

CEDA Board of Governors Committee Meeting
23 June 2024 | 1:00 PM - 5:00 PM PT

Attendees: Cristiana Bolchini, Deming Chen, Ibrahim Elfadel, Georges Gielen, Joerg Henkel, Tsung-Yi Ho, Jiang Hu, Iris Hui-Ru Jiang, Gi-Joon Nam, Ian O'Connor, Sri Parameswaran, Jose Rayas-Sanchez, Jose Schutt-Aine, L. Miguel Silveira, Mehdi Tahoori, Atsushi Takahashi, Vivek, Tiwari, Kazutoshi Wakabayashi, Qi Zhu

Virtual: Shankar Hemmady, Chinna Prudvi, Gang Qu, Elena-Ioana Vatajelu

Staff: Amanda Osborn, Laura Paul

The meeting was called to order at 1:15 PM PT. The roll was called, and introductions were made.

MOTION: Cristina Bolchini moved to approve the June 2024 BoG meeting agenda. Ian O'Connor seconded. Motion passed.

Finance – Bolchini (see Finance report attachment)

The closing 2023, current 2024, and forecasted 2025 numbers were presented to the BoG.

Closing 2023 Numbers

- Net Actual (\$1,321,245.53)
- Reserves (\$5,010,000.00)

2024 Status

Student Travel Grant Program numbers are up, and the Distinguished Lecturer Program should increase spending towards the end of the year once the new DL class is announced.

2025 Planning

MOTION: Cristiana Bolchini moved to approve the 2025 IEEE CEDA budget. Georges Gielen seconded. Motion passed.

Publications – Henkel

TCAS-AI

The first issue will launch in September 2024. Yiran Chen is the Editor in Chief, and David Atienza serves as Associate EiC. The submission portal was launched on 17 May 2024, and 35 submissions have already been received.

TCAD

The current acceptance rate is 33% and TCAD has been rated a top-tier journal for four consecutive quarters. The Editorial Board welcomed 28 new Associate Editors in 2024, specifically increasing diversity in Region 10.

IEEE TCAD Donald O. Pederson Best Paper Award winners for 2024:

- PACT: "An Extensible Parallel Thermal Simulator for Emerging Integration and Cooling Technologies" by Zihao Yuan, Prachi Shukla, Sofiane Chetoui, Sean Nemptzow, Sherief Reda, and Ayse K. Coskun, which was published in IEEE TCAD, vol. 41, no. 4, pp. 1048-1061, April 2022.
- An Open-Source Framework for FPGA Emulation of Analog/Mixed-Signal Integrated Circuit Designs, by Steven Herbst, Gabriel Rutsch, Wolfgang Ecker, and Mark Horowitz, which was published in IEEE TCAD, vol. 41, no. 7, pp. 2223-2236, July 2022.

D&T

The goals for 2024 are to increase the quality and submission rates of general interest papers and decrease the turnaround time for editors' notes on accepted papers. Several ideas have been floated regarding video roundtable events for the D&T website to increase publicity on the D&T website.

ESL

ESL has the fastest decision time in all of IEEE. The current goals are to increase the submission number to 1000 and the impact factor to 4 by 2028, and to be able to promise the submitting authors a one-month review cycle. The submission-to-final decision timeline has decreased by 50% since 2020 to a current average of 5.2 weeks. There are ongoing discussions regarding moving ESL to a bimonthly publication. Further research and discussions are needed before any action is taken.

Education and Engagement Activity - Bolchini

Cristiana shared with the BoG that Enrico Macii would lead this activity. The project aims to encourage students to explore and enroll in EDA courses

Plans for this activity include organizing an educational program with several local high schools in Italy, as a joint effort with Politecnico di Torino and Politecnico di Milano, and publishing guidelines for other universities to use for small competitions and events. Long-term discussions include working with conferences to promote these activities and increase student engagement. The initial pilot implementation of the program is planned for October 2024, with additional plans to scale the project globally by the Fall of 2025.

A few challenges to note are the selection of feasible design tools and ensuring that education credits for the student are accounted for appropriately. The LATTICE Tool Suite has been selected as the primary design tool. Working with the high schools to ensure proper education credits is ongoing.

There have already been discussions about eventually expanding this activity to other regions. Jose Rayas-Sanchez identified Region 9 as a potential area of interest, with Costa Rica and Guadalajara as focus centers.

Conferences - Ho

TY shared that 17 financially-sponsored and 10 technically-sponsored conference MOUs have been signed since January of 2024.

DAC

Paper submissions are up by over 34% from 2023, which is a record high for DAC. Additionally, the Technical Program Committee has increased its membership by 34%.

DATE 2025

The location for DATE 2025 was announced as Lyon, France. Conference dates are planned for 31 March – 2 April.

