



ASEAN AUSTRALIAN ENGINEERING CONGRESS

Engineering Solutions in the Age of Digital Disruption

12th - 14th JULY 2022 HYBRID CONGRESS

AAEC2022 Newsletter Vol. 7

AAEC2022 NEWSLETTER

BACKGROUND

The ASEAN Australian Engineering Congress 2022 (AAEC2022) aims to foster excellence in the practice of "Engineering Solutions in the Age of Digital Disruption". The Congress presents an opportunity for consulting engineers, researchers, designers, contractors, local councils, implementing government agencies and suppliers to discuss engineering research and solutions for achieving Industry 4.0 and digital transformation while maximizing process efficiencies in the industry for optimizing safety and sustainability.

The Congress also provides a forum to review knowledge, disseminate information, promote awareness, facilitate collaboration, and make recommendations. Innovative engineering projects and potential solutions will be presented in the form of technical presentations to encourage constructive discussions and to also provide a networking opportunity amongst university lecturers, students, staff of government implementing agencies and practicing consulting engineers.

THEME:
Engineering Solutions in the Age of Digital Disruption

THE ORGANISERS



ENGINEERS AUSTRALIA

Co-Organiser:



Event Partner:



Zettabyte Sponsor:



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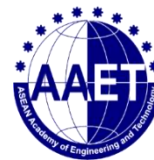


Australian Government



Springer

Australian Trade and Investment Commission



ASSOCIATION OF CONSULTING ENGINEERS MALAYSIA (SARAWAK BRANCH)



<https://www.aaec2022.org/theme.php>

Engineering Computing

- Big Data
- Data Analytics
- Internet of Things
- Cloud Computing
- Mobile Computing
- High-Performance Computing

- I. Network, Communication and Cyber security
- Network of Machines, Products, and Systems
 - Mobile Technologies and Platforms (3G/4G/5G)
 - Wireless/Real-Time Communications
 - Communication Protocols
 - Open Spectrum Solutions
 - Data Security and Privacy

- II. Artificial Intelligence and Machine Learning
- Neural Network
 - Fuzzy Logic
 - Deep Learning
 - Augmented and Virtual Reality
 - Image Processing
 - Video Analysis

- III. Automation and Sensors
- Advanced Robotics and Automation
 - Autonomous Robots
 - Factory Automation
 - Design Automation
 - Sensor Technology
 - Sensing Network

- IV. Materials Science and Manufacturing
- Smart and Advanced Materials
 - Additive Manufacturing
 - 3D Printing Technology
 - Advanced Manufacturing Process
 - Integration of Sensors
 - Mechanical Systems

- V. Smart Energy and Cities
- Renewable Energy
 - Smart Energy Consumption
 - Engineering and Construction
 - Transportation
 - Smart Factory

- VI. Simulation and Optimization
- Building Information Modelling
 - Process Planning Simulation
 - Simulation of Networks
 - Real-Time Data Optimization
 - Engineering Simulations

- VII. Education 4.0
- Authentic Learning Experiences
 - Digital Literacy, Connectivity and Equity
 - Teaching Transformed
 - Gamification and Assessments Re-imagined
 - Teaching with AR, MR and XR

CALL FOR PAPERS/PRESENTATIONS

Important Dates

| | |
|----------------------------------|-----------------------------|
| 31st May 2022 | Submission of papers |
| 30th June 2022 | Acceptance of papers |

Technical Papers Committee Chair: Assoc. Prof. Ir. Basil Wong (twong@swinburne.edu.my)

We are happy to announce that the AAEC2022 conference proceedings will be Scopus-indexed under Springer's Lecture Notes series.

