IEEE Consumer Technology Society (CTSoc)

The SEA (Sensors and Actuators) Technical Committee (Kick-off) Regular Meeting

20:30pm, April 25 (Tuesday), 2023 (CET time)
Conference-Call Meeting via Zoom

Chair : Prof. Jose-Maria Flores-Arias, jmflores@uco.es
Vice Chair : Dr. Hiroshi Shimamoto, shimamotohiroshi@gmail.com
Secretary : Prof. Hui-Kai Su, hksu@nfu.edu.tw

2023/04/25

The 1st 2023 meeting of SEA TC Members

▶ Subject: The 1st 2023 meeting of SEA TC Members

▶ Time: 06:30 pm - 07:00 pm, April 25, 2023 (GMT)

Join a Zoom meeting
https://us04web.zoom.us/j/72919701933?pwd=a7x6jct20b344Bg3Oez9LCvpmgfo6o.1

Conference ID: 729 1970 1933
Password: XTrg2w

2023/04/25

Meeting time :　20:30pm , April 25 (Tuesday), 2023 (CET time)

*For your local time of GMT (06:30pm) time zone, please kindly refer as follows:
https://greenwichmeantime.com/global-time/

*The on-line meeting would like to be finished within one hour or one and half hours.

*Please note that the on-line meeting room will be opened before 20 minutes of the start meeting time by using "ZOOM".
****

Please join the Zoom on-line meeting room:

https://us04web.zoom.us/j/72919701933?pwd=a7x6jct20b344Bg3Oez9LCvpmgfo6o.1

Conference ID: 729 1970 1933
Password: XTrg2w

2023/04/25

Agenda of this meeting

The start time of meeting : 20:30pm, April 25 (Tuesday), 2023 (CET time)

Agenda	Responsible	Slot (up to in minutes)
1. Welcome words	Chair	2
2. Assistants introduction: name, affiliation & TC position if it is	All assistants	5
3. TC Officers introduction	Chair, Vice-Chair, Secretary	5
4. Liaisons action items	Liaisons Officers	5
5. SEA activities: from last year and for next year	Chair, Vice-Chair	5
6. Plans to make easy SEA TC meetings: time, use of meeting tools, next TC meeting scheduling…	Chair (Vice-Chair, all)	5
7. discussion, Q&A	All	3

2023/04/25

Welcome words from SEA TC chair

Chair :
Prof. Jose-Maria Flores-Arias

2023/04/25

Mission and Objective

The mission and objective of the IEEE CTSoc Sensors and Actuators Technical Committee (SEA 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 sensors and actuators technologies of consumer devices for architectures, applications, systems, and terminals.

SEA TC is a cluster of engineers, practitioners, technologists, scientists, researchers from Industry and Academia from around the world.

The committee also assumes the proactive duty to recommend suitable candidates from SEA 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).
- EiCs, Associates Editors and Editors to CTSoc Publications (IEEE Transactions on Consumer Electronics, IEEE ACCESS Section for Consumer Technology Society (Open Access), IEEE Consumer Electronics Magazine, News on Consumer Technology-NCT, CTSoc World Newsletter).
- Distinguished Lecturers and tutorials for CTSoc Education.
- Members of CTSoc Standards Committees and Working Groups.

2023/04/25

Assistants introduction:
name, affiliation & TC position if it is (all)

Our special welcome to new TC Members:
- Dr. Wu
- Dr. Sahatiya
- Prof. Herencsar
- Prof. Ren and
- Dr. Madany

2023/04/25

TC Officers introduction

Chair :
Prof. Jose-Maria Flores-Arias

Vice Chair :
Dr. Hiroshi Shimamoto

Secretary:
Prof. Hui-Kai Su

2023/04/25

Other Officers

- Conferences Liaison: **Prof. Chi-Chia Sun**
- Publications Liaison: **Jin Wu**,
    Hong Kong University of Science and Technology (HKUST)
- Education Liaison: TBA
- Standards Liaison: **Prof. Hongliang Ren**
- Future Direction Liaison: TBA
- Industry Liaison: TBA
- Academia Liaison: TBA
- IEEE Societies/Councils Liaison: TBA
- Technical Sister Societies Liaison: TBA
- Student Competition Program: TBA

