CEDA®

IEEE Council on Electronic Design Automation

ieee-ceda.org

About IEEE Council on Electronic Design Automation (CEDA)

Formed in 2005

Field of Interest. The theory, implementation, and use of EDA/CAD tools to design integrated electronic circuits and systems. This includes tools that automate all levels of the design, analysis, and verification of hardware and embedded software up to and including complete working systems.

Vision. To be the leading provider in IEEE of technical information and community services in Design and Automation of Electronic and Embedded Systems.

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CEDA Executive Committee

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L. Miguel Silveira
INESC-ID, IST,
Universidade de Lisboa

President-Elect
Cristiana Bolchini
Politecnico di Milano

2024-2025 CEDA Officers

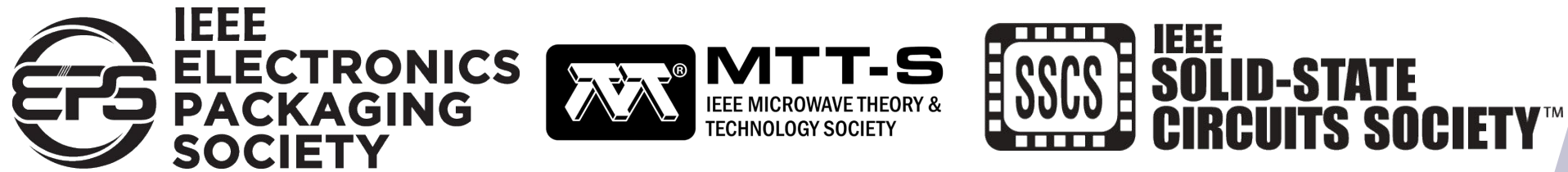|			
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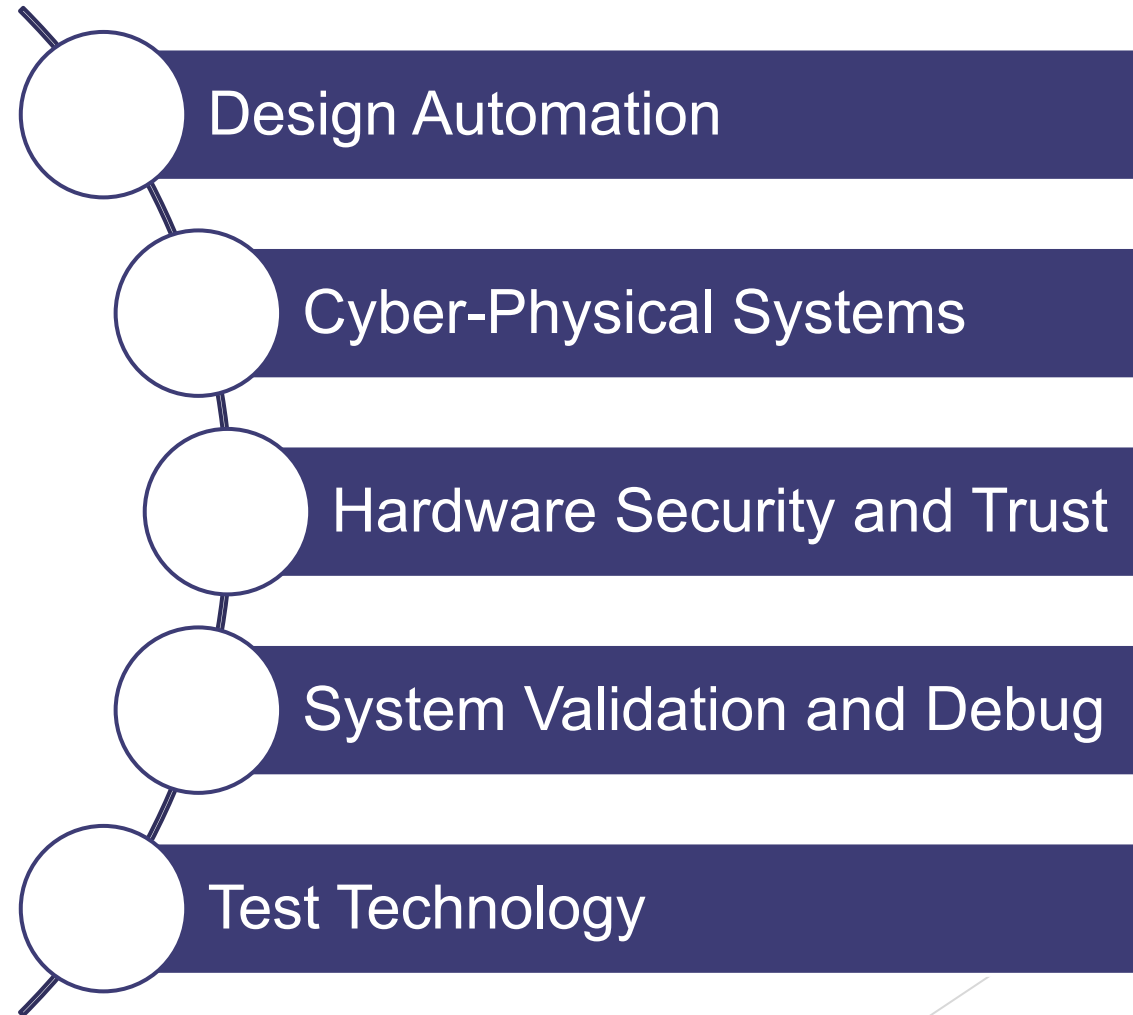IEEE Council on Electronic Design Automation

