CEDA Board of Governors Meeting
Virtual Meeting (DAC 2021)
5 December 2021 | 1:00 – 5:00 pm PT

Attendees: Mohammad Al Faruque, David Atienza, Cristiana Bolchini, Dennis Brophy, Yao-Wen Chang, Giorgio Di Natale, Agnieszka Dubaj, Luca Fanucci, Georges Gielen, Jinwook Jung, Enrico Macii, Sankaran Menon, Subhasish Mitra, Gi-Joon Nam, Sri Parameswaran, Vasilis Pavlidis, Chinna Prudvi, Gang Qu, Ricardo Reis, José Schutt-Ainé, Dimitrios Serpanos, L. Miguel Silveira, Vivek Tiwari, Kazutoshi Wakabayashi, Marina Zapater, Qi Zhu

Staff: Dana Mallett and Amanda Osborn

Gi-Joon called the meeting to order at 1:05 PM PT. The meeting was originally was planned to be held in-person but several members had to cancel their travel plans due to COVID. Roll call was conducted. Quorum was confirmed.

MOTION: David Atienza moved to approve the 2021 Board of Governors meeting agenda as written. Dennis Brophy seconded. Motion passed.

Presidents Report (Chang)

Yao-Wen provided a summary of CEDA's current situation. COVID-19 will likely continue to impact conferences and meetings into 2022.

The SCRC review was held in June 2021. The Vice Presidents composed a thorough report in their respective areas. CEDA is healthy. Suggestions included the publications editorial boards need more gender diversity. The next review will be in 2026.

Nominations and Appointments (Atienza)

The CEDA Executive Committee changes every two years. David reviewed the proposed slate for 2022-2023 from the N&A Committee. The term limits are two years and can be renewed once for a total of four years. There were no nominations from the floor.

MOTION: The Nominations and Appointments Committee moved to approve the 2022-2023 CEDA Executive Committee slate. Motion passed.

> President – Gi-Joon Nam
> President-Elect – Miguel Silveira
> Past President – Yao-Wen Chang
> Secretary – Elena Ioana Vatajelu / Assistant Secretary – Masanori Hashimoto
> VP Finance – Marina Zapater / Assistant – Jiang Hu
> VP Activities – Tsung-Yi Ho / Assistant – Vasilis Pavlidis
> VP Awards – Georges Gielen / Assistant – Tulika Mitra
> VP Conferences – Cristiana Bolchini / Assistant – Mehdi Tahoori

MOTION: The Awards Committee moved to appoint Deming Chen, University of Illinois at Urbana-Champaign, as the IEEE CEDA Fellows Evaluation Committee Chair for 2022. Motion passed.

Governing Docs (Dubaj)

There was a discussion held about removing the listing of the Technical Committees from the Bylaws so that it is easier to add/remove MTOs without having to formally change the governing documents with IEEE.

MOTION: Agnieszka Dubaj moved to approve the removal of the listing of Member Technology Organizations from the IEEE CEDA Bylaws. David Atienza seconded. Motion passed.

Finance (Bolchini)

Cristiana Bolchini reviewed the 2022 Budget. There were few changes from 2021. It has been approved by IEEE. New initiatives such as the Rebooting Computing are under the Projects line.

Action Item: Cristiana Bolchini to add Hardware Security and Trust Technical Committee (HSTTC) to the budget under Technical Committees.

Strategy (Macii)

The purpose of the VP Strategy is to lead the definition of the CEDA strategy in the upcoming 5-year period. For 2020-21, the primary activities included identifying scientific and technical areas in which the EDA community can expand its influence and involvement; and implement actions to allow the EDA community to penetrate new domains such as Industry 4.0. Other initiatives were discussed but not carried out due to COVID.

For 2022-2023, CEDA to drive global innovation through sharing of knowledge, enhance public understanding, become a trusted source of educational services, and offer career and professional development opportunities. Enrico reviewed two implementation plans.

Enrico is looking to form the Strategy Committee by February 2022.

Action Item: EC and BoG members to submit potential candidates' names, CVs, statements of motivation to Enrico Macii to serve on the 2022 CEDA Strategy Committee.

