key topics includes CO<sub>2</sub> Capture Technologies, CO<sub>2</sub> Utilization Pathways, Utilization Products, Storage and Transportation and Environmental Impact and Sustainability.

**Green Processes and Materials** - This track is dedicated to the exploration of environmentally sustainable practices and materials across a wide range of research fields, with a particular emphasis on carbon capture and utilization. Key topics covered in this track encompass catalyst synthesis, material fabrication, renewable energy and resource management, waste reduction and recycling, sustainable supply chains, and the circular economy, among others.

**Carbon Offsets and Accounting** - Carbon accounting involves gathering data on greenhouse gas/ carbon emissions from various sources, such as energy consumption, transportation, and manufacturing processes, providing a clear picture of an entity's carbon footprint which can be balanced out by investing in initiatives that mitigate the environmental impact of greenhouse gas/ carbon emissions or also known as carbon offset.

### Publication Opportunities

All papers presented in the conference will be considered for publication in Scopus Proceeding and the full papers will be invited for the submissions to one of the following special issues:

**Journal:**

- Food Technology and Biotechnology - University of Zagreb  
Impact Factor: 2.4 by Journal Citation Reports (Q3)



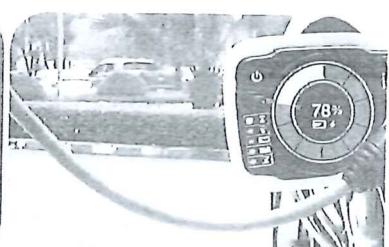


WORLD ENGINEERING, SCIENCE & TECHNOLOGY CONGRESS

**International Conference on E-Mobility**

SABAH INTERNATIONAL CONVENTION CENTRE (SICC) | 10-12 SEP 2024

**ICEM** 2024



Conference Secretariat

[icem2024@utp.edu.my](mailto:icem2024@utp.edu.my)



## About the Conference

In the dynamic landscape of transportation, the International Conference on E-Mobility emerges as a beacon, illuminating the path to a sustainable, efficient, and interconnected future. As the world pivots towards electric transportation, this conference offers a platform where academia and industry converge, fostering innovation, collaboration, and knowledge dissemination. Dive deep into the intricacies of E-mobility, from the energy that powers it to the smart living ecosystems it integrates with. Join us in shaping the future of transportation, where every journey is green, efficient, and transformative.

### Conference Tracks

**Energy** - Latest trends in energy technology, with a focus on its application to E-mobility. Topics will include the development of new battery technologies, the use of renewable energy to power electric vehicles, and the integration of electric vehicles into the grid. Key Topics : Next-gen battery technologies, fast-charging solutions, renewable energy integration, grid management, and energy efficiency.

**Robotic Engineering** - Use of robotics in E-mobility. Key topics include the development of autonomous vehicles, the use of robots for manufacturing and maintenance, and the design of robots that can interact safely with humans and innovations in material handling and transportation.

**Design and Safety** - The design and safety of electric vehicles. Key topics will include the development of new safety features, the use of materials and manufacturing processes to improve safety, and the design of electric vehicles that are comfortable and user-friendly.

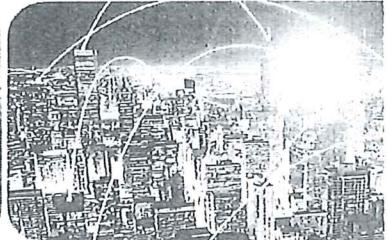
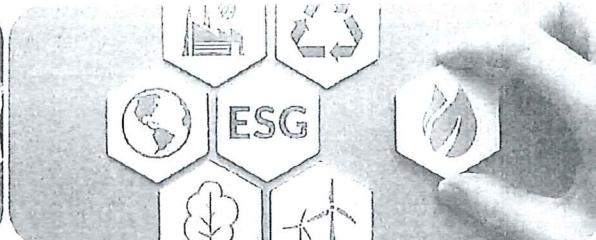
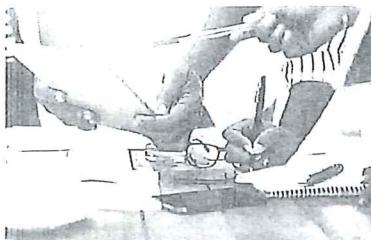
**Autonomous** - The development and deployment of autonomous systems for E-mobility. Topics will include the use of artificial intelligence and machine learning to develop autonomous vehicles, the challenges of testing and deploying autonomous vehicles, and the ethical implications of autonomous vehicles. Key Topics : Sensor technologies, AI-driven decision-making, vehicle-to-vehicle communication, ethical considerations of autonomy, and the integration of electric and autonomous technologies.