ICCAD

Paper submissions have increased by 28% since 2022 and by 7% since 2023. The conference will be held in Newark, New Jersey, US.

ESWEEK

Christian Pilato was announced as the new CEDA ESWEEK representative.

ASP-DAC

The location for ASP-DAC 2025 was announced as Tokyo, Japan. Conference dates are planned for 20-23 January 2025. Joerg and Ian discussed organizing a Distinguished Speaker Luncheon at ASP-DAC. There are several

barriers to this, including the lack of venue space and no availability to serve lunch. Further discussions will take place offline.

Awards - Chen

Welcome to Iris Bahar, the new Assistant VP Awards. Iris will be leading the Kuh Award Selection Committee.

Chapter of the Year Award

MOTION: Deming Chen moved to approve the new CEDA Chapter of the Year Award for a \$1,000 honorarium for up to two chapters per year. Jose Rayas-Sanchez seconded. Motion passed.

In addition to the chapter award honorarium, each winning chapter may submit for reimbursement up to \$1,000 to support travel to the ceremony at which the award is presented. The additional travel funds require pre-approval from the President.

Phil Kaufman Award

The application deadline is 30 June 2024.

Activities - O'Connor

Chapters

Ian identified several geographical areas of focus for new CEDA Chapters. The 2024 Chapter Meeting will be held at the InterContinental San Francisco on Monday, 24 June 2024, and all BoG members are welcome. A virtual-only Chapter meeting will be held later in the year to accommodate the Chapters that cannot attend this one. Activity planning proposals will be solicited soon for 2025.

Distinguished Lecturer Class of 2024-2025

The new class has been selected and will be available to schedule talks after 1 August 2024.

- Ricardo Reis, UFRGS, Brazil
- Sudeep Pasricha, Colorado State University, USA
- Bei Yu, CUHK, Hong Kong
- Alberto Bosio, ECL, France

2024 VDL Program

Laura is working to schedule monthly VDLs beginning in September. TY will moderate these talks.

ICCAD Distinguished Speaker Luncheon

The event is planned for Tuesday, 29 October 2024, and Sachin Sapatnekar, University of Minnesota, will be the featured speaker.

Publicity - Parameswaran

CAT2 Website Launch

The new CEDA website went live on 16 May 2024. Sri encouraged the BoG to explore the website and review the social media pages.

Newsletter

Sri shared the email schedule for CEDA Currents and Community Calls. Laura reminded the BoG to submit content to be included.

Sri shared ideas to increase publicity for CEDA: increase social media content across all platforms, promote CEDA brand awareness with students and young professionals, and develop further website content (interviews, videos, etc.).

Initiatives - Zhu

ML EDA

Qi shared information regarding SLICE: Shared Machine Learning Infrastructure for the Community of EDA initiative. The goal of the initiative is to build open-source infrastructure for the EDA community

Smart Cities

The Smart Cities Technical Committee has requested a promotional liaison representative from CEDA to cross-promote Smart Cities and CEDA activities. Additionally, they asked for two CEDA volunteers to develop technical tracks on multi-OU subjects.

IEEE New Initiative Program

Proposals are being solicited to increase IEEE's connectivity to Industry, engage new members, create educational opportunities, and increase IEEE's visibility.

Young Professionals – Jiang

Iris announced the YP subcommittee members and shared information regarding the co-sponsored Student and Young Professional activities at DAC. The committee worked with SIGDA to present Early Career Workshops, a PhD Forum, University Demonstrations, and a System Design Contest. Additional co-sponsored events are planned for SMACD, ESWEEK, and ICCAD, and CEDA will fully sponsor the CAD Contest at ICCAD.

Iris proposed increasing allocated funds for Student Travel Grants at ESWEEK and ICCAD, and adding additional funding for CEDA-sponsored workshops and ad-hoc requests in 2025. Discussions took place regarding the 2025 budget and it was confirmed that these requests can be accommodated within the newly approved budget.

Technical Committees

Hardware Security and Trust Technical Committee (HSTTC)

Gang shared details regarding the events and activities HSTTC supports. The Asian Hardware-Oriented Security and Trust Symposium will be held in Kobe, Japan in December 2024. In 2023, they had 90 attendees and over 60 submissions for the TCAS-I special issue. The Top Picks in Hardware and Embedded Security Workshop and Sustainable Hardware Security Workshop are co-located events with ICCAD and have received a lot of Industry attention and engagement. The CADforAssurance webinars are an ongoing project that the Florida-based volunteers manage.

HSTTC plans to announce its advisory board soon and is working towards appointing officers. The committee's goals are to increase the number of tutorials and special sessions at top conferences, establish an in-person student-oriented activity to be co-located with a top conference, and increase awareness of HSTTC.

