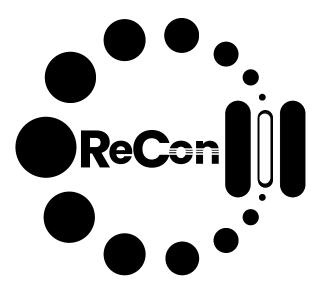




# Call For Papers







**2025** INNOVATE, INCLUDE, INSPIRE FOR A SUSTAINABLE FUTURE

#### 25TH- 27TH SEPTEMBER, 2025

# About the Conclave

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#### **TRACKS**

- Track 1: Artificial Intelligence and Machine Learning in Engineering and Environmental Applications
- Track 2: Sustainable Energy and Reliable Power
- Track 3: Molecular Frontiers in Biology: Advances and Applications
- Track 4: AI in Humanities and Management
- Track 5: Advanced Materials, Manufacturing, and **Built Environments**
- Track 6: Innovations in Signal Processing, VLSI Design and Hardware Technologies
- Track 7: Social Well-being, Inclusivity, and Management
- Track 8: Advances in Mathematical Theory and Computational Methods
- Track 9: Innovations in Astrophysics and Quantum **Technologies**

#### **IMPORTANT DATES**

**Abstract Submission Deadline** Notification of Abstract Acceptance 20th June, 2025 18th July, 2025 **Full Paper Submission Deadline Notification of Paper Acceptance Conference Date** 

30th June, 2025 15th July, 2025 31st July, 2025 15th August, 2025 22<sup>nd</sup> September, 2025 25<sup>th</sup>- 27<sup>th</sup> September, 2025

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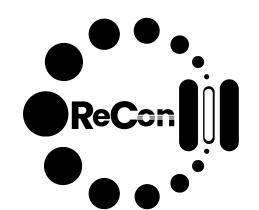


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## CALL FOR PAPERS

Artificial Intelligence and Machine Learning in Engineering and Environmental Applications

- AI in Healthcare
- AI in Social Media
- Image recognition with AI
- Generative AI and its Applications
- NLP for Bioinformatics
- Real-world NLP Applications
- Information Engineering
- Machine Learning and Optimization for Chemical Engineering
- AI in Cybersecurity
- Machine Learning in Materials Science and Materials Informatics
- AI in Automation and Control
- Application of Artificial Intelligence and Machine learning in Civil Engineering
- AI and ML-based Control and Estimation Techniques for Electrical Technologies
- Algorithm Engineering and Optimisation
- Bayesian and Probabilistic Models in AI
- AI Computer Vision
- Explainable AI
- AI in Wireless Communication

Submissions on related topics that align with the overarching theme of the conclave are also welcome

#### IMPORTANT DATES

Abstract Submission Deadline
Extended Date

**Notification of Abstract Acceptance** 

Full Paper Submission Deadline

**Extended Date** 

**Notification of Paper Acceptance** 

Conference Date

15th July, 2025 18th July, 2025

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### CALL FOR PAPERS

#### AI IN HUMANITIES AND MANAGEMENT

- Management in the Generative AI Era.
- AI in Performance Evaluation and Human Resources
- AI Decision Support Systems in Management
- Cross-Cultural Implications of AI Implementation
- Philosophical Perspectives on AI and Human Creativity
- Affect and AI
- AI Ethics and Society
- Identity and AI
- AI and Digital Archives
- Precarity in the age of AI
- AI in Creative and Cultural Works

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## CALL FOR PAPERS

# INNOVATIONS IN SIGNAL PROCESSING, VLSI DESIGN AND HARDWARE TECHNOLOGIES

- MOS Devices
- Power Engineering and Semiconductor Engineering
- Image Recognition and Processing
- Biomedical Signal Processing
- Image Processing
- Low Complexity Filter Design
- Semiconductor Devices -Advanced Materials
- Semiconductor Modelling
- Hardware Accelerator for Neural Networks (DNN, LLM)
- Advancements in Biomedical Signal Processing
- Next Generation VLSI Architectures for AI and ML Applications
- High Performance VLSI Architectures for AI and ML Acceleration
- Custom RISC-V Extensions for DSP applications