**Cyber Security/Smart Living** - The role of E-mobility in smart living. Key Topics : EV-integrated smart homes, urban E-mobility solutions, vehicle-to-grid systems, sustainable urban planning, and the role of E-mobility in reducing urban carbon footprint.

Interested participants are invited to submit your paper/abstract at  
<https://uevenut.utp.edu.my/world-engineering-science-technology-congress-estcon-2024/cfp> or you may scan this QR code



For more information, please visit <http://estcon.utp.edu.my/icem>



Conference Secretariat

ICESG2024@utp.edu.my

+60-125219066/143216595

<https://escon.utp.edu.my/icesg>

## About the Conference

The conference addresses the pressing need for the business world and society at large to assess and tackle socio-economic and environmental risks in line with ESG principles. Conference participants will deliberate on evaluating risks and achieving ESG goals in various domains and context. The conference emphasizes both theoretical and practical approaches to ensure sustainable practices, focusing on the innovation, challenges and critical strategies for circular economy, sustainable living, green investment and digitalisation. The conference highlights research in Management, Economics, Social Sciences, and other related disciplines. We invite conceptual and empirical papers from diverse interdisciplinary domains as well as industry experiences that showcase workable sustainability solutions towards sustainable development goals (SDGs).

### Conference Tracks

**Sustainability Management Practices, Challenges and Innovation** - This track navigates the future by fostering sustainable management and innovation in the emerging Fifth Industrial Revolution (Industry 5.0). This track will embark on transformative journey amidst the dynamic landscape of sustainable management practices to uncover the unique strategies that harmonize profitability with those of environmental and societal well-being in conquering the challenges while igniting the innovative wave that propels us towards a resilient future.

**ESG Strategy in Circular Economy** - This track relates to circular systems that facilitate zero waste. Though it is vital, it is genuinely difficult for people to act accordingly. This track seeks solutions of responsible daily behaviour, and transparent sustainable business practices that can be measured and reported by consumers, employees, investors, or other stakeholders.

**ESG Strategy for Sustainable Living** - This track solicits papers that navigate challenges and conflict in balancing consumption and sustainable living. Innovative ideas for how such conflicts can be resolved while upholding acceptable standards of sustainable living are important to be discussed.

**ESG Investment and Digitalisation** - This track examines these two megatrends on resetting priorities affecting the environment. Combining creative and innovative solutions using evidence on business sustainability, equality, and green initiatives become essential facets of long-term financial performance of corporations. These solutions would need to adhere to the broader SDGs in order to protect both consumers and corporations.

**Society 5.0 and Sustainable Development Goals** - This track discusses a human-centred society that balances economic development with solving social challenges with cutting-edge technologies offered by Industry revolution 4.0. It deliberates how the well-being of all segments of society can be met whilst achieving the United Nations' 17 Sustainable Development Goals.

### Publication Opportunities

**Conference Proceedings Publication:** All accepted papers will be published in Web of Science conference proceedings at no additional cost, aligning with our dedication to fostering an open knowledge exchange within the scholarly community under *Proceedings of International Conference on Environmental, Social, and Governance (ICESG2024)*

**Journal Publication:** We welcome high-quality contributions from researchers and scholars in the field and encourage the submission of innovative and impactful research papers for review and potential publication in:

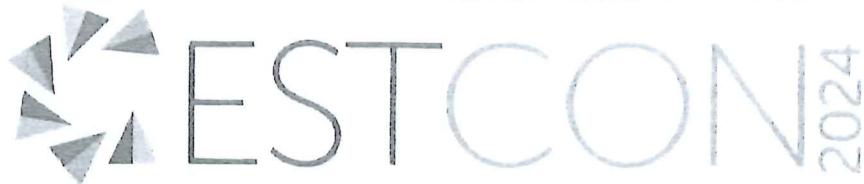
- (1) IIMT Journal of Management - Emerald
- (2) Business Analyst Journal - Emerald
- (3) Platform: Management and Humanities - UTP Press

Additional potential Journal publication opportunities will be uploaded

**Book Series Publication:** There are also potential publications in the World Sustainability Book series, which comprises book chapters published by Springer and is indeed Scopus



Interested participants are invited to submit your paper/abstract at  
<https://event.utp.edu.my/world-engineering-science-technology-congress-estcon-2024/cfp> or you may scan this QR code



FUTURE POSITIONING THROUGH SUSTAINABLE ENERGY, DIGITALISATION & SMART COMMUNITY

WORLD ENGINEERING, SCIENCE & TECHNOLOGY FORGESS | SEPTEMBER 2024

## KEYNOTE

*Navigating the Digital Frontier for Sustainable Energy Transition to Net Zero Carbon by 2050*