Member Societies

Technical Committees

To assure grounding in the major technology activities of the electronic design automation field, CEDA has Member Technology Organizations from various conferences, publications, and organizations.

Design Automation

Cyber-Physical Systems

Hardware Security and Trust

System Validation and Debug

Test Technology

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Chapters

The goal of CEDA chapters is to facilitate CEDA-relevant activities locally. Chapters serve IEEE members by holding meetings at the local level. These meetings may include invited lectures or regular discussion meetings on recent EDA topics.

19
Section Chapters

12
Student Chapters

13
Countries

5
IEEE Regions

Updated: February 2025

Conferences

CEDA financially and technically sponsors and co-sponsors many different conferences and workshops to foster design automation of electronic circuits and systems.

Full list of events available on ieee-ceda.org

Sponsorship Opportunities

Conferences

- ► If you are organizing a conference, CEDA can help!

- ► Organizing, financing, publishing, advertising

- ► Contact VP Conferences at vp.conferences@ieee-ceda.org

Meetings, Workshops, Contests, Etc.

- ► Events with no "proceedings" to be published

- ► Contact VP Activities at admin@ieee-ceda.org

All other sponsorship opportunities should contact the CEDA President admin@ieee-ceda.org

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CEDA Awards

CEDA recognizes the scientific activities of the members of the EDA community by sponsoring numerous awards in the field. The honors recognize a wide range of contributions, including individuals who have had demonstrable impact on the field of electronic design, made substantial technical contributions to EDA in the early stages of her or his career, those whose impact is recognized over a significant period of time, outstanding publications, and volunteers with outstanding service to the benefit and advancement of CEDA.

🏆 **All awards, forms, and previous winners are available on ieee-ceda.org**

► Phil Kaufman Award for Distinguished Contributions to EDA and Hall of Fame

► A. Richard Newton Technical Impact Award in Electronic Design Automation

► IEEE Transactions on Computer-Aided Design Donald O. Pederson Best Paper Award

► Ernest S. Kuh Early Career Award

► William J. McCalla ICCAD Best Paper Award

► Distinguished Service Award

► Outstanding Service Recognition

► IEEE Fellows elevated by CEDA

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Publications

Financially Sponsored Publications

► IEEE Design&Test (D&T)

► IEEE Embedded Systems Letters (ESL)

► IEEE Journal on Exploratory Solid-State Computational Devices and Circuits (JxCDC)

► IEEE Transactions on Computer Aided Design of Integrated Circuits & Systems (TCAD)

► IEEE Transactions on Circuits and Systems for Artificial Intelligence (TCASAI)

