

VLSI-SoC 2022: Students Forum



October 3-5, 2022
University of Patras
Patras, Greece



VLSI-SoC 2022 is the 30th in a series of international conferences sponsored by the International Federation for Information Processing Technical Committee 10 Working Group 5, IEEE CEDA, and IEEE CASS, which explore the state-of-the-art in the areas of Very Large Scale Integration (VLSI) and System-on-Chip (SoC) design. The purpose of VLSI-SoC is to provide a forum to exchange ideas and showcase academic as well as industrial research in architectures, circuits, devices, design automation, verification, test, and security, within digital, analog, and mixed-signal systems.

VLSI-SoC 2022 will be held under the theme "SoCs for 5G Evolution and 6G," exploring the design and optimization challenges around 5G+6G communication systems and devices embedded systems, security, low power circuits, powered by CMOS and beyond CMOS-technologies.

While the event is expected to be in presence, its format will be decided at a later date depending on the COVID-19 pandemic evolution.



Eligibility for Student Forum: Undergraduate, master, and early Ph.D. students are invited to submit their work.

Presentation: Posters will be introduced in the Student Forum Session (two-minute time slot, one slide) and next will be presented in a full one-hour Poster Session.

Publication: Accepted posters will be given two pages in the soft proceedings.

Student Forum grants: VLSI-SoC 2022 will provide a limited number of travel grants through the Technical Committee TC-10 (Computer Systems Technology) and WG-10.5 of the International Federation for Information Processing – IFIP. Grants are intended to support students from emerging and underdeveloped countries (by UN classification), who cannot be fully supported by their institutions.

How to Apply: Submit a two-page extended abstract of your research work in PDF format. Send submissions via EASYCHAIR platform of VLSI-SoC 2022.

Paper Format: Papers should be compliant with the guidelines for regular

Topics of interest include, but are not limited to:

- ▶ Analog mixed-signal, sensors, and RF
- ▶ VLSI circuits and SoC design
- ▶ Embedded systems design and software
- ▶ EDA tools and methodologies for digital IC design
- ▶ Verification, modeling and prototyping
- ▶ Design for testability, reliability and fault-tolerance
- ▶ Hardware security
- ▶ Emerging technologies and new computing paradigms
- ▶ AI acceleration
- ▶ Approximate Computing
- ▶ Circuits for quantum computing
- ▶ Cryogenic processors



General co-chairs: Odysseas Koufopavlou (University of Patras, GR)
Graziano Pravadelli (University of Verona, IT)

Program co-chairs: Vassilis Paliouras (University of Patras, GR)
Lech Jozwiak (Eindhoven University of Technology, NL)

Special session co-chairs: Dimitrios Soudris (National Technical University of Athens, GR)
Apostolis Fournaris (Monash University, AU)

Ph.D. & Student forum co-chairs: Ricardo Reis (Universidade Federal do Rio Grande do Sul, BR)
Alexandra Zimpeck (UCPel, BR)

Industrial chair: Victor Grimblatt (Synopsys, CL)

Local chair: Nicolas Sklavos (University of Patras, GR)

Publication chair: Paris Kitos (University of Peloponnese, GR)

Publicity co-chairs: Yuanqing Cheng (Beihang University, CN)
Claudio Diniz (UFRGS, BR)
Matthew Guthaus (UC Santa Cruz, USA)
Athanasios Kakarountas (University of Thessaly, GR)
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