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# CALL FOR PAPERS

### Sustainable Energy and Renewable Power

- Sustainable and Renewable Energy Technologies
- Thermal Pads
- Overall Water Splitting and Green Hydrogen Production
- Innovations in Converters and Inverters for Various Power Applications
- Advanced Electric Machines and Drives
- Advancements in EV
- IOT and Intelligent Systems
- Renewable and Alternative Energy and Storage Systems
- Energy Conservation: Methods and Systems
- Energy Trading and Demand-side Management
- Power System Optimisation and Planning
- Power System Protection and Relaying
- Intelligent Control and Stability Enhancement for Microgrids
- Cybersecurity in Power and Energy systems
- Control, Instrumentation, and Automation
- Wireless Power Transfer Technology
- Cleaner Production and Technical Processes
- Environmental and Sustainability Assessment
- Sustainable Products and Services
- Carbon Capture and Storage
- Civil and Cyber Infrastructure for Energy Management Systems (e.g., smart grids, indoor heating and cooling, energy efficiency of buildings)
- Subsurface Energy Engineering

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## CALL FOR PAPERS

## Molecular Frontiers in Biology: Advances and Applications

- Microbial Bioprospecting for Advancing the Circular Bioeconomy
- Advances in Disease Diagnostics, Drug Discovery, and Development
- Tissue Engineering and Regenerative Medicine
- Environmental Engineering and Bioremediation
- Biophysics and Molecular Biology Insights from Lipidomics, Proteomics, and Genomics
- Immunomodulation, Immunotherapy, and Cancer Biology
- Novel Molecules for Biomedical Advances
- Food Processing and Valorisation
- Electrochemical Biosensors

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### CALL FOR PAPERS

Social Well-being, Inclusivity, and Management

- Inclusive Workplace
- Digital Transformation of Work
- Future of Retail Marketing and Management
- Ethical Strategies, and Obligations • Goals, towards Sustainability and Inclusion.
- Measuring and Evaluating Social Impact in Organizations
- Community Engagement and Corporate Social Responsibility
- Employee Well-Being Programs: Best Practices
- Social Well-being Metrics and Performance Indicators
- Gender Equality
- Women in Leadership

