Apr 27, 2022 | **First Meeting for CTSoC IoT Technical Committee Members**

Attendees:
Dr. Liang-Bi Chen  
Dr. Thinagaran Perumal  
Dr. Aaron Raymond See  
Dr. Toshitaka Tsuda

Action items
- Officer Introduction
- Opening Remarks
- Technical Committees Introduction
  - Provided overview of the history and responsibilities of the TC
- TC Members Self-Introduction
- Discuss Open Positions to Serve as an officer for the IoT TC
  - Open survey via Google Forms for the positions
  - If more than two persons are applying for one of the open positions, all members will vote for candidates.
- Discussion and Q&A
  - We are grateful for the presence and support of Prof. Tsuda who is a Fellow of IEEE, an Honorary member and Fellow of Institute of Electrical Information and Communication Engineers (IEICE), past Chairman of IEEE Tokyo Section, and former President of IEICE. We look forward to having more engagements with Japan's IEICE in the future.

Meeting ended at 20:00 Taipei Time
IEEE Consumer Technology Society (CTSoc)

Technical Committee on IoT

2022 1st Call Meeting of IOT TC Members
April 27, 2022 7:30 P.M.–8:30 P.M. (CST)

Liang-Bi Chen, Chair
National Penghu University of Science and Technology, Taiwan

Thinagaran Perumal, Vice Chair
Universiti Putra Malaysia, Malaysia

Aaron Raymond See, Secretary
Southern Taiwan University of Science and Technology, Taiwan
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Officer Introduction

- **Chair:** Dr. Liang-Bi Chen  
  - National Penghu University of Science and Technology, Taiwan

- **Vice Chair:** Dr. Thinagaran Perumal  
  - Universiti Putra Malaysia, Malaysia

- **Secretary:** Dr. Aaron Raymond See  
  - Southern Taiwan University of Science and Technology, Taiwan
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OPENING REMARKS
Chair: Dr. Liang-Bi Chen
OPENING REMARKS

Vice Chair: Dr. Thinagaran Perumal
OPENING REMARKS

Secretary: Dr. Aaron Raymond See
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Technical Committees (TCs)

- Idea which originated during ICCE Berlin in September 2019
  - Need for a tool that could be used, e.g., to help the creation of Committee(s) of next conferences, organize special sessions, propose speakers, support the review process, etc.

- CTSoc BoG Meeting January 3, 2020
  - Forming of Society Conferences Technical Streams Committee (SCTC) chaired by Prof. Fabrizio Lamberti, Italy

- CTSoc BoG Meeting May 7, 2020
  - Update: Presented an approach based on data available for conferences

- CTSoc BoG Meeting July 9, 2020
  - Update: Presented results from data processing
Technical Committees (TCs)

14,291 users

16,353 reviews

7,211 papers

791 chairs

4,149 reviewers
Technical Committees (TCs)

- Established 14 TCs
  - Application-Specific CE for Smart Cities (SMC)
  - Audio/Video Systems and Signal Processing (AVS)
  - Automotive CE Applications (CEA)
  - Consumer Power and Energy (CPE)
  - Consumer Systems for Healthcare and Wellbeing (CSH)
  - Entertainment and Gaming (ENT)
  - Human-Machine Interaction and User Experience (HMI)
  - Internet of Things, Internet of Everywhere and Edge Computing (IOT)
  - Machine learning, Deep learning and AI in CE (MDA)
  - Security and Privacy of CE Hardware and Software Systems (SPC)
  - Sensors and Actuators (SEA)
  - Smartphone and Mobile Device Technologies (MDT)
  - Virtual Reality, Augmented Reality and Displays (VAR)
  - Wireless, RF and Network Technologies (WNT)
Technical Committees (TCs)

Established 14 15 TCs

- Application-Specific CE for Smart Cities (SMC)
- Audio/Video Systems and Signal Processing (AVS)
- Automotive CE Applications (CEA)
- Consumer Power and Energy (CPE)
- Consumer Systems for Healthcare and Wellbeing (CSH)
- Entertainment and Gaming (ENT)
- Human-Machine Interaction and User Experience (HMI)
- Internet of Things, Internet of Everywhere and Edge Computing (IOT)
- Machine learning, Deep learning and AI in CE (MDA)
- Quantum in Consumer Technology (QCT)
- Security and Privacy of CE Hardware and Software Systems (SPC)
- Sensors and Actuators (SEA)
- Smartphone and Mobile Device Technologies (MDT)
- Virtual Reality, Augmented Reality and Displays (VAR)
- Wireless, RF and Network Technologies (WNT)