Datuk Ir Bacho Pilong  
Senior Vice President  
Malaysia Petroleum Management, PETRONAS

*Tech-Driven Transformation towards Sustainable Smart Southeast Asian Cities*



Tan Sri Abdul Wahid Omar  
Chairman, Public Interest Director and  
Independent Non-Executive Director,  
Bursa Malaysia Berhad

## FORUM

*Aspiration to Action: Global Imperatives Towards Net Zero Carbon Economy*



Ir Mohd Yusri Mohamed Yusof  
Senior Vice President  
Project Delivery & Technology  
PETRONAS



Anders Mælesen  
Senior Vice President  
Energy Industries, Hub Asia  
ABB (Asea Brown Boveri)



Datuk Adzmir Abdul Rahman  
Chief Executive Officer  
Sabah Energy Corporation Sdn. Bhd.

ICDT 2024 | International Conference on Decarbonisation Technology

ICDT 2024

*Decarbonisation Technology for Sustainable Energy*



Ir M Jauhar Hashim  
Head, Focused Area - CCUS  
Project Delivery and Technology  
PETRONAS

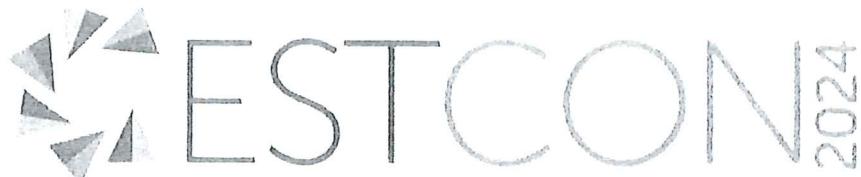


Dato' Leong Kin Mun  
President  
Malaysia Biomass Industries Confederation  
(MBIC)



Ts. Frederick Wong Tsun Klong  
Director of Sustainable Energy  
Energy Commission of Sabah (ECoS)

WORLD ENGINEERING, SCIENCE & TECHNOLOGY CONGRESS

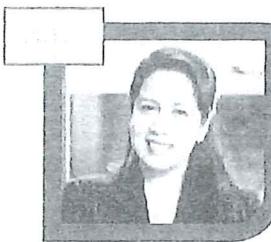


FUTURE POSITIONING THROUGH SUSTAINABLE ENERGY, DIGITALISATION & SMART COMMUNITY

SABAH INTERNATIONAL CONVENTION CENTRE (SICC) 10-11 SEPTEMBER 2024



#### ESG Practice for Sustainable Future



Datuk Seri Sunita Rajakumar  
Chairperson and Director  
Climate Governance Malaysia



Dzulk Dorrel Webber  
Climate Advisor  
State Government of Sabah



Datuk (Dr) Hafsat Hashim  
Independent Non-Executive Director  
Zurich Life Insurance Malaysia Berhad



#### Sustainability of Subsurface Energy & Resources: What the Future Holds for Us



Datuk George Ling Kien Sing  
Consultant and Non-Executive Director Velesto  
Energy Berhad



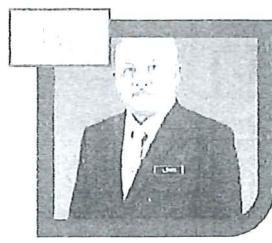
Puan Nazrin Banu Shalih S. Ahmad  
Senior Vice President  
Sarawak Resource Management  
Petroleum Sarawak Berhad (PETROS)



Encl Hazli Sham Kassim  
Vice President  
Development, Upstream Business  
PETRONAS



#### Smart Cities for Sustainable Living



Datuk Wira M Noor Azman Taib  
Ketua Setiausaha, Kementerian Pembangunan  
Kerajaan Tempatan



Phuah Aik Chong  
Chief Executive Officer  
PETRONAS Digital



Raja Azmi Adam  
Country Director Google for Education - Malaysia,  
Singapore & Brunei  
Google

#### E-Mobility: The Path to a Sustainable, Efficient and Interconnected Future.

##### PLENARY

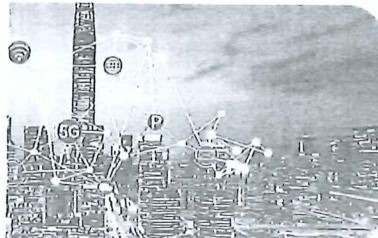
##### ICEM



Encl Mohamad Halil Zubir  
Chief Operating Officer  
Gentai Sdn. Bhd.



Dato' Dennis Chush  
Co-Founder and Executive Director  
Ecclimo Sdn. Bhd.