2023/04/25

Liaisons action items (Liaisons Officers)

Please, Liaison Offs., briefly share your activities with the rest of us and send a short summary to be added to the session's minutes to the TC Secretary

2023/04/25

SEA activities:
from last year and for next year (Chair, Vice-chair)

- **Last year (2021-2022)**
    - 1st 2021 meeting : kick-off
    - 2nd 2021 meeting : Q&A for membership, suggestion for communication tools
    - 1st 2022 meeting : call for Liaison positions and papers
    - 2nd 2022 meeting : call for nomination and election

- **Next year (2023-2024)**
    - 1st 2023 meeting : kick-off
    - 2nd 2023 meeting : expected by mid-year (too close!)
    - 1st 2024 meeting : expected by early 2024
    - 2nd 2024 meeting : expected by mid 2024

2023/04/25

Plans to make easy SEA TC meetings:
time, use of meeting tools, next TC meeting scheduling…
(Chair, Vice-Chair, all)

- **Time**
  - (reference) previous meetings
    - 1st 2021 meeting of SEA TC Members: April 23, 2021, 12:00 pm GMT (1:00 pm CET)
    - 2nd 2021 meeting of SEA TC Members: June 23, 2021, 11:00 pm GMT (12:00 pm CET)
    - 1st 2022 meeting of SEA TC Members: June 20, 2022, 1:00 pm GMT (2:00 pm CET)
    - 2nd 2022 meeting of SEA TC Members: November 17, 9:00 am GMT (10:00 pm CET)
    - **1st 2023 meeting of SE TC Members: April 25, 2023, 19:30 pm GMT (20:30 pm CET) (today)**
  - **-> night-time is preferable?**

Resolution:
Survey from SEA TC members

- **Use of meeting (and other useful) tools**
  - Social media : WeChat, WhatsApp, Line, Linkedin, etc.?
  - Meeting time survey tool : Doodle ?
  - Google Docs : Online Document ?
  - **Mailing list and WebEx account are provided from the TC**
  - Other tools: Zoom, Microsoft Teams, Google Meet, Slack, etc.?

Resolutions:
- Social media: WhatsApp (collect the phone numbers from the members)
- Meeting time survey tool: Doodle

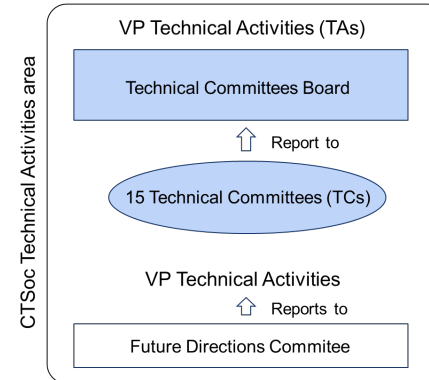- **Next TC meeting scheduling (at least <u>two per year</u>)**
  - **2nd 2023 meeting : October??**
  - 1st 2024 meeting : June?
  - 2nd 2024 meeting : November?
- **Other**

Resolution:
2nd 2023 meeting of SE TC Members: 3rd Oct, 2023

2023/04/25

Discussion, Q&A (All)