New TC on Quantum in Consumer Technology recently launched
Technical Committees (TCs)

- **July–August 2020**
  - Invitations sent out to potential members, selection based on performance metrics on services offered to CTSoc
  - Initial allocation of members to a given Technical Committee proposed based on information automatically extracted from conference papers
  - Appointed three Officers per Committee (Chair, Vice-Chair and Secretary)

- **Kickoff meeting October 19, 2020**
  - VP Technical Activities with the Officers of the 14 TCs

- **November 2020 - today**
  - Meetings of individual TCs (Officers and members)
  - Business of the TCs in all the areas of CTSoc
TCs on CTSoC website
Technical Committees (TCs) are established to promote technical activities in the fields of interest of the Society and to position the Society as the leading technical organization for consumer technology professionals.
Organization of CTSoc Technical Activities area

CTSoc Technical Activities area

VP Technical Activities

Technical Committees Board

Report to

15 Technical Committees

VP Technical Activities

Report to

Future Directions Committee

Technical Committees Board

VP of Technical Activities (Chair)
VP Conferences
VP Publications
VP Industry & Standards Activities
CTSoc President

Officers of the 14 TCs
The responsibilities of the Technical Committees (TCs), Technical Committees Board (TC Board) and the VP of Technical Activities are included in the new version of the CTSoc Bylaws and Constitution.

Detailed Policies and Procedures (P&Ps) are illustrated in the section of CTSoc Operations Manual devoted to Technical Activities.
Technical Committees P&Ps

- Term for Chair, Vice-Chair and Secretary offices is two years, with election after the first term
- IEEE/CTSoc membership not required for being a member of a Technical Committee
- Starting January 2023, IEEE/CTSoc membership will be needed to have voting rights/be elected and have access to some of the opportunities offered by Technical Committees
Technical Committees P&Ps

- New Technical Committees can be proposed (e.g., by CTSoc members), and existing Technical Committees may be merged, modified, or dissolved as necessary to ensure continued relevance and effectiveness.
- Technical Committees may form Subcommittees and Special Interest Groups (SIGs).
- Technical Committees can have members serving in Liaison positions (Conferences Liaison, Publications Liaison, Education Liaison, etc.).
- Technical Committees shall meet at least two times per year (around January and around June) to discuss the status of their technical activities.
- Each Technical Committee has a dedicated page on CTSoc website, with information about officers, scope, P&Ps, membership information, and minutes of meetings held.
CPE TC page

Consumer Power and Energy (CPE)

Mission and Objective

The mission and objective of the IEEE CTSoc Consumer Power and Energy Technical Committee (CPE TC) is to implement the field of interest of the IEEE CTSoc and to assist, support, endorse, corroborate and strengthen IEEE CTSoc conferences, publications, standards, education, future directions, new initiatives, emerging technologies, technical sessions, workshops, and research, and other information exchanges in the area of on consumer devices connectivity, architectures, applications, with a particular focus on energy management, power systems, residential nano grids, residential production and storage systems.

CPE TC is a cluster of engineers, practitioners, technologists, scientist, researchers from industry and academia from around the world.

The committee also assumes the proactive duty to recommend suitable candidates from CPE TC members to serve as:

- Chairs and or Members of Technical Program Committees (TPC) of CTSoc Conferences (ICCE-Las Vegas, ICCE-Berlin, ICCE-Taiwan, ICCE-Asia, GCCE-Japan, ISCT, and GEM).
TCs and their objectives

General

- Support CTSoc’s technical activities in the areas of conferences, publications, standards, and education, and history
- Investigate, evaluate, promulgate and foster current and emerging technologies and applications of interest to CTSoc
- Create additional Technical Committees for technologies of interest to CTSoc and conduct periodic and special technical meetings as directed by the BoG
- Support development of new cross-cutting initiatives in collaboration with other Technical Committees of CTSoc, and, as appropriate, with other IEEE Society/Council Technical Committees and IEEE organizational units
- Define new areas of technology focus and encourage formation of new initiatives through the CTSoc’s Future Directions Committee (FDC)
TCs and their objectives