ORGANIZING COMMITTEE

Chairman: Ir. Dennis Ong (Engineers Australia)
Deputy Chairman: Prof. Su Hieng Tiong (Swinburne)
Secretary: Dr. Choo Chung Siung (Swinburne)
Treasurer: Dr. Daniel Kong (Monash University)
Assistant Treasurer: Dr. Elammaran Jayamani (Swinburne)

Committee Members:

- Prof. Wallace Wong (Swinburne)
- Assoc. Prof. Basil Wong Tung Liang (Swinburne)
- Mr. Astley Pung (Engineers Australia)
- Dr. Khairul Hafiz Bin Sharkawi (SDEC)
- Mr. Hazwan Bin Razak (SDEC)
- Ms. Nur Hartini Mardan (SDEC)
- Ms. Lelia Sim (SDI)
- Ms. Rosalind Wong (SDI)

SPEAKERS

| WELCOME SPEECH | KEYNOTE SPEAKERS | | |
|---|--|---|---|
|  <p>Ir. Dennis Ong AAEC 2022 Organising Chairman</p> |  <p>Mr. Paul Sanda Minister-Counsellor (Commercial) and, Senior Trade & Investment Commissioner, Malaysia & Brunei, Australian Trade & Investment Commission (Austrade)</p> |  <p>Dr. Nick Fleming National President and Chair of Board Engineers Australia</p> |  <p>Prof. Tan Sri Dato' Ir. Dr. Chuah Hean Teik President, ASEAN Academy of Engineering and Technology</p> |
| Plenary 1: Industry 4.0 And Future Technologies | | Plenary 2: The Internet of Things, Network Communication and Cybersecurity | |
|  <p>YBhg. Dato' Ir. (Dr.) Lee Yee Cheong AAEC 2022 Congress Advisor</p> |  <p>Prof. Jugdutt (Jack) Singh Chief Scientist and Chief Advisor Sarawak Multimedia Authority</p> |  <p>Dr. Mohamed Sulaiman Sultan Suhaibuddeen Head, Technology Strategy, Digital Nasional Berhad</p> <p>Plenary 1:</p> |  <p>Dr. Ali R. Ebadi Advisor to Board of Directors, MEASAT Satellite Systems Sdn. Bhd.</p> <p>Plenary 2: The Internet of Things, Network Communication, and Cybersecurity</p> |
| Plenary 2: The Internet of Things, Network Communication And Cybersecurity | | Plenary 3: Artificial Intelligence & Automation in IR4.0 | |
|  <p>Prof. Ir. Ts. Dr. Al-Khalid Bin Haji Othman Deputy Chief Scientist & Deputy Chief Advisor Sarawak Multimedia Authority (SMA)</p> |  <p>Mr. Lavindar Singh Jay Solution Architect, Xperanti IoT Sdn Bhd</p> |  <p>Professor Dr. Narayanan A/L N. Kulathu Ramaiyer Director, Institute of Social Informatics & Technological Innovations, UNIMAS</p> |  <p>Dr. Ishkandar Bin Baharin President, Malaysia Robotics and Automation Society (MyRAS)</p> |

| Plenary 3: Artificial Intelligence & Automation in IR4.0 | Plenary 4: Smart Energy, Cities, and Factories | | |
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|  Mr. Yogesh Agarwal Director, Solution Architecture, GE Digital |  Mr. Prem Kumar Menon Head, Enterprise Strategy, Digital Nasional Berhad |  Mr. Philip Chan Kok Leong Director, Ting Heng Energy Consultancy Pte. Ltd. |  Ts. Mazli Bin Mustaffa Chief Executive Officer, Sarawak Metro |
| Plenary 5: Digital Construction for IR4.0 | | Plenary 6: Education 4.0 | |
|  Mr. Ken Lee Director, Aurecon Group Pty. Ltd. |  Mr. Andy Tiong Meng Jun Project Planning Management Consultant, PCSS Consultancy Sdn. Bhd. |  Professor Dr. ML Dennis Wong Deputy Provost, Heriot-Watt University Malaysia |  Professor Dr. Nor Aziah Alias Professor of Teaching and Learning Universiti Teknologi MARA (UiTM) |

TENTATIVE PROGRAMME



Day 1 - 12 July 2022 (Tuesday)

| | |
|---|--|
| 8.30am | Registration/Arrival of Participants/Guests (Audio/Video Checks for Presenters) |
| 9.00 am | Welcome Address by Ir. Dennis Ong, Chairman, Organising Chairman of AAEC2022 |
| Thought Leadership Forum on IR4.0 and 5G in Malaysia | |
| 9.05am | Chair: Prof. Lau Hieng Ho, Pro Vice-Chancellor and Chief Executive of Swinburne University of Technology Sarawak Campus Under this forum, industry leaders such as DNB, Sarawak Multimedia Authority/Sarawak Digital Economy Corporation (SMA/SDEC) and the Malaysia Communications and Multimedia Commission to share their thoughts on the implementation of 5G as the key enabler for Industry 4.0 in Malaysia. The forum will delve into the key prospects of 5G, challenges and issues and how 5G is made possible in Malaysia and Sarawak. |
| 9.10am | Digital Nasional Berhad |
| 9.40am | Ts. Hamadlan Hamdan |