2023/04/25

Minutes of CTSoc TC Board Meeting #1 (February 21, 2023)
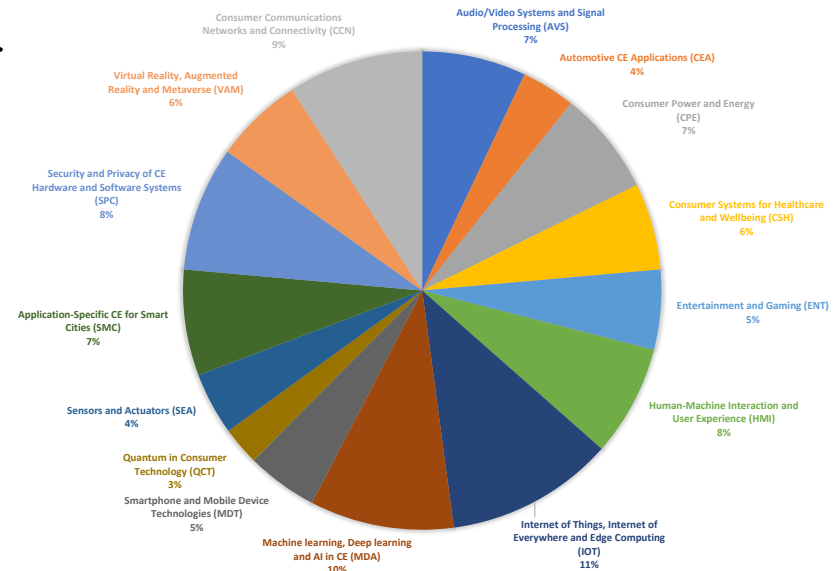
- **Technical Activities (TAs) area** - - - - - - - - - - - - ->
- **TC Officers - first and second term**
  - >50% has changed
- **TA - Transaction of business**
  - Governing documents
  - Technical Committees (TC) Board
- **TC - Officers and members**
  - TC Officers shall be TC and CTSoc members
- **TC - Membership, requirements**
  - > 850 TC members - >
  - Minimum requirements is active & participation
- **TC - Goals and objectives**
  - Support in conferences, publications, standards, education, and history
- **TC - Opportunities**
- **TC - Transaction of business**
  - Regular contacts with members
  - Can use Mailing list and WebEX
- **TC - SWOT Analysis**
  - Weakness: new blood vs expertise
  - Threats: engagement, different speed in TCs

CTSoc Technical Activities area

VP Technical Activities (TAs)

Technical Committees Board

⇧ Report to

15 Technical Committees (TCs)

VP Technical Activities

⇧ Reports to

Future Directions Commitee

Technical Committees Board (TC Board)

VP of Technical Activities (Chair)
Fabrizio Lamberti
CTSoc President
Wen-Chung Kao
VP Conferences
Nobuo Funabiki
VP Publications
Fabrice Labeau
VP Industry & Standards Activities
Raed Abdullah
Officers of the 15 TCs
Chairs, Vice-chairs, Secretaries

Pie chart:
- Consumer Communications Networks and Connectivity (CCN) 9%
- Audio/Video Systems and Signal Processing (AVS) 7%
- Automotive CE Applications (CEA) 4%
- Consumer Power and Energy (CPE) 7%
- Consumer Systems for Healthcare and Wellbeing (CSH) 6%
- Entertainment and Gaming (ENT) 5%
- Human-Machine Interaction and User Experience (HMI) 8%
- Internet of Things, Internet of Everywhere and Edge Computing (IOT) 11%
- Machine learning, Deep learning and AI in CE (MDA) 10%
- Smartphone and Mobile Device Technologies (MDT) 5%
- Quantum in Consumer Technology (QCT) 3%
- Sensors and Actuators (SEA) 4%
- Application-Specific CE for Smart Cities (SMC) 7%
- Security and Privacy of CE Hardware and Software Systems (SPC) 8%
- Virtual Reality, Augmented Reality and Metaverse (VAM) 6%

2023/04/25

Thank you
for your participations!