ieee-ceda.org/publications

Technically Sponsored Publications

► IEEE Internet of Things Magazine

► IEEE Transactions on Signal and Power Integrity (TSPI)
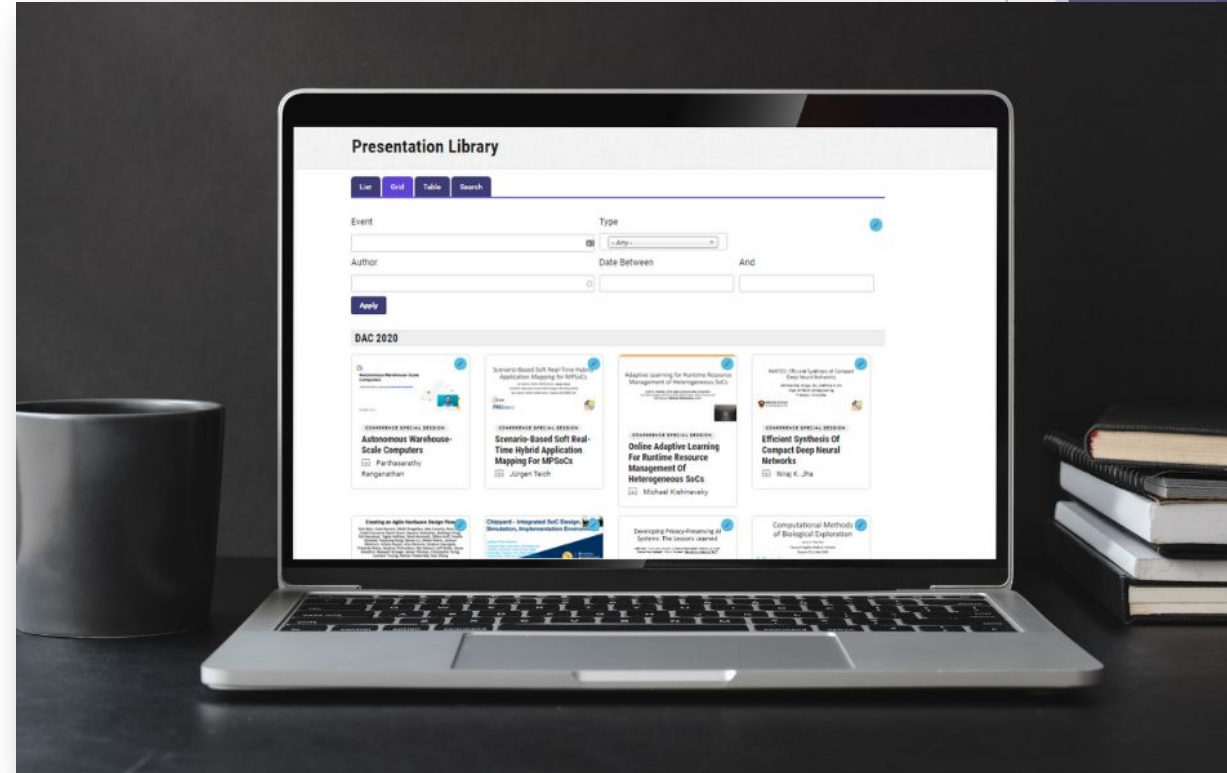
► IEEE Transactions on Sustainable Computing (T-SUSC)

Currents **- CEDA's Newsletter**

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Educational Resources

CEDA Presentation Library Launched in 2020

Constantly pursuing new ways to accomplish its mission and considering the effects that the pandemic has in the communication among its members, CEDA added a new web feature to facilitate knowledge dissemination within and beyond the EDA community. The Presentation Library includes talks from conferences, workshops, plenary talks, lectures, etc. that are of significant interest to the community.

Educational Resources

CAD for Assurance

The CAD for Trust and Assurance website is an academic dissemination effort by researchers in the field of hardware security. The goal is to assemble information on all CAD for trust/assurance activities in academia and industry in one place and share them with the broader community of researchers and practitioners in a timely manner, with an easy-to-search and easy-to-access interface. We're including information on many major CAD tools the research community has developed over the past decade, including open-source license-free or ready-for-licensing tools, associated metrics, relevant publications, and video-demos.

You Tube All webinars are available on the CEDA YouTube page

CEDA Distinguished Lecturers Program

Established in 2016

Objective

Access to experts promoting the field of electronic design automation

Highlights

Four DLs with various backgrounds and geo-locations

Online Biography and Talk Titles

Information

ieee-ceda.org

► Request a Distinguished Lecturer for your event by visiting the CEDA website (ieee-ceda.org/activities/distinguished-lecturers-program) and completing the request form.

► Calls for new DLs are announced on the website and social media.

CEDA Distinguished Lecturers | 2024-2025

Alberto Bosio | ECL

AI Hardware Accelerator for Safety-Critical Applications
Trustworthy AI: The role of the Hardware

Sudeep Pasricha | Colorado State University

Artificial Intelligence at the Speed of Light
Robust and Secure Design for Connected and Autonomous Vehicles

Sustainability Challenges with Computing: from Internet-of-Things to Datacenters

Ricardo Reis | Universidade Federal do Rio Grande do Sul

Physical Design Automation of Transistor Networks
Trends on EDA

Visualization Tools

Bei Yu | The Chinese University of Hong Kong

Machine Learning in EDA: When and How
Large Scale VLSI Mask Optimization

Large Language Model in EDA

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What Can the Council Do For You?

As CEDA is an IEEE Technical Council and unlike Member Societies, individuals cannot be members of a council. However, IEEE Members can register as CEDA participants, receive newsletters, attend CEDA sponsored events, and volunteer.

Conferences

Standards

Publications

Education

Technical Activities

Networking

How to Get Involved?

Become a CEDA Participant

For free on the IEEE website

Conferences and Events

Organize a meeting, workshop or conference.

Review for CEDA conferences and Journals

Get involved with local chapters and volunteer to organize activities

Volunteer to organize activities

Distinguished Lecturers Program

Request a DL at your next event

Apply to become a DL

Volunteer to Serve on CEDA Committees

Calls are announced on the website and social media

Subscribe to CEDA Mailing List

bit.ly/currents-subscribe

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