Conference Secretariat

icsc2024@utp.edu.my



## About the Conference

The Departments of Civil & Environmental Engineering and Computer & Information Sciences jointly welcome you to the first International Conference on Smart Cities (ICSC2024) under the banner of World Engineering, Science & Technology Congress (ESTCON2024). It is recognised that global cities are the frontline targets of climate change. Therefore, ICSC2024 aims to invite researchers to present their works on the five major components of smart cities, namely, smart infrastructure, open data & interconnectivity, smart mobility & transportation, smart governance & citizen engagement, and smart environment & sustainability. The goal of such components is to optimise city functions and to promote economic growth together with improving the quality of life for citizens by using smart technologies and data analysis. The value lies in how technology is used rather than how much technology is available. Information and Communication Technologies (ICT) is vital to improving operational efficiency and sharing information for better governance and citizen welfare in a smart city.

## Conference Tracks

**Infrastructure and Design** - The scope includes smart cities with innovations in urban settings through digital technology-driven infrastructure and architectural designs for efficient, connected, and sustainable built environments.

**Blockchain and Cyber Security** - Covers algorithms, frameworks, models, etc., related to Cyber Security and Blockchain. Also, application areas like the Environmental Impact for IT Security and the Role of IT in Cyber Crimes.

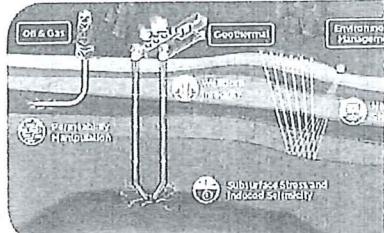
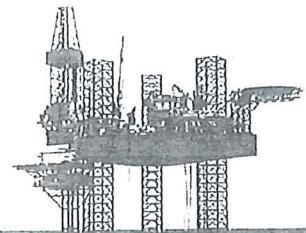
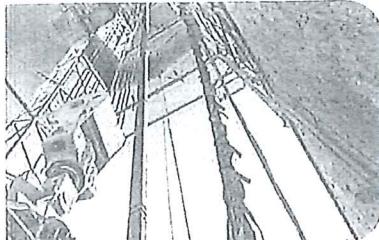
**Artificial Intelligence (AI)** - Covers AI-related algorithms, frameworks, models, etc. and application areas like intelligent information systems, engineering solutions, visualisation, and optimisation.

**Traffic** - Smart waste management uses technology and data to create a more efficient waste industry. It aims to optimize resource allocation, reduce running costs, and increase the sustainability of waste services.

**Waste Management** - This track focuses on approaches to facilitate affordable, multiple modes of transportation, including rapid mass transit systems, on-demand mobility solutions, ride-sharing, vehicle-sharing, and electric vehicles.



Interested participants are invited to submit your paper/abstract at  
<https://event.utp.edu.my/world-engineering-science-technology-congress-estcon-2024/cfp> or you may scan this QR code



Conference Secretariat

✉ icsst2024@utp.edu.my



## About the Conference

International Conference on Subsurface Technology (ICSsT) will focus on the latest advances in technologies for exploring and exploiting the subsurface. This conference is organised by the Geoscience Department & Petroleum Engineering Department, Universiti Teknologi PETRONAS under the banner of World Engineering, Science & Technology Congress (ESTCON2024).

### Conference Tracks

**Imaging Technology** - State-of-the-art imaging technology to image the Earth's subsurface in ways previously impossible and suitable in a variety of applications.

**Energy Transition : Rare Earth Elements and Critical Resources** - Advance technologies to improve the discovery and extraction of critical subsurface resources, including REEs. that is essential to meet the growing demand globally.

**Subsurface Storage** - Promising technology with a wide range of applications in storing energy or materials in the Earth's subsurface, includes energy, hydrogen, carbon dioxide, water, hazardous waste, etc.

**Integrating IOR/EOR with Current Energy Landscape**

**Field Digitalisation**



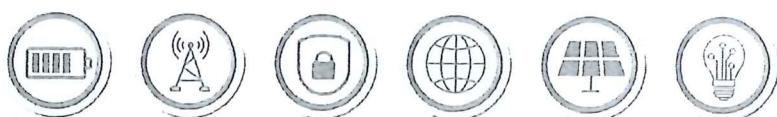
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WORLD ENGINEERING, SCIENCE & TECHNOLOGY CONGRESS



FUTURE POSITIONING THROUGH SUSTAINABLE ENERGY, DIGITALISATION & SMART COMMUNITY

SABAH INTERNATIONAL CONVENTION CENTRE (SICC) | 10-13 SEPTEMBER 2024



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## Call for Paper Tracks

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