



IEEE-International Conference on Advanced Materials for Sustainable Clean Energy and Healthcare Technologies 2026 (AMSCEHT-2026)

(Conference with IEEE Record Number #69651)

11-13 September 2026

(Hybrid Mode)

Special Session on

Special Session 13: Next-Generation AI, Cloud, and Quantum Technologies for Smart Materials, Sustainable Energy, and Healthcare Systems

Organized & Co-Chaired by:



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CALL FOR PAPERS

This special session focuses on the integration of next-generation computational technologies such as Artificial Intelligence (AI), Cloud Computing, and Quantum Computing with advanced materials research for sustainable energy and healthcare applications. With the increasing demand for intelligent energy systems, smart materials, and data-driven healthcare solutions, emerging computational approaches play a critical role in accelerating materials discovery, optimizing energy storage and conversion systems, and enabling advanced biomedical technologies. These technologies facilitate high-performance simulations, predictive modeling, and large-scale data analytics to address complex challenges in clean energy production, smart grids, medical diagnostics, and healthcare monitoring.

TOPICS OF INTEREST, BUT NOT LIMITED TO:

This special session invites original research papers, case studies, and review articles on, but not limited to, the following topics:

- Artificial Intelligence for Advanced Materials Discovery and Design
- Machine Learning and Data-Driven Modeling for Energy Storage and Conversion Materials
- Quantum Computing Techniques for Materials Simulation and Molecular Modeling
- Cloud-Based Platforms for Large-Scale Materials and Energy Data Analytics
- AI and Cloud-Enabled Smart Grid and Renewable Energy Optimization
- Block-chain Frameworks for Secure Energy Trading and Healthcare Data Management
- AI-Driven Healthcare Systems and Smart Biomedical Materials

IMPORTANT DATES:

Paper submission opens: November 1, 2025

Paper submission closes: June 10, 2026

Paper acceptance notification: July 10, 2026

Registration deadline: July 20, 2026

Last Date of Camera-ready paper submission: August 10, 2026

Conference Date: 11-13 September 2026

(Note: Authors can register only after their papers have been accepted)

The detailed information can be found here:

Conference URL: <https://amsceht2026.opju.ac.in/>

Paper Submission Link: <https://cmt3.research.microsoft.com/AMSCEHT2026>

(Please Submit Under Next-Generation AI, Cloud, and Quantum Technologies for Smart Materials, Sustainable Energy, and Healthcare Systems.

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