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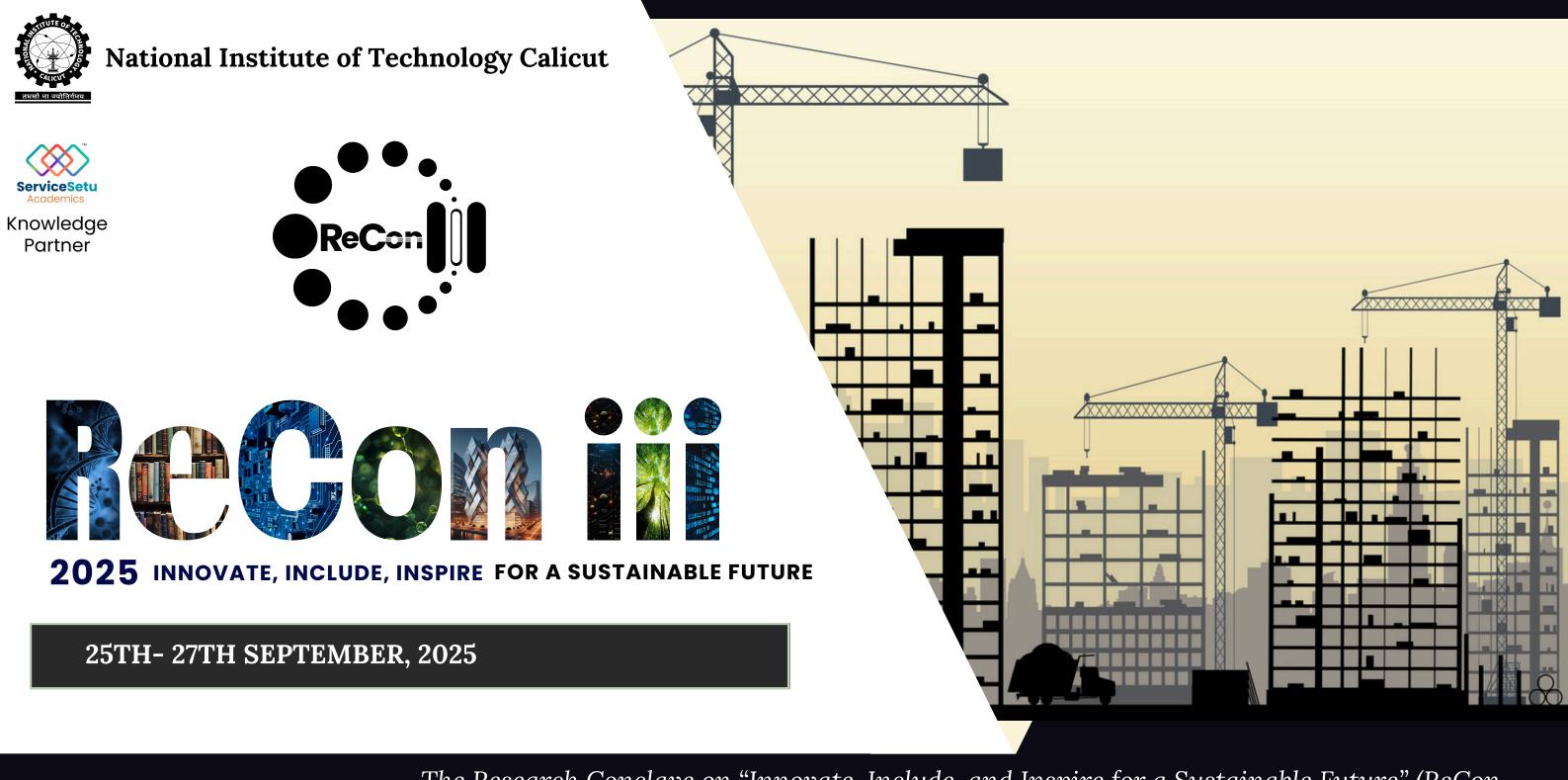
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# CALL FOR PAPERS

## Advanced Materials, Manufacturing, and Built Environments

- Advances in the Design and Synthesis of Industrially Significant Compounds
- Green Chemistry Innovations for Eco-Friendly Product Development.
- Phase Change Materials
- Gas Sensors
- Polymer Nano-Composites
- Carbon Materials
- Advanced Ceramics and High-Entropy Materials
- Life Cycle Assessment of Materials
- Advancements in Foundation Systems, Geosynthetics, and Landfills
- Advancements in Oil, Gas, and Petroleum
- Advances in Civil Structures: Airports, Highways, Bridges, Tunnels
- Advances in Pavement Material Characterization
- Advances in Composite Materials
- Building information modelling (BIM), Building and Construction Engineering
- Building Materials: Ecology, Nanotechnology, and Recent Trends
- Manufacturing Engineering, Production Systems, Additive Manufacturing, Quality, and Reliability Engineering
- Material Degradation: Wear, Corrosion, and Fouling
- Conventional and Modern Subtractive Manufacturing Processes
- Additive Manufacturing Processes and Material Characterization
- Modern Materials and their Characterizations
- Surface Engineering and Coating Technology
- Relevance of Precision in Manufacturing
- Joining and Forming Technologies
- Advances in Casting and Powder Metallurgy Technologies
- Biomedical Applicability of Ceramics and Polymers
- Clean Water and Sanitation
- Catalysis for Circular Economy
- Wide Bandgap Semiconductors(Sic, Gan)
- Nanomaterials for Biosensing