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| | Chief Technology Officer, Sarawak Digital Economy Corporation (SDEC) |
| 9.55am | Dr. Zaidi Abdul Razak General Manager, Sarawak Multimedia Authority (SMA) |
| 10.05am | Malaysian Communications & Multimedia Commission (MCMC) Sarawak |
| 10.20am | Questions and Answers session (15 mins) |
| 10.35am | Refreshments (15 mins) |
| Plenary 1: Industry 4.0 and Future Technologies | |
| 10.50am | Chair: Ir. Dennis Ong In this plenary, the current state of Industry 4.0 (IR4.0) implementation and its associated benefits and advantages in various industry sectors will be the main discussion. Stories of successful implementations of IR4 and how they have shaped the world in terms of creating smart future will be shared by the invited plenary speakers. In addition, the future of IR4.0 and how it is affecting the world in leading to future cut-edge technologies will also be in the discussions. |
| 10.55am | Dato' Ir. Dr. Lee Yee Cheong (Virtual) AAEC2022 Congress Advisor |
| 11.25am | Professor Jugdutt (Jack) Singh Chief Scientist & Chief Advisor, Sarawak Multimedia Authority (SMA) |
| 11.55am | Dr. Mohamed Sulaiman Sultan Suhaibuddeen Head, Technology Strategy, Digital Nasional Berhad |
| 12.25pm | Questions and Answers session (15 mins) |
| 12.40 pm- 1.25 pm | Lunch (DNB Video Branding) |
| Plenary 2: The Internet of Things, Network Communication, and Cybersecurity | |
| 1.25pm | Chair: Ts. Hamadlan Hamdan, Chief Technology Officer, SDEC The internet of things (IoT) has been around for decades. What is the critical role that is played by the IoT in the IR4? How can it further enhance IR4? One of the major concerns with the IoT is cybersecurity. In general, industries are concerned with how these data are being stored securely and handled over the computing clouds. These questions will be the main focus in this plenary session. |
| 1.30pm | Prof. Dr. Ir. Al-Khalid Bin Othman Deputy Chief Scientist, Sarawak Multimedia Authority |
| 2.00 pm | Dr. Ali Ebadi Advisor to the Board of MEASAT |
| 2.30pm | IoT – Why We Need To Embrace It Mr. Lavindar Singh Jay Solution Architect, Xperanti IoT Sdn Bhd |
| 3.00pm | Questions and Answers session (15 mins) |
| Opening Ceremony | |
| 3.30 pm | Arrival of YAB Datuk Patinggi Tan Sri (Dr) Abang Haji Abdul Rahman Zohari bin Tun Datuk Abang Haji Openg, Premier of Sarawak |
| 3.35 pm | Welcome Speech by Ir. Dennis Ong, Organising Chairman AAEC 2020 and Prof. Lau Hieng Ho, Pro Vice-Chancellor and Chief Executive of Swinburne University of Technology Sarawak Campus |

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| 4.00 pm | Opening Remarks by YAB Datuk Patinggi Tan Sri (Dr) Abang Haji Abdul Rahman Zohari bin Tun Datuk Abang Haji Openg, Premier of Sarawak |
| Keynote Presentations | |
| 4.20 pm | Keynote Presentation: Mr. Paul Sanda, Minister-Counsellor (Commercial) and, Senior Trade & Investment Commissioner, Malaysia & Brunei, Australian Trade & Investment Commission (Austrade) |
| 4.40 pm | Keynote Presentation: Dr. Nick Fleming, National President and Chair of Board Engineers Australia (Virtual) |
| 5.00pm | Keynote Presentation: Prof. Tan Sri Dato' Ir. Dr. Chuah Hean Teik, President, ASEAN Academy of Engineering and Technology (Virtual) |
| 5.20pm | End of Opening Ceremony |
| | Refreshments |