System Validation and Debug Technology Council (SVDTC)

Chinna shared that upwards of 100 volunteers are currently participating. The current projects of focus are the IEEE P2929 Scan and Array Debug Standards Working Group and the IEEE SVDTC AI/ML for Validation Working Group, where volunteers are investigating challenges and providing feedback for these working groups. SVDTC is working towards increasing volunteer engagement, specifically outside of the US, completing the AI/ML White-Paper project, additional progress on the P2929 Standards, and increasing participation within Academia.

Member Societies

Circuits and Systems Society

2024 is the 75th anniversary of CASS, and a large celebration event was held during their flagship conference (ISCAS) in Singapore. Over 1,500 paper submissions were received for ISCAS, and several student design contests were held.

Computer Society

Shankar shared that CS has 375,000 members, representing 157 countries. CS is focused heavily on development with over 200 Standards Working Groups and 30 technical committees, with the best opportunities for CEDA collaboration being with the Design Automation Standards Committee and the Test Technology Standards Committee. CS co-organizes 195 conferences per year, with several that are co-sponsored with CEDA (COINS, DTTIS, ETS, and IOLTS).

Electronics Packaging Society

Jose Schutt-Aine shared that EPS currently has over 2,800 members, with 43 chapters, 36 student chapters, and 12 technical committees. An important EPS outreach area is the IEEE Heterogeneous Integration Roadmap, where the Electrical Design Modeling and Simulation (EDMS) Technical Committee has developed workshops and seminar presentations. EPS has published four peer-reviewed Packaging Benchmarks, offers a Distinguished Lecturer Program and various educational webinars, and has developed special sections for IEEE Transactions on Components, Packaging, and Manufacturing Technology. The three flagship conferences are ECTC (US-based), EPTC (Asia-based), and ESTC (Europe-based). In addition, EPS sponsors several EDA-related workshops (EPEPS, SPI, EDAPS, and DTIMES), which provide opportunities for special session cross-overs with CEDA.

Microwave Theory & Technology Society

Jose Rayas-Sanchez shared that MTT-S is a member society of seven IEEE Councils and has an Inter-Society Committee to cultivate the relationships between MTT-S, the Councils, and other technical societies. Miguel was welcomed as a special guest during the Fall 2023 AdCom meeting in Porto, Portugal. MTT-S has 29 technical committees, with several specifically aligned in focus with CEDA. The most closely related conferences to CEDA are the NEMO (to be held in Montreal, Canada in August 2024) and LAMC (to be held in San Juan, Puerto Rico in January 2025) conferences.

The International Microwave Symposium was held in Washington D.C. last week and several special sessions related to CEDA were presented, including a memorial special session in tribute to Dr. John Bandler, a pioneer in CAD techniques, and an AI/ML Boot Camp session for students and young professionals interested in using AI/ML for microwave applications.

Solid State Circuits Society

Vivek shared that there is a percentage of overlap between SSCS members and CEDA participants, which has fostered collaboration between the two organizational units. SSCS has included the latest CEDA newsletter in their seasonal magazines and will incorporate a short article by Vivek to explain the relationship to the magazine subscribers. Moving forward, SSCS is interested in sharing more information about CEDA with its membership and increasing technical collaboration within the circuits and EDA communities, specifically as it relates to “Generative AI for Circuit Design.” Miguel noted the possibility of collaboration with the newly formed AI Coalition.

Strategy - Gielen

Georges shared several ideas for enhancing value to CEDA participants. Discussion items included expanding targeted promotions to students and young professionals, increasing Chapter numbers and local activities, and growing CEDA’s online presence through more active social media. Discussions were held regarding CEDA’s use of

social media and the possibility of creating social media pages for each chapter to manage, or for each region to manage. Laura noted that CCLLC could not manage accounts for all of the chapters; however, all are encouraged to submit event reports and content to be shared on the CEDA social media pages and in the newsletters.

20th Anniversary

2025 is the 20th anniversary of CEDA. Georges, Miguel, and Cristiana met and brainstormed several ideas for promotional activities and celebratory events. Discussions were held regarding producing web and social media video content (i.e. short video interviews with EDA experts and longer “history of CEDA” webinars), developing a trivia quiz game for each of the flagship conferences to engage attendees and promote CEDA brand awareness, creating a “Best of” webpage on the CEDA website to display highlighted conference papers, and possibly planning a large-scale celebration at ICCAD 2025.

Miguel invited enthusiastic participants to volunteer to assist with the 20th-anniversary activities and events.

Admin Updates

Laura encouraged the BoG to engage with CEDA’s social media and asked the member society representatives to send in their society’s flagship conference details to be shared on the website.

MOTION: George Gielen moved to adjourn the meeting. Jose Rayas-Sanchez seconded. The motion passed.

The meeting was adjourned at 5:13 PM PT.