Conferences (Fanucci)

Luca provided an updated on the five flagship conferences: DAC, ASP-DAC, ICCAD, DATE, ESWEEK. There are 21 financially and 6 technically sponsored conferences. Most of the 2021 conferences were held virtually due to COVID. Some were able to be held in a hybrid format such as ICCAD 2021. Luca reviewed the financial performance and paper submissions data for the flagship conferences.

Initiatives (O'Connor)

Ian provided a recorded presentation. He reviewed the members of the initiatives committee and the current initiatives they are responsible for. He reviewed the current status report and activities of the current initiatives: Smart Cities, Brain, IoT, Rebooting Computing, and Future Networks. Rebooting Computing was turned into a task force in 2021. TC 2.0 is an IEEE Initiative for 2022. There have been discussions of transforming IoT from an Initiative to a TC 2.0 or to be a Council.

CEDA needs to determine how long it will financially support each of these initiatives in respect to CEDA's goals. After three years, initiatives become part of the regular budget.

Activities (Ho/Pavlidis)

Currently, there are 16 chapters and 4 student branch chapters. There have been ongoing discussions about creating new chapters in India. CEDA needs to continue to nurture and mature the chapters with their technical activities. Tsung-Yi is planning a chapter chair meeting in 2022. Only a few chapters requested funding support due to COVID limiting activities.

The Distinguished Lecturer Program is growing. Mehdi Tahoori was the DL chair in 2021 and hosted 7 virtual DL webinars with nearly 650 attendees from 47 countries. Helen Li will be the next DL Chair in 2022-2023.

There are five technical committees: DATC, SVDTC, TCCPS, TTTC, and HSTTC. HSTTC was added in 2020.

The CAD for Assurance webinar series was developed in 2021 and led by Gang Qu, Tsung-Yi Ho, and Yier Jin from CEDA. It was successful with 10 talks with about 725 attendees from 30 countries.

The action items for 2022 including DAWN, Open-Source EDA Event, outreach on emerging topics at Summer/Winter schools and contests, and develop a job fair.

Publicity (Pavlidis)

CEDA sends out periodic communications via Community Calls, *Currents*, etc. A publicity policy was established to manage the number and types of requests. Future considerations include expanding the presentation library content and social media presence. The *Currents* newsletter participation has risen and content has been enriched and diversified. Social media engagement is low.

Publications (Silveira)

Miguel reviewed the Publications Committee and EiCs. CEDA is the sole financial sponsor of ESL and TCAD; a financial co-sponsor of D&T, JxCDC, and TSPI; and a technical co-sponsor of TSUSC. TCAD and ESL are online only. D&T will move to online only in 2022. Miguel reviewed the current status and action items for the sponsored publications. Continuing to monitor and discuss Open Access. The journals to take into account the feedback received during the SCRC Review.

- ESL is performing well; renewed its editorial board including EiC Preeti Ranjan Panda for a second, 2-year term; and are creating 3-minute video previews in 2022.
- TCAD appointed a new EiC, David Atienza, who will start in 2022. Its impact factor is up to 2.807. TCAD is working to streamline areas and reduce its backlog.
- CEDA sponsoring the new Transactions on Signal and Power Integrity (TSPI) and is actively participating on the Steering Committee. They are in the process of setting up their editorial board.
- D&T appoint a new EiC, Partha Panda, who will start in 2022. D&T is in excellent shape. They conducted a survey but received few responses.
- JxCDC showing encouraging signs. The new EiC made many changes. They are looking to onboard EDS. It should qualify for an impact factor in 2022.

Standards (Brophy)

CEDA added a Standards Committee in 2021. Dennis serves as the CEDA SC Open-Source Maintainer. Held and IEEE SA Open webinar with CEDA Asia Chapters in August. Plan to work with chapters in Europe (Winter 2022) and North America (Summer 2022 at DAC). Dennis reviewed the current possible Standards and related challenges with each. Looking to create first CEDA Standard or co-sponsored Standard.