Day 2 – 13 July 2022 (Wednesday)

| | | |
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| 8.30am | Arrival of Participants (Audio/Video Checks for Presenters) | |
| Plenary 3: Artificial Intelligence & Automation in IR4.0 | | |
| | Chair: TBC | |
| | What are the current benefits and obstacles in adopting artificial intelligence (AI) for IR4? How does AI assist in realizing the full potential of IR4? How can it be coupled with automation processes in the industry in the realm of IR4? These will be among the questions to be addressed by the invited speakers in the plenary session. | |
| 9.00am | Towards Humanised AI Technologies Professor Dr. Narayanan A/L N. Kulathu Ramaiyer Director, Institute of Social Informatics & Technological Innovations, Universiti Malaysia Sarawak (UNIMAS) | |
| 9.30am | Standardization and Global Robotics Exchange Framework for IR4.0 Dr. Ishkandar Bin Baharin President, Malaysia Robotics and Automation Society (MyRAS) | |
| 10.00am | Role of AI / ML / Digital Twins in Digital Transformation and Energy Transition Mr. Yogesh Agarwal Director, Solution Architecture, GE Digital | |
| 10.30am | Questions and Answers session | |
| 11.00am | Break | |
| Technical Session 1 | | |
| 11:20am | Track: Artificial Intelligence and Machine Learning The Potential Impact of AI and Automation in collaboration with the workforce: The Human Machine Symbiosis Dr. LING Chen Hoe Engineers Australia | Track: Smart Energy and Cities Development of an easily retro-fitted smart adaptive vent for efficient cooling Mr. Phil Chan Siew Thong Swinburne University of Technology Sarawak Campus |

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| 11:40am | Track: Artificial Intelligence and Machine Learning The application of deep learning to pipe jacking in highly weathered geology Dr. Chung Siung CHOO Swinburne University of Technology Sarawak Campus | Track: Smart Energy and Cities A Proposed BIM-Based Construction Project Management Framework Integrated with Scheduling and Cost Estimation Dr. Victor Bong Nee Shin Swinburne University of Technology Sarawak Campus |
| 12:00pm | Track: Artificial Intelligence and Machine Learning Intent and Context Understanding for Improvement of Search Engine Results on Social Networks Mr. Abdullah Donanim Haber | Track: Smart Energy and Cities Smart & Sustainability City Ecosystem Ir. Kesavan Jaganathan Director - Freelance Consultant |
| 12.20pm | Lunch Sarawak Metro Video | |
| Technical Session 1 (Cont'd) | | |
| 1:20pm | Track: Network, Communication and Cybersecurity The EWMA Technique Application in Perceptual Speech Quality Control Dr. Ahmad Zamani Jusoh International Islamic University Malaysia | |
| 1:40pm | Track: Network, Communication and Cybersecurity The CUSUM Technique Approach in Perceptual Speech Quality Control Dr. Ahmad Zamani Jusoh International Islamic University Malaysia | |
| 2:00pm | Sarawak Metro | |
| 2.20pm | Break Virtual Tour of the TEGAS Digital Village (Support and Facilities Available) - Video | |
| Plenary 4: Smart Energy, Cities, and Factories | | |
| | Chair: TBC Through the IR4 adoption, smart energy consumption can be implemented in various industry devices and systems. The couplings between cyber-physical systems, automation, and IoT can lead to the birth of smart cities and factories. In this plenary session, strategic moves implemented by local governments in building smart energy usage, cities, and factories in Sarawak or Malaysia will be shared by the invited speakers. Discussions on the current preparation towards the adoption of IR4 locally as well as on how the IR4 can benefit both local industries and international partners will be the main focus in the session. | |

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| 2:40pm | Sarawak Energy Berhad (SEB) |
| 3:10pm | Smart Transportation System in Sarawak – The KUTS Ts. Mazli Bin Mustaffa Chief Executive Officer, Sarawak Metro |
| 3:40pm | Mr. Prem Kumar Menon Head, Enterprise Strategy, Digital Nasional Berhad (DNB) |
| 4:10pm | Smart Sustainable Solution on Digitalisation for the Optimization of Building Energy Efficiency Performance Mr. Philip Chan Kok Leong Director, Ting Heng Energy Consultancy Pte. Ltd. |
| 4:40pm | Questions and Answers session |
| 5:10pm | Conclusion of Day 2 |

