

Steering Committee

- General chair: Jari Nurmi, Tampere University (FI)
- Conference chair: Dag Wisland, Univ. of Oslo (NO)
- Attila Alvandpour, Linköping University (SE)
- Peeter Ellervee, Taltech (EE)
- Kari Halonen, Aalto University (FI)
- Jan H. Mikkelsen, Aalborg Univ. (DK)
- Jim Tørresen, University of Oslo (NO)

IEEE CASS VSA-TC Liaison

- t.b.d.

Technical programme Committee

- Track Chair (Analog): Kristian Gjertsen Kjelgård, Univ. of Oslo (NO)
- Track Chair (Digital): Snorre Aunet, NTNU (NO)
- Track Chair (SoC&Special): Jari Nurmi, TAU (FI)
- Orazio Aiello, National Univ. of Singapore (SG)
- Janne Aikio, Univ. of Oulu (FI)
- Gabriel Almeida, Harman/Samsung (DE)
- Paul Annus, Taltech (EE)
- Marco Balboni, University of Ferrara (IT)
- Elmars Bekeris, Riga Technical University (LV)
- Chintan Bhatt, Charusat University (IN)
- Claudio Brunelli, Nokia (FI)
- Erik Bruun, DTU (DK)
- Luigi Carro, UFRGS (BR)
- Mario Casu, Politecnico di Torino (IT)
- Kun-Chih (Jimmy) Chen, National Sun Yat-sen University (TW)
- Yong Chen (Nick), Univ. of Macau (MO)
- Patricia Derler, National Instruments (US)
- Peeter Ellervee, Taltech (EE)
- William Fornaciari, Politecnico di Milano (IT)
- Alberto Garcia Ortiz, Univ. of Bremen (DE)
- Diana Goehringer, TU Dresden (DE)
- Gunnar Gudnason, Oticon (DK)
- Xinfei Guo, Mellanox Technologies (US)
- Oscar Gustafsson, Linköping University (SE)
- Kari Halonen, Aalto Univ. (FI)
- Shadi Harb, Intel, (US)
- Hannu Heusala, Univ. Oulu (FI)
- Tung Hoang Thanh, Micron Technology (US)
- Thomas Hollstein, Taltech (EE)
- Heikki Hurskainen, Nokia (FI)
- Waqar Hussain, National Semiconductors (NO)
- Mohsin Jamali, University of Texas (US)
- Maksim Jenihhin, Taltech(EE)
- Gert Jervan, Taltech (EE)
- Ted Johansson, Linköping Univ. (SE)
- Per Gunnar Kjeldsberg, NTNU (NO)
- Gul Khan, Ryerson University (CA)
- Selcuk Kose, Univ. of Rochester (US)
- Olli-Erkki Kursu, Univ. of Oulu (FI)
- Volkan Kursun, NTNU (NO)
- Kimmo Kuusilinnä, Nosteeco (FI)
- Vesa Lahtinen, Nokia (FI)
- Yannick Le Moulec, Taltech (EE)
- Kin Keung Lee, LSCM (HK)
- Pasi Liljeberg, University of Turku (FI)
- Liang Liu, Lund University (SE)
- Juri Mihhailov, Taltech (EE)
- Jan H. Mikkelsen, Aalborg University (DK)
- Farshad Moradi, Aarhus Univ. (DK)
- Ethiopia Nigusie, University of Turku (FI)
- Ilkka Nissinen, Univ. of Oulu (FI)
- Sajjad Nouri (DE)
- Vojin G. Oklobdzija, UC Davis (US)
- Milica Orlandić, NTNU (NO)
- Dmitry Osipov, ITEM (DE)
- Vassilis Paliouras, Univ. of Patras (GR)
- Darshika G. Perera, UCSS (US)
- Ernesto Pérez, CSEM (CH)
- Sebastian Pillement, Univ. of Nantes (FR)
- Juha Plosila, University of Turku (FI)
- Yang Qu, Mediatek (FI)
- Timo Rahkonen, Oulu University (FI)
- Toomas Rang, Taltech (EE)
- Ketil Røed, Univ. of Oslo (NO)
- Juha Rönning, Univ. of Oulu (FI)
- Alireza Saberkari, Linköping University (SE)
- Ibraheem Shayea, Istanbul Technical Univ. (TR)
- Ming Shen, Aalborg University (DK)
- Olli Silvén, University of Oulu (FI)
- Henrik Sjöland, Lund University (SE)
- Bassel Soudan, Univ. of Sharjan (UA)
- Jens Sparsø, Technical Univ. of Denmark (DK)
- Kjetil Ullaland, University of Bergen (NO)
- Kalle Tammemäe, Taltech (EE)
- Vishnu Unnikrishnan, Tampere Univ. (FI)
- Boris Vaisband, McGill University (CA)
- Lan-Da Van, National Chiao Tung Univ. (TW)
- Mark Vesterbacka, Linköping Univ. (SE)
- Seppo Virtanen, University of Turku (FI)
- Upasna Vishnoi, Marvell Semiconductor (US)
- Roshan Weerasekera, Univ. West of England (UK)
- Jacob Wikner, Linköping Univ. (SE)
- Trond Ytterdal, NTNU (NO)
- Yuteng Zhou, WPI (US)
- Hesam Zolfaghari, Tampere Univ. (FI)
- Johnny Öberg, KTH (SE)



Call for Papers

2022 IEEE NorCAS Conference

IEEE Nordic Circuits and Systems Conference
25-26 October 2022 Oslo, Norway

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 CAS 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 2022 IEEE NorCAS conference will take place on 25-26 October 2022. The Steering Committee invites people from academia and industry to contribute papers. Contributions for the 2022 conference in Oslo 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

- Approximate Computing Circuits and Systems
- Heterogeneous Networks and Mobility Management in 5G and 6G
- Reconfigurable Architectures and Network-on-Chips for Massively Parallel Signal Processing



NorCAS

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 21, 2022

Paper submission deadline: **August 15, 2022**

Notification of acceptance: September 20, 2022

Final camera-ready papers: October 4, 2022

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/norcass2022. Instructions on special session proposals are found on the web page, too.

The submission site is at www.conftool.pro/norcass2022

Top papers will be invited to be extended and submitted to a special section planned for IEEE Transactions on Very Large Scale (VLSI) Systems - TVLSI. The extended papers will undergo a separate thorough peer review, as any papers submitted to TVLSI.

Location

Oslo, Norway

Sponsors:



UiO



events.tuni.fi/norcass2022

IEEE NorCAS SECRETARIAT:
Tampere University
Korkeakoulunkatu 1 D 419
FI-33014 Tampere University
Finland

Tel: +358 40 506 4460

Email: norcass@tuni.fi