2023/04/25

Appendix

2023/04/25

Members

Maryam Azimi	Canada	University of British Columbia
Hany A. Bastawrous	Egypt	The British University in Egypt
Mingkai Chen	China	Nanjing University of Posts and Telecommunications
Po-Liang Chen	Taiwan	National University of Kaohsiung
Jeonghun Cho	South Korea	Kyungpook National University
Koustabh Dolui	Belgium	Katholieke Universiteit Leuven
Chih-Peng Fan	Taiwan	National Chung Hsing University
Yujie Fang	China	Beijing Institute of Technology
José Fernandes	Brazil	TPV Technology
Anil Fernando	United Kingdom	University of Surrey
Ratko Grbic	Croatia	University of Osijek
M. Udin Harun Al Rasyid	Indonesia	Electronic Engineering Polytechnic Institute of Surabaya
Yuki Hasegawa	Japan	Saitama University
Norbert Herencsar	Czech Republic	Brno University of Technology
Yusuke Hioka	New Zealand	University of Auckland
Yukihiro Kamiya	Japan	Aichi Prefectural University
Ei Khaing Win	Myanmar	Myanmar Institute of Information Technology
Hyungtae Kim	South Korea	Chung-Ang University
Chi-Yi Lin	Taiwan	Tamkang University
Yasser M. Madany	Egypt	Alexandria University
Htoo Maung Maung	Myanmar	Department of Research and Innovation, Ministry of Education
Dairoku Muramatsu	Japan	Tokyo University of Science
Vukota Pekovic	Serbia	Veriest Venture
Alwin Poulose	South Korea	Kyungpook National University
Hongliang Ren	Hong Kong	The Chinese University of Hong Kong
Parikshit Sahatiya	India	BITS Pilani Hyderabad Campus
Ken Sasaki	Japan	The University of Tokyo
Rafael Sotelo	Uruguay	University of Montevideo
Chi-Chia Sun	Taiwan	National Formosa University
Tien-Wen Sung	China	Fujian University of Technology
Hong-Son Vu	Taiwan	Feng Chia University
Lei Wang	China	Nanjing University of Posts and Telecommunications
Xia Wang	China	Beijing Institute of Technology
Rui-Cian Weng	Taiwan	Instrument Technology Research Center
Jin Wu	China	Hong Kong University of Science and Technology
Atsushi Yamashita	Japan	The University of Tokyo

Information from the web

TC webpages online

https://ctsoc.ieee.org/technical/technical-committees.html

https://ctsoc.ieee.org/technical/technical-committees/sea-tc.html

2023/04/25

Information from the web

Recruitment of new TC members: the Membership Application Form is online on CTSoc webpage under Technical Activities

https://ctsoc.ieee.org/technical/technical-committees/sea-tc.html

Members

The members of the SEA TC are engineers, practitioners, technologists, scientists, Academia from around the world who have the same interest and working toge... research, and innovation of technical areas of sensors and actuators technologi... current members of the SEA TC are listed here.

Membership Application Form

To be a member of the IEEE CTSoc Sensors and Actuators Technical Committee... the Membership Application Form.

Technical Activities

Technical Committees　　＞

Technical Activities Membership Application Form

TC Membership Application Form

To become a member of one of the 14 IEEE CTSoc Technical Committees (TCs), please fill in the form below. Data collected will be used solely for the purpose of processing your application. Application will be reviewed in the next meeting of the chosen TC. Meetings are planned to be held every two months. In case of positive outcomes, data collected will be used by the TC Officers who are responsible for the handling of the TC and of communications with its members.

