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Technical programme Committee

Track Chairs:

- Analog: t.b.a.
- Digital: t.b.a.
- SoC: t.b.a.
- Special sessions: Jari Nurmi, Tampere University (FI)

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- Yuteng Zhou, WPI (US)
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- Johnny Öberg, KTH (SE)



Call for Papers

2027 IEEE NorCAS Conference

IEEE Nordic Circuits and Systems Conference
26-27 October 2027 Hell, Norway

NorCAS

General Scope of the Conference

The IEEE NorCAS conference is the main circuits and systems event of the Nordic countries representing both academia as well as electronics industry. The IEEE NorCAS conference is a merge of the well-established conferences NORCHIP and SoC. The annual IEEE CASS co-sponsored conference covers all fields of electronics design, spanning from complex digital systems to advanced analog and mixed-mode circuits. The wide scope of the conference promotes cross-field collaboration not only between academics but also with industry. Papers of high scientific and technical quality are presented together with selected invited speakers and pre-conference tutorial sessions.

Technical programme

The 2027 IEEE NorCAS conference will take place on 26-27 October 2027. The Steering Committee invites people from academia and industry to contribute papers. Contributions for the 2027 conference shall be in the following areas:

ANALOG

- Biomedical circuits and systems
- Sensor interface circuits, data-converters
- Wireless circuits and systems
- Mixed mode designs, high frequency circuits, design for testability

DIGITAL

- Microelectronics/nanoelectronics
- Embedded systems, FPGA and prototyping
- Sensors, Imagers, MEMS devices
- Measurement, modeling, and simulation of hardware
- CAE, design tools, VLSI design methodology
- Machine learning, neural networks
- Packaging and interconnect
- System-level design flow and methodology

SoC

- Network-on-Chip
- Hardware/software co-design and reuse
- Multicore and manycore platforms
- Reconfigurable architectures
- SoC verification and testing
- Processor and memory design for SoC
- Runtime environments, emulation and simulation

Special Sessions

- t.b.a.

Submission of Contributions

Papers will be selected by the Steering Committee on the basis of a full-length paper (4-6 A4 pages) based on a peer review performed by the Technical Programme Committee. There may be a 7th page with references only.

Papers may be selected for either lecture or poster presentation. Equal quality measures will be applied to posters and lectures. All accepted papers will be published in the conference proceedings and submitted for inclusion in IEEE Xplore.

Dates and Deadlines

Special session proposals: June 14, 2027

Paper submission deadline: August 16, 2027

Notification of acceptance: September 22, 2027

Final camera-ready papers: October 11, 2027

The proceedings will be composed from camera ready pdf files supplied by authors. The paper must follow the IEEE 2-column standard as described in the paper submission guidelines in the author info section at events.tuni.fi/norcas/. Instructions on special session proposals are found on the web page, too.

The submission site is at **www.conftool.pro/norcas2027**

Top papers will be invited to be extended and submitted to a special section planned for a journal. The extended papers will undergo a separate thorough peer review, as any papers submitted to the journal.

Location

Scandic Hell Hotel, Hell (Trondheim), Norway

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