CEDA®
IEEE Council on Electronic Design Automation

Newton Award Winners Announced

CEDA would like to congratulate the 2023 winners of the A. Richard Newton Technical Impact Award in Electronic Design Automation award:

Congratulations to the authors— Moshe Y. Vardi and Pierre Wolper— for their paper titled "Automata-Theoretic Approach to Automated Verification." The paper was published in the proceedings of the 1st Symposium on Logic in Computer Science, 1986. View past recipients or get more information about this award here.

Chips in RIO: Plenary Speaker

Chip in Rio 2023 encompasses five events: Symposium on Microelectronics Technology and Devices (SBMicro), Symposium on Integrated Circuits and Systems Design (SBCCI), International Symposium on Instrumentation Systems, Circuits and Transducers (INSCIT), Workshop on Circuits and Systems Design (WCAS), and Student Forum (SForum). They form the largest forum in Latin America for discussions and debates in those fields, ranging from conception, design, processing, and modeling of devices and systems to the characterization of integrated circuits, sensors, actuators, microstructures, instrumentation, as well as, product development.

Mohammad Abdullah Al Faruque will be giving a plenary talk on "Cross-Layer Security of Embedded and Cyber-Physical Systems." View the full program here.

Save the Date for ESWEEK 2023

Embedded Systems Week (ESWEEK) will be held on 17-22 September in Hamburg, Germany. ESWEEK is the premier event covering all aspects of hardware and software design for intelligent and connected computing systems. By bringing together three leading conferences (CASES, CODES+ISSS, EMSOFT), two symposia (MEMOCODE, NOCS), and several workshops, tutorials, and education classes, ESWEEK allows attendees to benefit from a wide range of topics covering the state of the art in embedded systems research and development.

IEEE/ACM ICCAD 2023: Save the Date

The ACM/IEEE International Conference on Computer-Aided Design (ICCAD) will be held in San Francisco, CA on 29 October-2 November 2023. ICCAD is the premier forum to explore the new challenges, present leading edge innovation solutions, and identify emerging technologies in the Electronic Design Automation Research area. ICCAD covers a full-range of CAD topics – from device and circuit level up through system level, as well as post-CMOs design. ICCAD has a long-standing tradition of producing cutting-edge, innovative technical program for attendees. For more information, visit the ICCAD website.

Save the Date for ASP-DAC 2024

Asian and South Pacific Design Automation Conference (ASP-DAC) 2024 is the 29th annual international conference on VLSI design automation in Asia and South Pacific regions, one of the most active regions of design, CAD, and fabrication of silicon chips in the world. The conference aims at providing the Asian and South Pacific CAD/DA and Design community with opportunities of presenting recent advances and with forums for future directions in technologies related to design and Electronic Design Automation (EDA). The format of the meeting intends to cultivate and promote an instructive and productive interchange of ideas among EDA researchers/developers and system/circuit/device designers. All scientists, engineers, and students who are interested in theoretical and practical aspects of VLSI design and design automation are welcome to ASP-DAC. The conference will be held on 22-25 January 2024 in Incheon Songdo Convensia, South Korea.

For more information, visit the website.

DATE 2024: Call for Papers

The Design Automation and Test in Europe Conference (DATE) is the main European event bringing together designers and design automation users, researchers and vendors as well as specialists in the hardware and software design, test, and manufacturing of electronic circuits and systems. DATE puts a strong emphasis on

both technology and systems, covering ICs/SoCs, reconfigurable hardware, and embedded systems as well as embedded software. DATE 2024 will be held in Valencia, Spain from 25-27 March 2024. For more information, visit the website.

Important Dates:

- Abstract deadline: 10 September 2023
- Full-paper deadline: 17 September 2023
- Notification of acceptance: 14 November 2023
- Camera-ready papers deadline: 17 January 2024
- Paper-presentation videos deadline: 7 February 2024

View the call for papers here.

JxCDC

The **IEEE Journal on Exploratory Solid-State Computational Devices and Circuits** is now soliciting papers for their Special Issues on Steep Slope Transistors for Energy-Efficient Computing & More.

Tunnel field-effect transistors (FETs) and low-subthreshold-swing steep-slope (SS) transistors hold promise to outperform complementary metal-oxide semiconductor technology (CMOS) at low voltage and realize more energy-efficient logic for computation. The aim of this special topics issue is to highlight experimental advances and ideas that make SS transistors attractive for integration with CMOS to realize better power-performance logic.

Important Dates:

- Submission deadline: 1 September 2023
- First Notification: 1 October 2023
- Revision Submission: 15 October 2023
- Final decision: 15 November 2023

For more information, download the Call for Papers here.

D&T: Call for Papers

The IEEE Design&Test is now soliciting papers for their Special Issue on Wearable IoT Devices for Reliable Mobile Health Applications.

Wearable Internet of Things (IoT) technology has the potential to transform the quality of human life by enabling cost-effective, reliable, continuous, and data-driven monitoring of users in a free-living environment. For example, wearable devices have been identified as a key technology to support the aging populations across the world. Despite the impressive potential of wearable technology, their widespread adoption in both clinical and everyday settings have been limited due to several technology, usability, and energy sustainability challenges.

Important Dates:

- Open for submissions: 1 September 2023
- Submission deadline: 1 February 2024
- Notification of first round: 15 April 2024
- Revision submission: 20 April 2024
- Final decision: 15 June 2024
- Tentative publication: Fall 2024

View the call for papers here.

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