Technical Activities Form

IEEE Consumer Technology Society Technical Committees

Description

To become a member of one of the 14 IEEE CTSoc Technical Committees (TCs), please fill in the form below. Data collected will be used solely for the purpose of processing your application. Application will be reviewed in the next meeting of the chosen TC. Meetings are planned to be held every two months. In case of positive outcomes, data collected will be used by the TC Officers who are responsible for the handling of the TC and of communications with its members.
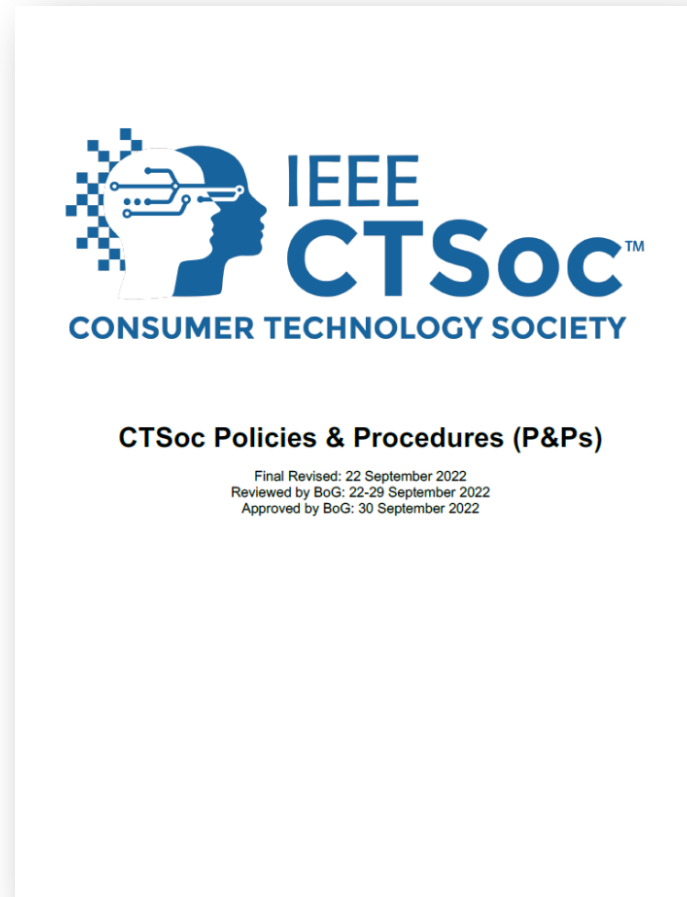
Committee:

Select or enter value ▼

Prefix: *

First Name: *

Middle Name:

2023/04/25

Information from the web

Policies and Procedures (P&Ps)

https://ctsoc.ieee.org/images/CTSoc_PPs_v1.0_30Sep2022.pdf

CTSoc Policies & Procedures (P&Ps)

Final Revised: 22 September 2022
Reviewed by BoG: 22-29 September 2022
Approved by BoG: 30 September 2022

2023/04/25

Information from the web

\# Collect expressions of interest by members to prepare educational content (e.g. webinar) to be shared/streamed live on CTSoc channels (links with Educational activities)

https://ctsoc.ieee.org/education.html

https://www.youtube.com/channel/UCZHnxum7nE36qkiZFUtXufA

2023/04/25

CTSoc Operations Manual / Policies and Procedures (P&Ps)

1.1.2.2. Organizational Structure and Membership

CTSoc's membership or IEEE membership are not required for being a member of aTechnical Committee.

1.1.3.1.2. Organizational Structure and Membership

All Technical Committees report to the Technical Committees Board.

Technical Committees shall have at least a Chair, Vice-Chair, and a Secretary and all shall be elected by the Technical Committee membership. Elections for Technical Committee officers shall be held every two years. Officers cannot serve more than two consecutive terms, and a term has a two-year duration.

1.1.3.1.3. Elected and Appointed Officers

Technical Committees shall have elected officers and may have appointed officers. After the first term in which officers have been invited and/or appointed, all elected officers shall be elected by the Technical Committee members. Appointed officers shall be appointed by the Technical Committee Chair.

All officers shall be Technical Committee members and CTSoc members, and shall serve two-year terms concurrent with the nominal term of the Technical Committee Chair.

2023/04/25

Information from the previous

Benefits to serve as the members in the TC

The committee also assumes the proactive duty to recommend suitable candidates from SEA 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).

- **EiCs, Associates Editors and Editors to CTSoc Publications** (IEEE Transactions on Consumer Electronics, IEEE ACCESS Section for Consumer Technology Society (Open Access), IEEE Consumer Electronics Magazine, News on Consumer Technology-NCT, CTSoc World Newsletter).

- **Distinguished Lecturers and tutorials** for CTSoc Education.

- **Members** of CTSoc Standards Committees and Working Groups.

2023/04/25