Aparna Dey will be the VP Standards in 2022. Looking to remain connected and committed to CEDA SC and drive adoption of the IEEE SA Open platform

Awards (Mitra)

Subhasish and the Awards Committee have worked the last several years to increase the number of nominations for CEDA Awards such as Newton and Kaufman Awards. CEDA and ESDA developed the Phil Kaufman Hall of Fame recognition in 2021. The Kuh Award has a good pool of nominations. Georges Gielen will be the VP Awards in 2022.

Young Professionals (Zhu)

Qi reviewed the YP Committee members. Their activities included conference activities, online forums/presentations, and the student travel grant program. COVID postponed the travel grant program and events. YP hosted an early career program at DAC. They are looking to expand conference activities; and facilitate industry-academic communication and academic career preparation for YPs.

Member Technology Committees

Design Automation TC (Jung)

Jinwook was named as chair in 2021. DATC goals is to provide a forum for discussing strategies/issues in design automation. Their primary task is DATC Robust Design Flow (RDF). New initiatives include METRICS2.1, FlowTuner, and Calibration repository. They organized two invited paper presentations and organized a special session at ICCAD 2021. They will provide a tutorial at ASP-DAC 2022. They are looking for new members and exploring future directions.

Hardware Security and Trust TC (Qu)

HSTTC was formed in July 2020. Gang reviewed the missing and purpose of the TC. It sponsors the IEEE AsianHOST and is involved with ITC-Asia, SOCC, ASP-DAC, HOST, and ICCAD. They hosted a webinar "Top Picks" at ICCAD. They organized the CAD for Assurance webinars and are developing an online database of papers, benchmarks, and tools. Challenges include lack of in-person events and lack of journal publication venues. They are looking for more volunteers and increasing outreach.

Action Item: Gang Qu to follow up with Subhasish Mitra and Sankaran Menon regarding getting industry more involved with security and hardware.

Systems Validation and Debug TC (Prudvi)

SVDTC was formed in 2016 and has been primarily working on papers, tutorials, and student awards. In 2021, they published a white paper, created a working group, held invited talks, and meets twice a month. Looking to make progress on P2929 standards, AI/ML working group, and expand SVDTC activities with paper awards and conference participation.

TC on Cyber-Physical Systems (Hu) - Did not present.

Test Technology TC (Di Natale)

Giorgio reviewed the goals of the TC. They have about 5,000 members. They expanded their topics beyond test to cover all aspects of dependability with workshops and many conferences. The TC is developing the Test Technology Educational Program that provides opportunities for design and test professionals. TTTC initiated working groups for standards including the 1149 series. TTTC recognizes its members through its active awards program.

Member Societies

APS (Xue) - Did not present.

CAS (Reis)

CAS is doing well and focused on improving its sponsored journals impact factors. They have been publishing extended versions of the best papers from its flagship conference, which improved the quality of papers for the conferences and journals. Main activities are to promote seasonal schools and student travel awards.

Action Item: Ricardo Reis to send Amanda Osborn the CAS report.

CS (Serpanos)

The CS BoG met in November 2021 and presented about CEDA. CS launched its Distinguished Contributor Program. CS looking to collaborate with CEDA in emerging technical areas and CEDA standards activities especially in AI Hardware, Cyber Security, CAD for AI, etc.

EPS (Schutt-Aine)

EPS launched the Distinguished Certificate Program, Heterogenous Integration Roadmap in 2021, and Resource Center. They have been expanding their student branch chapters. EPS sponsors a number of conferences that focus on electrical performance of packages including EDAPS, EPEPS, and SPI. Most of their conferences were held virtually.

SSCS (Tiwari)

Bryan Ackland stepped down as CEDA Rep for SSC and Vivek will now serve as the voting member. SSCS is financially strong with $12M in reserves which has allowed them to be active with its initiatives. The key areas of focus in 2021 were the Platform for IC Design Outreach Program, new awards, online mentoring, education fund, and diversity in leadership and membership. SSCS looking for more opportunities to collaborate with CEDA.

Action Item Review (Dubaj)

Action items to be sent out after the meeting.

The next BoG meeting will be held at DAC in San Francisco, CA, USA on Sunday, 10 July.

MOTION: Agnieszka Dubaj moved to adjourn the meeting. Ricardo Reis seconded. Motion passed.