



IEEE
NEWCAS 2027
IEEE 25th Interregional NEWCAS Conference
Cork, Ireland || 20-23 June 2027



AN IEEE CAS SOCIETY INTERREGIONAL FLAGSHIP CONFERENCE

CALL FOR PAPERS

IMPORTANT DATES

December 1, 2026

Paper submission website opens

December 8, 2026

Special sessions proposals deadline

February 8, 2027

Paper submission deadline

February 8, 2027

Tutorial proposal submission deadline

February 8, 2027

Special sessions paper submission deadline
(papers not for publication can be submitted later)

March 1, 2027

Registration opens

April 9, 2027

Decision Notification

April 30, 2027

Final Paper submissions, Early Registration Deadline

THEME: AI ASSISTED DESIGN OF CIRCUITS AND SYSTEMS

The 25th IEEE Interregional NEWCAS Conference will be held in Cork, Ireland, on June 20-23, 2027. The program of the conference will be tailored to reflect the wide spectrum of topics and research interests shared among the CAS community. The conference aims to attract papers from both academic and industrial research. In keeping with the conference theme there will be invited papers on new AI assisted methods to design RF, analog and digital circuits and systems.

Papers can be submitted to the following tracks:

- » Analog & Mixed-Signal Circuits, Sensory Systems
- » Data Converters
- » Digital & Embedded Circuits & Systems
- » Biomedical & Wearable Systems
- » Wireless & Wireline Communication Circuits & Systems
- » RF, Microwave, mmWave & THz Circuits
- » Power Management, Energy Harvesting & Power Electronics
- » Photonic & Optoelectronics Circuits & Systems
- » EDA, CAD & Design Tools
- » Neuromorphic & Neural Inspired Circuits & Systems
- » Circuits & Systems for AI
- » Hardware security & cryptography
- » Quantum Computing & Cryo-CMOS
- » Emerging Technologies & Technology Trends
- » Special Sessions

ORGANIZING COMMITTEE

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Giulia Di Capua

University of Cassino and Southern Lazio

Tutorial Co-Chairs

Gerardo Salgado

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SUBMISSIONS

The organizing committee invites prospective authors to submit complete 4-page papers in standard IEEE double-column format, with the possibility of an additional page dedicated to references, to clearly present the work, methods, results, originality, significance, superiority and applications of the techniques discussed. The papers must be submitted in electronic PDF format.