Day 3 – 14 July 2022 (Thursday)

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| 8.30am | Arrival of Participants (Audio/Video Checks for Presenters) | |
| Plenary 5: Digital Construction for IR4.0 | | |
| | <p>Chair: TBC</p> <p>In this plenary session, the discussion focuses on how the implementation of digital technologies has improved the construction processes and revolutionized the industry. Digital technologies such as Building Information Modelling (BIM), 3D printing, augmented and virtual reality (AR & VR), laser scanning, robotics, analytics software, blockchain, digital twins, and internet of things are highly sought after for improving efficiencies or capacities of construction processes. Nevertheless, within the construction industry itself, the transformation effects of using these digital technologies are still not fully understood, especially on connectivity of linking up and synchronizing separate activities in the digitized construction processes. The plenary session also delves into the readiness of digital construction for IR4.0 and how it would impact the industry in ASEAN and Australia.</p> | |
| 9.00am | Mr. Andy Tiong Meng Chun Director, PCSS Consultancy Sdn Bhd | |
| 9.30am | IR4.0 Engineering the Twins Mr. Ken Lee Director, Aurecon Group Pty. Ltd. | |
| 10.00am | Bentley (TBC) | |
| 10.30am | Questions and Answers session | |
| 11.00am | Break | |
| Technical Session 2 | | |
| 11:20am | <p>Track: Smart Energy and Cities</p> <p>Using Unmanned Aerial Vehicles for Traffic Flow Analysis at Large Multi-Lane Roundabout Dr. Elizabeth Chong Eu Mee Swinburne University of Technology Sarawak Campus</p> | <p>Track: Education 4.0</p> <p>Geoeducation 4.0 Augmented reality in the new reality Dr. Chung Siung CHOO Swinburne University of Technology Sarawak Campus</p> |

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| 11:40am | Track: Smart Energy and Cities Minimizing Life Cycle Impacts of Construction Waste Through BIM-LCA Integration Mr. SAMWEL ABUCHI MREMA Swinburne University of Technology Sarawak Campus | Track: Education 4.0 Rapid Transition from Offline to Online: The Teaching and Learning Experience in Engineering Education Dr. Yit Yan KOH Newcastle University Institute of Higher Education Pte. Ltd. |
| 12:00pm | Track: Smart Energy and Cities Transform and Re Use of Existing Assets Mr. Kabi Subramaniam Arup Singapore | |
| 12.20pm | Lunch | |
| Technical Session 2 (Cont'd) | | |
| 2:00pm | Track: Smart Energy and Cities Adoption of modular MEP for the Construction Industry in Singapore Mr. Tan Hee Wee HWT Engineering and Construction Consulting | |
| 2:20pm | Track: Materials Science and Manufacturing Evaluation of Interfacing Shear Strength of Various Codes vs Experimental Results Ir. Dr. Low Hin Foo OSD Alliance @ OSD Consultants (M) Sdn Bhd | |
| 2:40pm | Track: Materials Science and Manufacturing Physicochemical Characteristics of Silico Manganese Slag as A Recycling Construction Material: A Systematic Review Dr. Chai Chang Saar Swinburne University of Technology Sarawak Campus | |
| 3.00pm | Break | |
| Plenary 6: Education 4.0 | | |
| | Chair: TBC The digital industrial revolution has been brought into the classroom, accelerated by the advent of the COVID-19 pandemic. IR4.0 has not only changed the talents needed by the | |

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| | engineering industry; learning has become democratised and more accessible. This leads to learning innovations incorporating IR4.0 tech, i.e. Education 4.0. The traditional educational approaches indeed need a make-over at making students skill-ready for the ever-evolving industrial revolution. Some of the main questions to be addressed in this plenary session are “How does Industry 4.0 affect the education industry, especially in engineering?”, “How can education institutions equip engineering students for IR4.0?”, and “What innovations are there to enhance learning in a digital engineering world?” |
| 3.20pm | Professor Dr. ML Dennis Wong Deputy Provost, Heriot-Watt University Malaysia |
| 3.50pm | Professor Dr. Nor Aziah Alias Professor of Teaching and Learning, Universiti Teknologi MARA (UiTM) & Member, Malaysian Society for Higher Education Policy and Research Development (PenDaPaT) |
| 4.20pm | Ministry of Education, Innovation and Talent Development (MEITD), Sarawak |
| 4.50pm | Questions and Answers session |
| Closing Ceremony | |
| 5:20pm | Closing Remarks by YB Minister of Education, Innovation and Talent Development Sarawak |
| 5:50pm | End of AAEC2022 |

