

2nd International Conference on Smart Innovation in Science, Engineering and Technology (SISETECH)

15th-16th November 2023

The College of Engineering at Dhofar University is organizing a two day SISETECH conference in the fourth quarter of 2023. The goal of this conference is to provide an international forum for academics research organizations and industry to share their knowledge, expertise and experience and discuss the latest developments in engineering design and analysis. This event will provide a unique forum for discussion of local and global problems and issues. The conference will include technical sessions, tutorials and poster competitions.

The focus of the SISETECH 2023 conference is engineering design patterns that have unique identifiers and the potential to digitize manufacturing, healthcare, construction and other industries to achieve the goal of sustainability according to the Oman's Vision 2040. SISETECH 2023's inspiration is to provide a full analysis of the various aspects of engineering design. Invited talks will be conducted on cutting-edge advancement in science and engineering.

Mission of the Conference

To provide a leading forum for enthusiastic researchers/ professionals from academia and industry to discuss and share their respective knowledge and experience so that new ideas can be established to address potential challenges in the development of the smart community.

Objectives of the Conference

- To share new findings and results in the advance science and engineering.
- To engage people from different domain and expertise in the collaborative research.
- To equip attendees with the knowledge of latest innovations in their respective domain.
- To motivate and engage engineering students of Dhofar University towards innovation and research.
- To enhance collaboration with International researchers.

Proposed Conference Tracks

The target of the conference is to address research and invite research papers that fall into (but not limited to) one of the following tracks:

Track 1: Advances in Mechanical Engineering

- Acoustics, Dynamics, Vibration, and Control
- Advanced Materials: Design, Processing, Characterization and Applications
- Advanced Manufacturing: CAD, CAM, and CAE
- Energy and Resources
- Thermal Engineering
- 3D and 4D Printing Ideas
- Application of Smart Technology: Machine Learning and Artificial Intelligence

Track 2: Advances in Electrical and Computer Engineering

- Cellular and Broadband Communication (e.g., LTE/LTE-Advanced, 5G, etc.)
- Machine-to-Machine (M2M) Communications
- Networks for Internet-of-Things (IoT)
- Vehicular Networks
- Machine Learning for Wireless Networks
- Smart Grid Systems
- Sustainable Development
- Renewable Energy
- Energy Policy
- Robotics and Artificial Intelligence
- AI Based Electronic Devices for Healthcare

Track 3: Advances in Chemical Engineering

- Green and Clean Energy
- Recent Developments in the Oil and Gas Industry
- Industrial Biotechnology and Bioprocessing
- Renewable Energy and Resources
- Advance Materials and Nanotechnology

Track 4: Advances in Architectural Engineering

- Digital Research in Architectural Practice
- Sustainable Buildings and Computational Design Applications
- Digital Fabrication and Robotics
- Digital Technologies for Cultural Heritage (3D Scanning)
- Interactive and Responsive Environments
- Big Data and Analytics in Architecture
- Material Studies and Innovation
- Parametric and Algorithmic Design
- Digital Research in Architectural Practice
- Smart Cities and Smart Economy Practices

Track 5: Advances in Civil Engineering

- Theory and Advanced Technology of Engineering Structure
- Sustainable Materials, Processes and Eco-Efficient Construction & Technologies
- Design of Earthquake Resistant Structures
- Infrastructure Asset Management
- Modern Construction Materials
- Concrete Repair and Structural Strengthening
- Wastewater Treatment Technologies
- Sustainable Transportation
- Advanced Statistical Models in Traffic Safety

Conference Time Plan

Day 1

- 09:00 – 10:30 Two Keynote Speakers (TBA)
- 10:30 – 11:00 Break
- 11:00 – 13:00 Oral Sessions
- 13:00 – 14:00 Lunch Break
- 14:00 – 16:00 Oral Sessions

Day 2

- 09:00 – 10:30 Two Keynote Speakers (TBA)
- 10:30 – 11:00 Break
- 11:00 – 13:00 Oral Sessions
- 13:00 – 14:00 Lunch Break
- 14:00 – 16:00 Poster Sessions
- 16:00 – 16:30 Closing Ceremony