



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.

CEDA Executive Committee



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INESC-ID, IST,
Universidade de Lisboa



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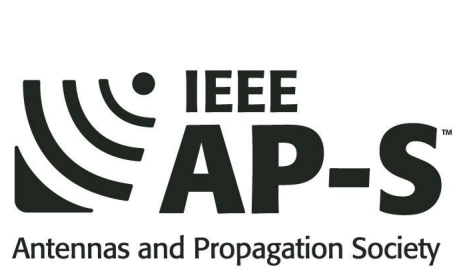
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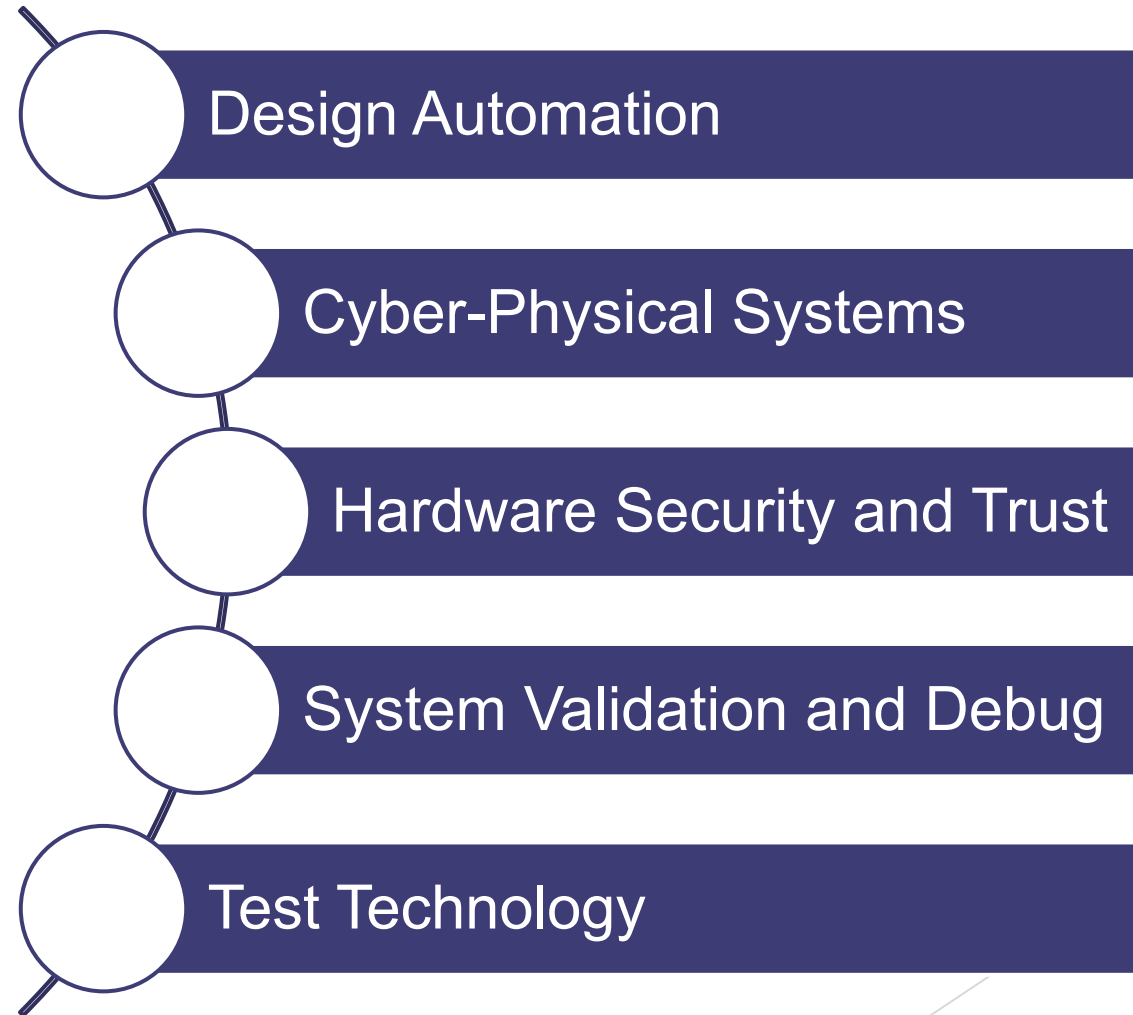
Member Societies



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.



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

14

Student Chapters

13

Countries

5

IEEE Regions

Updated: March 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

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

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)

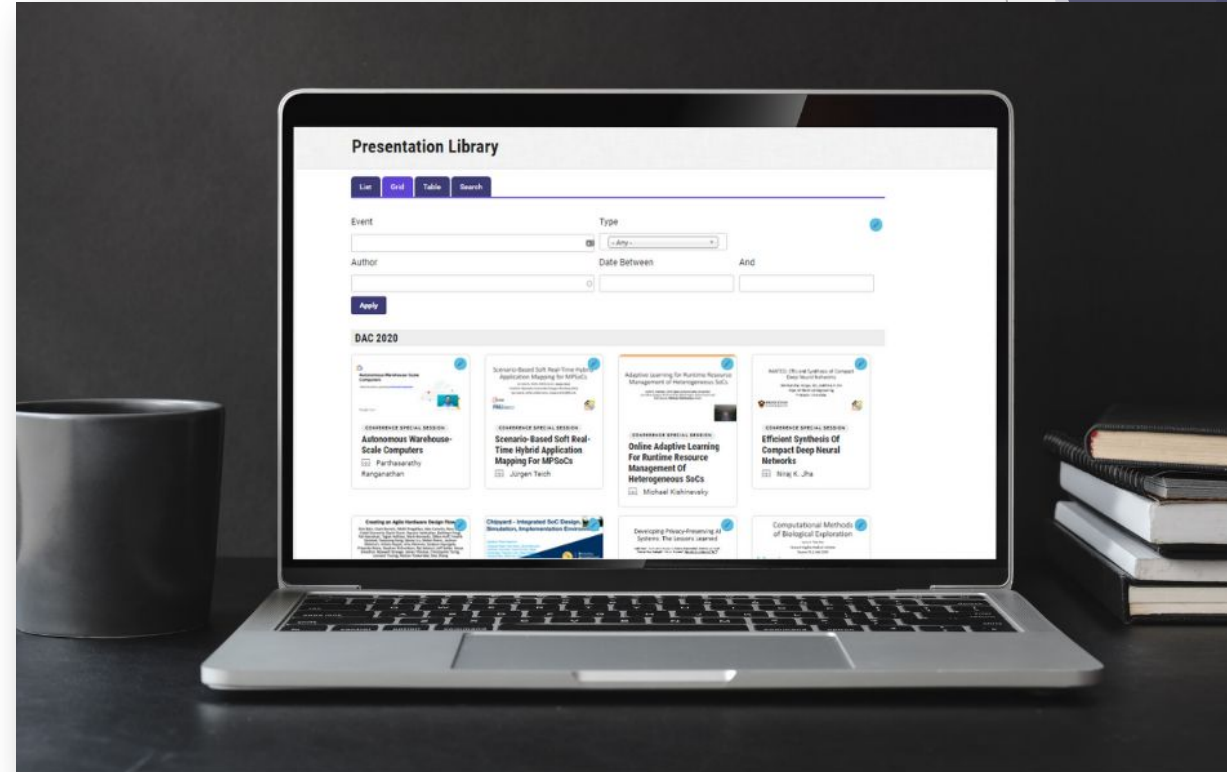


***Currents* - CEDA's Newsletter**

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.



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

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



Stay up to date on all
CEDA news and
events!



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