Note: Business Networking session will be available throughout the 3 days Programme

REGISTRATION FEE

| Categories | Presenter (with paper submission)* | Presenter (with no paper submission) | Delegates |
|--------------------------------------|--|--|-----------|
| Early Bird (by 30 th May) | RM800 | RM300 | |
| Normal | RM950 | RM400 | RM400 |
| Supporting Organisations | - | RM250 | RM250 |
| Group Rate for Technical Papers | RM650 per pax (minimum of 4pax) | | |

**Papers submitted will undergo a review, and will be considered for compilation in indexed conference proceedings.*

**Papers submitted to the Smart Cities track will be considered for a special issue under ICE's Smart Infrastructure and Construction.*

SATELLITE HUB

Tabung Ekonomi Gagasan Anak Sarawak (TEGAS) Digital Village (TDV) located at Sama Jaya High Tech Park is the confirmed location for the Satellite Hub.

Satellite hub will be subjected to SOPs issued by the Sarawak Government.

Important note: The participants at the satellite hub will need to sign a liability waiver in view of the Covid-19 pandemic.

SPONSORSHIP PROSPECTUS DETAILS

| | <i>Hexabyte Sponsor</i> | <i>Terabyte Sponsor</i> | <i>Gigabyte Sponsor / Exhibitor</i> |
|---|-------------------------|-------------------------|-------------------------------------|
| | RM8000 | RM6000 | RM 2500 |
| Congress Registration | 10 pax | 6 pax | 4 pax |
| Physical table tops display at satellite hub | ✓ | ✓ | |
| Advertisements on the congress website /virtual congress platform (hybrid) | ✓ | ✓ | ✓ |
| Recognition as a sponsor | ✓ | ✓ | |
| Recognition as an exhibitor | ✓ | ✓ | ✓ |
| Virtual Exhibition Booth space with Live Feed Streaming | ✓ | ✓ | ✓ |
| Electronic banner or logo display, link to corporate website | ✓ | ✓ | ✓ |
| Company logo to be displayed on event virtual lobby (Reception) | ✓ | ✓ | ✓ |
| Full media coverage | ✓ | ✓ | ✓ |
| Networking opportunities | ✓ | ✓ | ✓ |
| Full delegates' list | ✓ | | |
| Featured Lounge Table (top rows) | ✓ | | |
| Post Event Recognition | ✓ | ✓ | ✓ |

| <i>Add On Options</i> | <i>Price (RM)</i> |
|---|-------------------|
| Tea-Break Sponsors at Satellite Hub (per session rate) | 1200 |
| Lunch Sponsors with Lunch Talk at Satellite Hub (per session rate) | 2000 |
| Evening Networking Reception at Satellite Hub | 2000 |
| Sponsorship of a Track / Concurrent Session | 500 |
| Sponsorship of Plenary Session | 1500 |
| Feature Lounge Table on Second Row (Digital) | 500 |
| Feature Lounge Table on Third Row (Digital) | 300 |
| Showcase Session (whole track) | 500 |
| Webinar session sponsor | 500 |

AIRMEET (ONLINE PLATFORM)



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EXHIBITION BOOTH IN AIRMEET

Exhibition Booths:

Visibility at reception, with dedicated booth.
Integrated into Airmeet's own Social Lounge for real-time video networking.

Social Lounge:

The place where participants meet virtually, in real-time.
Pre & post session networking helps your attendees build real connections.

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CONTINUING PROFESSIONAL DEVELOPMENT (CPD) POINTS

- Earn up to 21 hours CPD points from Engineers Australia
- Pending approval of CPD points from Board of Engineers Malaysia (BEM)

OFFICIAL WEBSITE:

www.aaec2022.org



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