Session No.7

**TRACK (1)**

**Auditorium 1, Ground floor, B105**

**Chair:** Dr. Muneer Baig

**Sustainable Manufacturing and Industrial Ecology**


Monitoring Manufacturing Plant Emissions based on Equipment Health Index: A Case Study from Oman Oil and Gas Industry, Khalid Alfarhdi, Hakan Gultekin, and Emad Summad

The Influence of Compaction Pressure in Manufacturing Process to Mechanical and Electrical Properties of LATP Solid Electrolyte, Benjiang Arief, Budiman, Siti Zulakha, Nicholas Putra Rihandoko, Firman Bagja Juangsa, Muhammad Aziz, and Farid Triawan

Green ZnO Nanoparticles using Olive Plant Extract for Environmental Remediation, Fares Chabika

Prediction of bonded strength in a single-layer aluminum joints: artificial neural networks approach, Abdul Aboodl, and Muneer Baig

Multidisciplinary Optimisation of Power Device Sizing to Improved Flight Duration and Weight Reduction of Solar-Powered Aircraft, Bashir Safyanu Danjuma

Session No.8

**TRACK (2)**

**Auditorium 2, 2nd floor, B105**

**Chair:** Dr. Mahmoud Nawar

**Sustainable Construction and Resilient Infrastructure**

Well-confined Concrete Columns Reinforced with BRP and GFRP Rebars under Concentric Loading, Nour Ghazali Aswad, Khaled Obeidat, and Farid Abed


Ground Tire Rubber as an aggregate in concrete – A Review and way forward, Arwa Al-Abri, Muhammed Bilal Wars, Khalifa Al-Jabri, and Kazi Abu Sohel

Sustainable disposal of waste rockwool in the production of normal and lightweight LC3-based high-performance mortars, Khalifa Al-Jabri, and Hamadou Shoukry

Potential and challenges of advanced manufacturing for rammed earth construction, Tamanna Jalali, and Lubalina Soni


Future Trends and Opportunities of Artificial Intelligence and Machine Learning in the Resilience of Interdependent Critical Infrastructure Networks in the Kingdom of Saudi Arabia, Basem Alkhaleel

Building Construction and Carbon emission for Structural frame, Saidur Chowdhury, Danish Ahmed, Samar Demayka, Andi Asiz, and Tahar Ayadat

The Use of InSAR for Monitoring Mechanically-Stabilized Earth Structures to Improve Infrastructure Resilience, Hamzah Al-Hazemi, Andrew Lees, and Sveki Perdikou

Session No.9

**TRACK (3)**

**Hall 1 - A01, B 105, 1st floor**

**Chair:** Prof. Umashankar Subramaniam

**Innovations in Renewable Energy: Powering the Future**

Vibration Control of Offshore Steel Wind Turbines, Maha Hassan, and Adel Abdelnaby

Enhancement of Power Quality in Single Phase Systems using Grid Connected Solar Inverter with AQSG Control, NAMIR, Soojin Suk Hee Kumar, Manoj Kumar M V, Jayaprakash Pychathil, Umashankar Subramaniam, and Sotter Almaktas

Polydopamine-coated carbon nanodots as filler candidates for fuel cell applications, Dian Pernama, Lukman Atmaja, Arif Priyanga, Yahana Ivana Kedang, Mohammad Purwanoto, and Mardi Santos

Real-time Energy Efficient Communication for Large-scale Industrial Internet of Things, Mustafa Khan, Muazam Zakkatu, Thahem Farman, Asad Malik, and Sher Ramzan

Enhancing Sustainable Energy Solutions with Wireless Power Transfer in the Era of Electric Mobility, Moudar Rak, and Walid Dyab

Synthesis and Properties of Imidazole Coated Magnetic Particle as Candidate Material for Polymer Electrolyte Membrane Fuel Cell, Luqman Atmaja, Shri Wafroth, and Hubbi Nashrullah


Enhancing The Quality Of Dye Sensitized Solar Cell Fabricated By Doctor Blade Method Using Hibuscic Sabdariffa (Zobo) Natural Dye, Nuradeen Aliyu Kankan