Specifically, e.g., about conferences

- Invite qualified individuals from both industry and academia to consider joining the Technical Committees
- Review and approve – as recommendations for approval by the SCSC and then BoG – the Call for Papers (CFP) of conferences
- Support conferences by contributing papers and providing reviewers
- Provide publicity for submission of papers and other participation in conferences
- Recommend conferences’ Technical Program Committee Chair(s)
- Provide conference Track and Session Chairs
- Collect proposals for the hosting of conferences as well as for academic and industry conference speakers
TCs and ICCE 2022 (Las Vegas) topics

We are calling for Technical Papers in the following Regular Tracks:
- Security and Privacy of CE Hardware and Software Systems
- Internet of Things, Internet of Everywhere, and Edge Computing
- Consumer Power and Energy
- Consumer Systems for Healthcare and Wellbeing
- Machine Learning, Deep Learning and AI in CE

Please submit using the paper handling system on our website.

- Application-Specific CE for Smart Cities and 5G
- Audio/Video Systems and Signal Processing
- Human-Machine Interaction and User Experience
- Smartphone and Mobile Device Technologies
- Virtual Reality, Augmented Reality, and Displays

- Sensors and Actuator Systems
- Entertainment and Gaming
- Automotive CE Applications
- RF, Wireless, and Network Technologies

Publication in the Conference Proceedings and IEEE Xplore requires authors to register under ONLY the “Full” registration category. Authors with multiple papers must register each separately with the requisite fee. A select few paper authors with highest reviews may be invited to submit enhanced journal-quality papers to special issues of peer-reviewed journals (e.g., IEEE Transactions on Consumer Electronics and IEEE Consumer Electronics Magazine). For the details and updates, please visit the conference website.
Applications data collected through the form (managed by SmartSheet) will be sent to TCs, which will need to approve new members.
Opportunity for/Invitation to TCs to periodically share information to be published on CTSoC social channels.
Opportunities for TC membership (examples)

- **ICCE 2022 Las Vegas - Call for Track Chairs**
  - A call for participation as Track Chair in the flagship IEEE ICCE 2022 in Las Vegas was shared within the TCs. All the applicants were invited by Conference Executive Chair to serve as either Track Chairs for the Technical Program, or Topical Area Chairs for the Industry Forum.

- **ICCE Berlin 2021 - Call for Technical Positions**
  - A call for participation as TPC Chairs, Publications Chair, Tutorials Chair and Workshops Chair in IEEE ICCE Berlin 2021 conference was shared within the TCs. TC Chairs voted the received applications, and six names were ultimately selected by the Conference Executive Chair.

- **ICCE Berlin 2021 - Call for TPC Members**
  - A call for participation as members of the ICCE Berlin 2021 Technical Program Committee (TPC) was shared within the TCs. Names coming from TCs were invited.
Opportunities for TC membership (examples)

- IEEE Access CTSoc section - Call for Associate Editors
  - Many nominations were received from TCs, 8 names selected, 4 coming from TCs
  - Other names received from TCs invited to serve in the Editorial Board of News in Consumer Technology (NCT)

- Collected proposals to organize conferences
  - Three groups expressed their interests to host next editions of GEM conference
  - Discussion started, managed by VP Conferences. Meanwhile, a GEM session has been organized at IEEE ICCE Berlin 2021

- TCs collected expressions of interest from members interested to deliver webinars for CTSoc (channel). Names passed to VP Education who organized the webinars.

- TCis identified speakers for a webinar to be organized in Spring 2022 in collaboration with AES (Audio Engineering Society) and IEEE SPS
Webpage on TC outcomes and opportunities

- A webpage has been created on CTSoc website to collect and advertise opportunities that have been created – and are currently/always available – for members of TCs.
- The link will be included in communications sent to members, so that they will have a clear indication of open/closed calls and ways to support CTSoc with their expertise.
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TC MEMBERS' SELF-INTRODUCTION
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Open Positions to Serve as an Officer for the IoT TC

- Conferences Liaison: TBA
- Publications: Liaison: TBA
- Education Liaison: TBA
- Standards Liaison: TBA
- Future Direction Liaison: TBA
- Industry Liaison: TBA
- Academia Liaison: TBA
- IEEE Societies/Councils Liaison: TBA
- Technical Sister Societies Liaison: TBA
- Student Competition Program: TBA
Selection Way for Open Positions

- **Step 1:** Interested Open Positions Survey via Google Form.

- **Step 2:** When more than two persons are applying for one of the open positions, all members will vote for candidates.
Discussion

Q&A
Thank you very much for your attendance!