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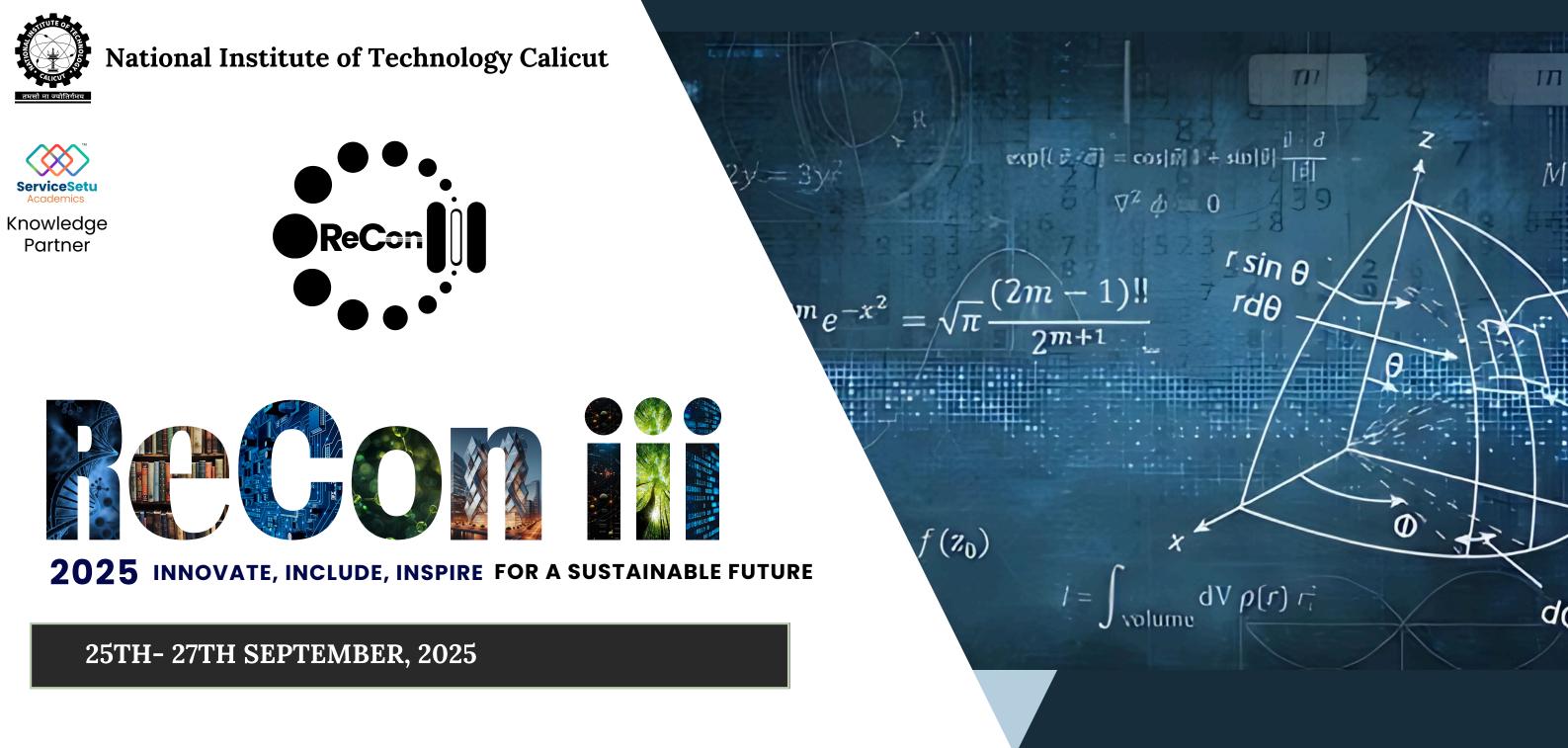
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**More Information** 

reconnitc.in research.conclave@nitc.ac.in



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### 

## Advances in Mathematical Theory and Computational Methods

- Mathematical Frameworks and Computational Advances in Fluid Dynamics
- Fuzzy graph theory
- Numerical Scheme/Simulations for Certain Differential Equations (ODE and PDE)
- Time Series Analysis
- Stochastic Model
- Linear Algebra and Optimization
- Process Modeling, designing, and simulation
- Theoretical Modelling of Materials

