



2026 IEEE 5th International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES 2026)

9-11 October 2026

Government College of Engineering Kannur, Kannur, Kerala, India

www.gcek.ac.in/SPICES2026

Organizing Committee

General Chairs

Dr. Sajesh Kumar U, GCE Kannur, India
Dr. Stefano Scanzio, CNR-IEIIT, Italy

Co-General Chairs

Dr. Shelas Sathyan, NIT Trichy, India
Dr. Giles M. P., GEC Thrissur, India

TPC Chair

Dr. Anjali Anand K, GCE Kannur, India
Dr. Ajith K. K, GCE Kannur, India
Dr. Bijuna Kunju, TKMCE, Kollam, India

Publication Chair

Dr. Muhammed Ramees M. K. P, GCE Kannur, India
Dr. Rafeeq P.C, GCE Kannur, India
Dr. Sajith K, GCE Kannur, India
Dr. Jaison Mathew, GEC Thrissur, India

Publicity Chair

Dr. Manoj Kumar M. V, GEC Thrissur, India
Dr. Biju K, Assistant Director (Research), APJ Abdul Kalam Technological University, Kerala
Mr. Shone Jose, Chief Operating Officer, IICT India
Dr.-Ing. Jubin Sebastian E, IICT, GmbH, Germany
Dr. Ashutosh Shastry, Picarro, USA

Special Session Chairs



Dr. Stefano Scanzio
CNR-IEIIT, Italy



Dr. Shelas Sathyan
NIT Trichy, India



Dr. Giles M. P.
GEC Thrissur, India

Call for Special Session Papers IEEE SPICES 2026

2026 5th IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES 2026) is a flagship biennial conference of the IEEE Kerala Section, jointly organized by Government College of Engineering Kannur, to be held during 9–11 October 2026. The theme of the conference is “**AI, Smart Energy, and Communication Technologies for Sustainable Development.**”

Special Sessions (SS) provide a focused forum for presenting innovative research, emerging trends, and recent breakthroughs in specialized and advanced topics that may not be adequately covered in the regular conference tracks.

Authors are invited to submit original, unpublished research papers formatted according to the conference guidelines and submitted electronically through the submission portal <https://www.gcek.ac.in/SPICES2026/> for the special session tracks.

Special Sessions will be conducted in parallel with the regular technical sessions during 9–11 October 2026. All papers submitted under Special Sessions will undergo the same rigorous peer-review process as regular papers. Accepted and presented papers meeting IEEE requirements will be submitted for inclusion in the IEEE Xplore Digital Library (subject to IEEE quality standards). Submission guidelines are available at: <https://gcek.ac.in/SPICES2026/paper-submission.php>

Special Session Track 4

SS4: Integration of VLSI with Artificial Intelligence and Neural Networks for Next-Generation Intelligent Systems

Organized by

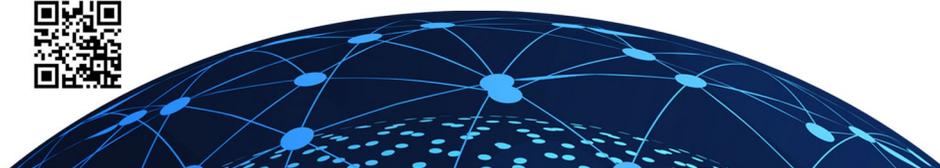
- Dr. Neeraj Gupta, ECE, Amity University Haryana, [ngupta@ggn.amity.edu](mailto:n Gupta@ggn.amity.edu)
- Dr. Rashmi Gupta, CSE, Amity University Haryana, rgupta@ggn.amity.edu
- Dr. Vivek Jaglan, City Institute of Higher Learning, Moncton, NB, Canada, jaglanvivek7@gmail.com

Integration of VLSI with Artificial Intelligence and Neural Networks for Next-Generation Intelligent Systems. This topic is particularly interesting and significant because it sits at the convergence of two fast-evolving fields that increasingly depend on each other. Advances in AI demand new hardware paradigms, while innovations in VLSI directly shape the feasibility and efficiency of intelligent systems. By bringing together researchers from both domains, this special session addresses a critical global need for sustainable, high-performance, and intelligent hardware solutions, making it highly relevant to academia, industry, and society at large.

For more details, visit:

www.gcek.ac.in/SPICES2026

ieeespices2026@gcek.ac.in





2026 IEEE 5th International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES 2026)

9-11 October 2026

Government College of Engineering Kannur, Kannur, Kerala, India

www.gcek.ac.in/SPICES2026

Organizing Committee

General Chairs

Dr. Sajesh Kumar U, GCE Kannur, India
Dr. Stefano Scanzio, CNR-IEIIT, Italy

Co-General Chairs

Dr. Shelas Sathyan, NIT Trichy, India
Dr. Giles M. P., GEC Thrissur, India

TPC Chair

Dr. Anjali Anand K, GCE Kannur, India
Dr. Ajith K. K, GCE Kannur, India
Dr. Bijuna Kunju, TKMCE, Kollam, India

Publication Chair

Dr. Muhammed Ramees M. K. P, GCE Kannur, India
Dr. Rafeeq P.C, GCE Kannur, India
Dr. Sajith K, GCE Kannur, India
Dr. Jaison Mathew, GEC Thrissur, India

Publicity Chair

Dr. Manoj Kumar M. V, GEC Thrissur, India
Dr. Biju K, Assistant Director (Research), APJ Abdul Kalam Technological University, Kerala
Mr. Shone Jose, Chief Operating Officer, IICT India
Dr.-Ing. Jubin Sebastian E, IICT, GmbH, Germany
Dr. Ashutosh Shastry, Picarro, USA

Special Session Chairs



Dr. Stefano Scanzio
CNR-IEIIT, Italy



Dr. Shelas Sathyan
NIT Trichy, India



Dr. Giles M. P.
GEC Thrissur, India

The Special Session focuses on (but is not limited to):

- VLSI architectures for AI and deep learning
- Hardware accelerators for neural networks (CNN, RNN, Transformer models)
- Neuromorphic computing and brain-inspired VLSI systems
- Low-power and energy-efficient AI hardware
- In-memory and near-memory computing for neural networks
- AI-enabled SoC and ASIC design
- FPGA-based AI implementations
- Edge AI and IoT hardware architectures
- Hardware security and reliability in AI-based VLSI systems
- Approximate computing for AI applications
- Emerging devices and technologies for AI hardware
- Design automation and verification for AI-driven VLSI

Important Dates

Special Session Paper Submission Opens: **10 March 2026**

Special Session Paper Submission Deadline: **15 April 2026**

Special Session Paper Acceptance Notification: 15 June 2026

Early-Bird Registration : 15 June 2026 to 15 July 2026

Final Camera-ready Paper : 15 June 2026 to 30 July 2026

Registration Ends : 30 July 2026

Submit your innovative research to the Special Sessions of IEEE SPICES 2026 and be part of a dynamic platform fostering impactful and future-ready technologies.

For more details, visit:

www.gcek.ac.in/SPICES2026

ieeespices2026@gcek.ac.in