Session No.10

**TRACK (4)**

**PS Hall, B 101, G Floor**

**Chair:** Dr. Moustafa Nasrallah

**Future Cities: Innovative Approaches for a Sustainable Tomorrow**

A Machine Learning-Driven Model for Predicting the Productivity of Internet of Mechanical Things, Ahmed Sedlik, Moustafa Nasrallah, and Maged Abdallah Esmail

Art Preference Evaluation for Pediatric Healthcare Environment in an Egyptian Children’s Cancer Hospital, Nadia Aboletab, Suzette Aziz, and Ebtesam Elqayzi

Assessment of Low-Cost Housing in an Urban Area of Khartoum State, Sudan, Towards to a sustainability in Urbanism, Zeinab Elhassan, Mona D Abdallael, and Selma Hussein

A Statistical Assessment of Effectiveness of Detection Cameras on Handheld Phone Use While Driving, Nawaf Almowannai

Urban green space for a sustainable urban environment, Monalisah Swain, and Sanika Bahadure

Application Of The Neo-arrival City Design Manifesto Towards Sustainable Urban Developments, Mohammad Fahmy, Basel Essam, Mohamed Elsaleh, and MARWA FAHMY ABDELALIM

The role of the data analytics for establishing intelligent city, Waela M. Metwally, and Vitha Ibrahim

Potable water production from night sky radiation mechanism a model analysis, Ahmed Algobany, Zakarya Kaneesamkandi, and Abdul Sayeed
Concurrent Technical Sessions

Based on The Technical Session Schedule

Session No.11

**TRACK (5)**
1-A13, 1st Floor, B 105

Chair: Dr. Silvia Mazzetto

**Sustainable Built Environment Design: Cultural and Historical Perspectives**

Heritage Sustainable preservation of traditions, Silvia Mazzetto


Affordable Housing strategy as a Pillar of Sustainability. The case of Al Jaradiyah, Riyadh, Monica Moscatelli, and Ranem Abduljabbar

Sustaining the Legacy of Langkasuka through the Architectural Design of Long-roofed Masjids, Noor Hanita Abdul Majid, and Siti Aisyah Binti Muhammad

An Overview of Dust Deposition Effect on Photovoltaic Performance in the Built Environment, Abubaker Younis, Mohamed Idris, Petru Adrian Cotfas, and Daniel Tudor Cotfas

Reshaping Religious Identity in Contemporary Mosque. A comparative analysis in Riyadh, Mariam Maatouk, and Monica Moscatelli

Reconciling Urban Resilience And Increasing Digitization-exploring Opportunities And Threats In Jeddah, Muroj Alghanafi

Building Traditions: Unveiling Hassan Fathy’s Vernacular Wisdom in Contemporary Architecture. Siti Aisyah Binti Muhammad, Noor Hanita Abdul Majid, and Shah Nor Basri

Sustainable Urban Evolution: VR Prototype for Balancing Quality, Transportation Planning and Green Space Preservation in Al Ain City, UAE. Sahera Bleibeh, Boshra Hassan, Namín Abouelkhier, and Nicolas Monje Mejic

Session No.12

**TRACK (6)**
1-A18, 1st Floor, B 105

Chair: Prof. Zlatan Meskic

**Policies, Regulations, and Economics for Achieving SDGs**

Reconciling Sustainability with Competition Laws – Greenhushing, Greenwashing and Sustainability Agreements. Zlatan Meskic

The development of employment relationships through the dynamical processes of employees’ psychological contracts. Maha Alabdulwahed

Investigating the impact of ESG Index Inclusion Announcement on the Stock Market Performance of the Firm: An Event Study. Ajaz Ul Islam

An Innovative Framework for Sustainable Architecture: The challenging case study of Integrating Sustainable Development Goals (SDGs) into Architectural Education in Tunisia. Khansa Dhaouadi

Linking the Path to Zero Hunger: Analysing Sustainable Development Goals Within the Context of Global Sustainability. Smita Sharma, Jolly Sahni, and Rosewine Joy


AI with a Heart: Integrating Emotional Intelligence and Sustainability in Smart Education for 21st Century Learners. Tahira Hoke

Strategic Placement and Sustainable Practices: Unveiling the Impact of Food Trucks on Urban Dynamics in the UAE. Khaula Alkaabi, Kashif Mehrmood

SAUDI ARABIA VISION 2030: THINK SUSTAINABLE: Educate valuably – Develop strategically – Lead participatively. Maria Saadeh