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Vellore Institute of Technology
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NEleX-2026

2ND INTERNATIONAL CONFERENCE ON
NEXT GENERATION ELECTRONICS

08th - 10th MAY, 2026

SPECIAL SESSION IX

TRACK XV

TEXTILE ELECTRONICS FOR HUMAN-CENTRIC, SUSTAINABLE, AND
INTELLIGENT SYSTEMS

This session explores textile-integrated electronics embedding sensing, energy, and computing into fibers and fabrics for body-conformal intelligent systems. It highlights AI applications in healthcare, safety, and smart environments, linking materials, devices, circuits, and systems.

MOTIVATION :

Enable human-centric electronics through textile-based systems for continuous monitoring and human-machine interaction.

NOVELTY :

Move from wearables to fabric-integrated electronic ecosystems across fibers, yarns, fabrics, and garments.

TENTATIVE TOPICS :

- Smart Textile Electronics for Human-Centric Healthcare Systems
- Energy-Autonomous Textile Systems for Next-Gen Wearables
- Fiber Integrated Sensors and Actuators for Intelligent Garments
- Sustainable and Biodegradable Textile Electronics
- AI-Integrated Textile Platforms for Ambient Intelligence

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IMPORTANT DATES

- Call for Papers Due : 15th March 2026
- Acceptance Notification : 31st March 2026
- Final Manuscript Submission & Registration : 15th April 2026

Submission Link: <https://vit.ac.in/NEleX-2026/authors.html#submission>