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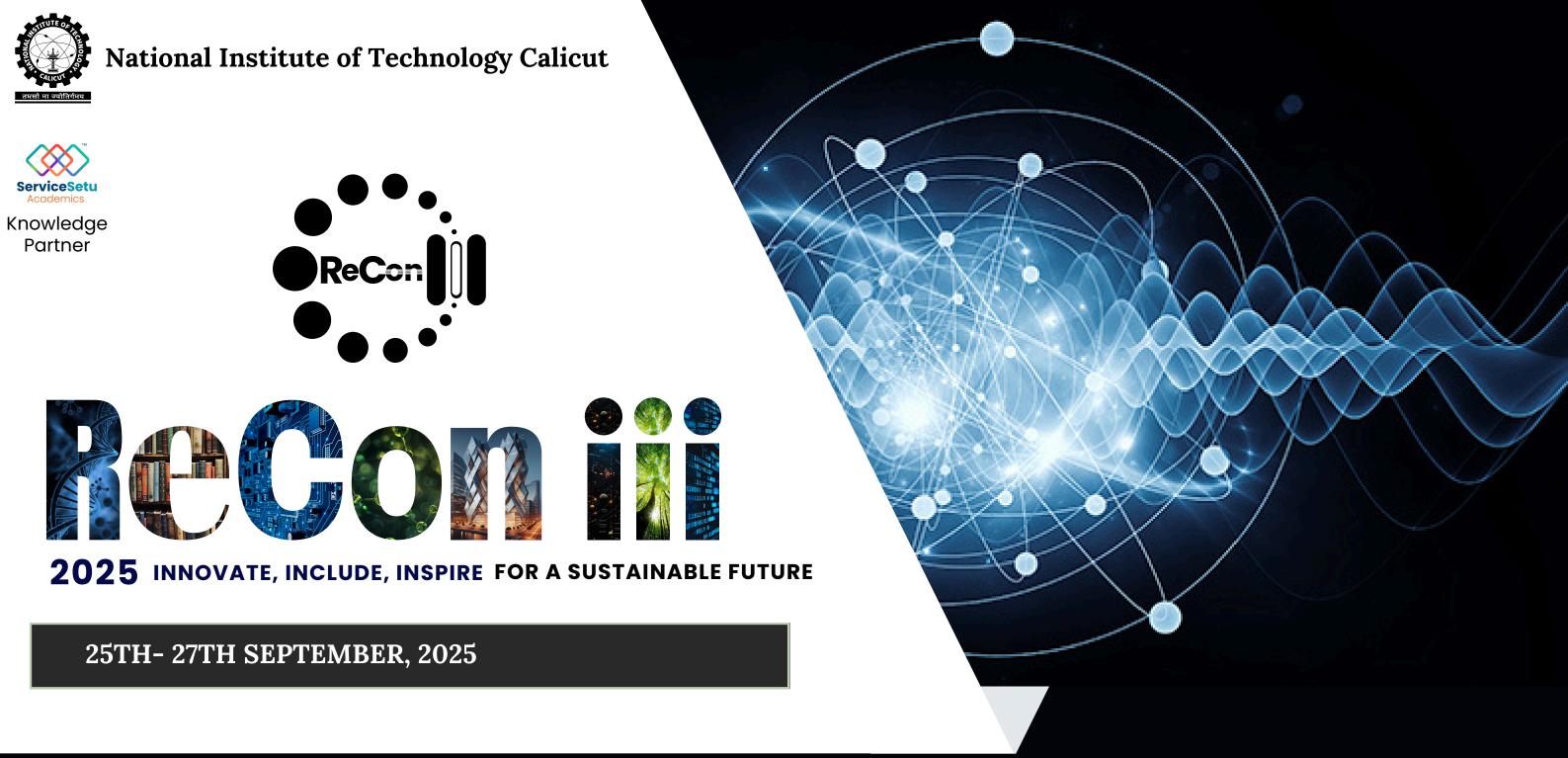
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## CALL FOR PAPERS

## Innovations in Astrophysics and Quantum Technologies

- Solar Astrophysics
- Machine Learning in Astrophysics
- High Energy Astrophysics
- High-Energy Physics

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