

2023 2nd Call Meeting of IOT TC Members

Nov. 29, 2023 8:00 P.M.–8:45 P.M. (GMT+8)

Host: Dr. Thinagaran Perumal (Vice Chair), Universiti Putra Malaysia, Malaysia

Participants:

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

Dr. Aaron Raymond See (**Secretary**), Southern Taiwan University of Science and Technology, Taiwan

Dr. Toshitaka Tsuda, Waseda University, Japan

Dr. Ming-Che Chen (**Conferences Liaison**), Southern Taiwan University of Science and Technology, Taiwan

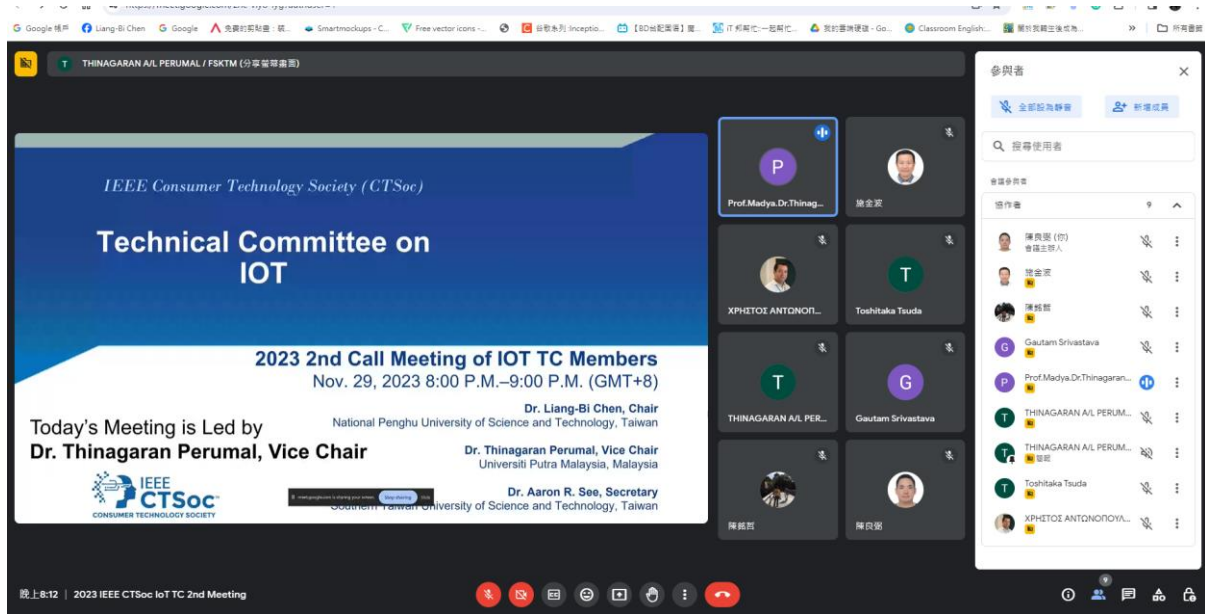
Dr. Christos Panagiotis Antonopoulos, University of Peloponnese, Greece

Dr. Gautam Mohan Srivastava, Brandon University, Canada

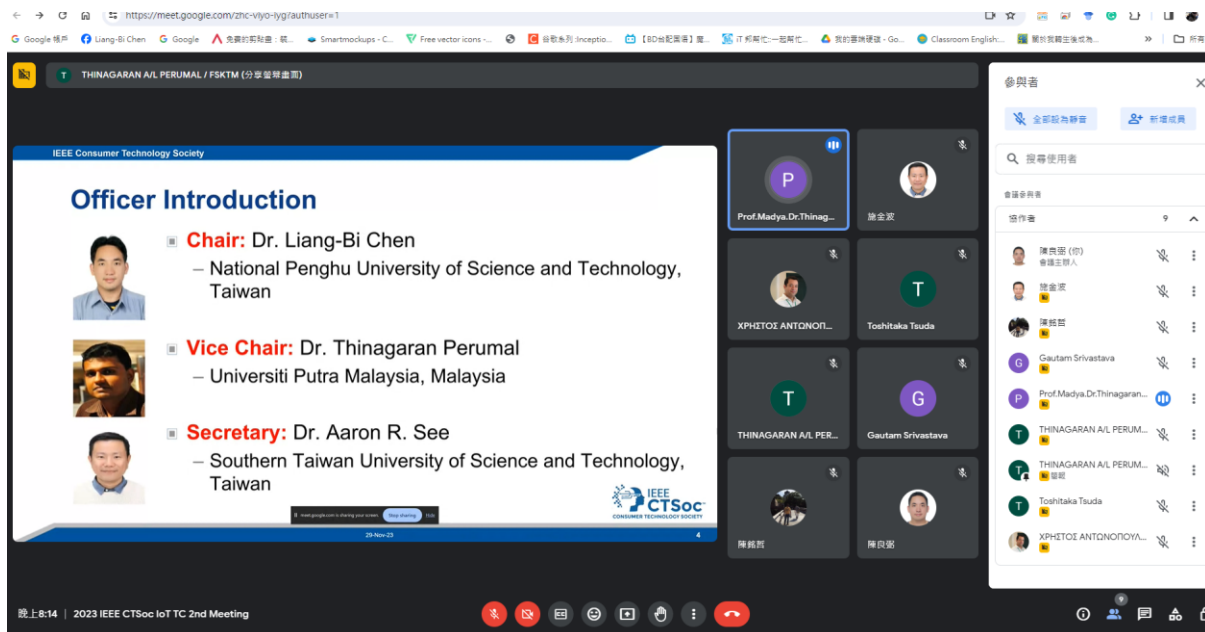
Meeting Minutes

Agenda:

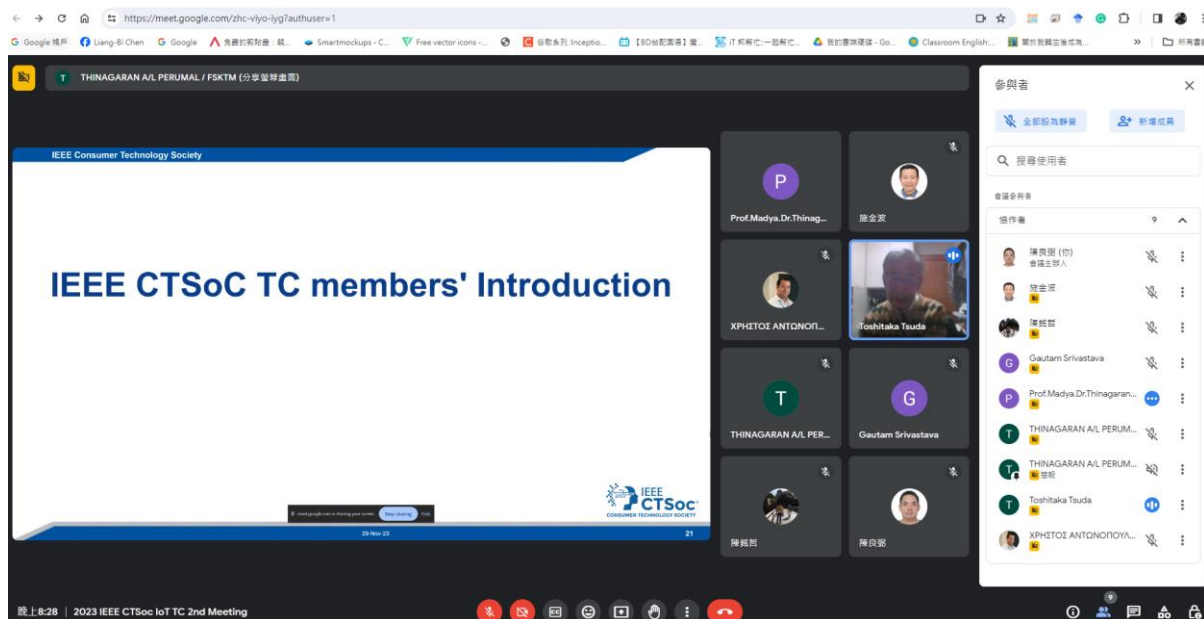
- **Officer Introduction**
- **Opening Remarks**
- **IEEE CTSoc TC members' Introduction**
- **Call for Speakers of IoT TC Technical Talks**
 - **Dr. Christos Panagiotis Antonopoulos introduces his talk topic to the group**
- **Discuss Open Positions to Serve as an Officer for the IoT TC**
 - **Volunteer for IEEE Societies / Councils Liaison: Dr. Gautam Srivastava**
 - **Student Competition Program: Open (will send email)**
- **Q&A**
 - 🚩 **We need more members to join our meetings.**
 - 🚩 **Dr. Gautam Srivastava has suggested that we should organize an IoT conference linked with our technical committee. This conference will be an annual flagship event that will provide an opportunity for our members to meet in person.**
 - 🚩 **We are hoping for our technical committee to be more active and have a more structured approach.**
- **Group Photo**



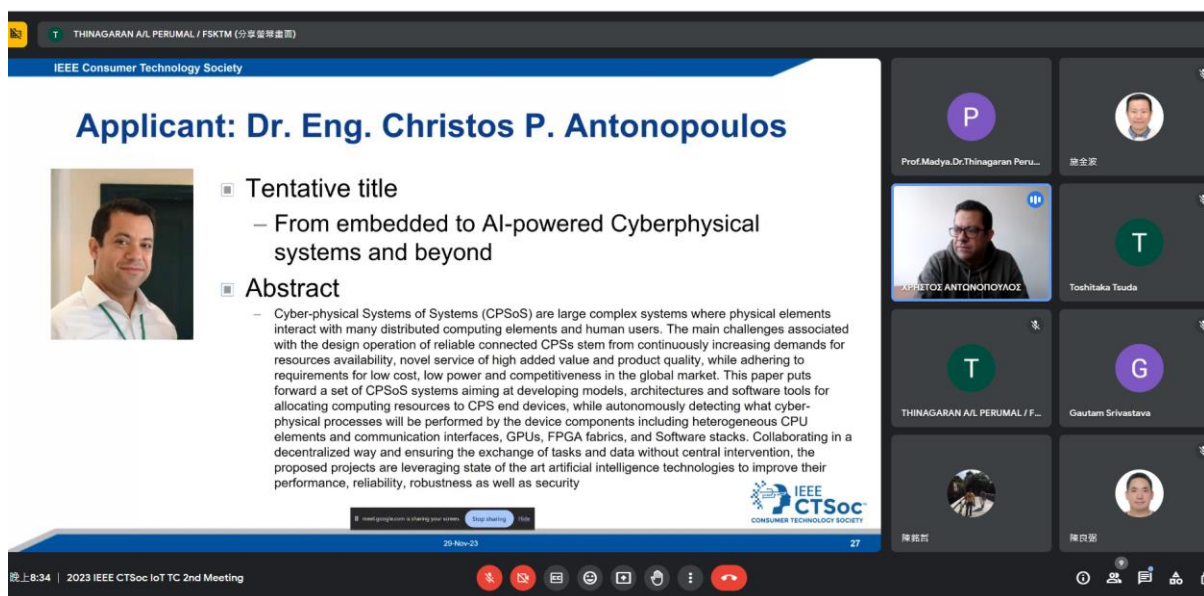
Opening



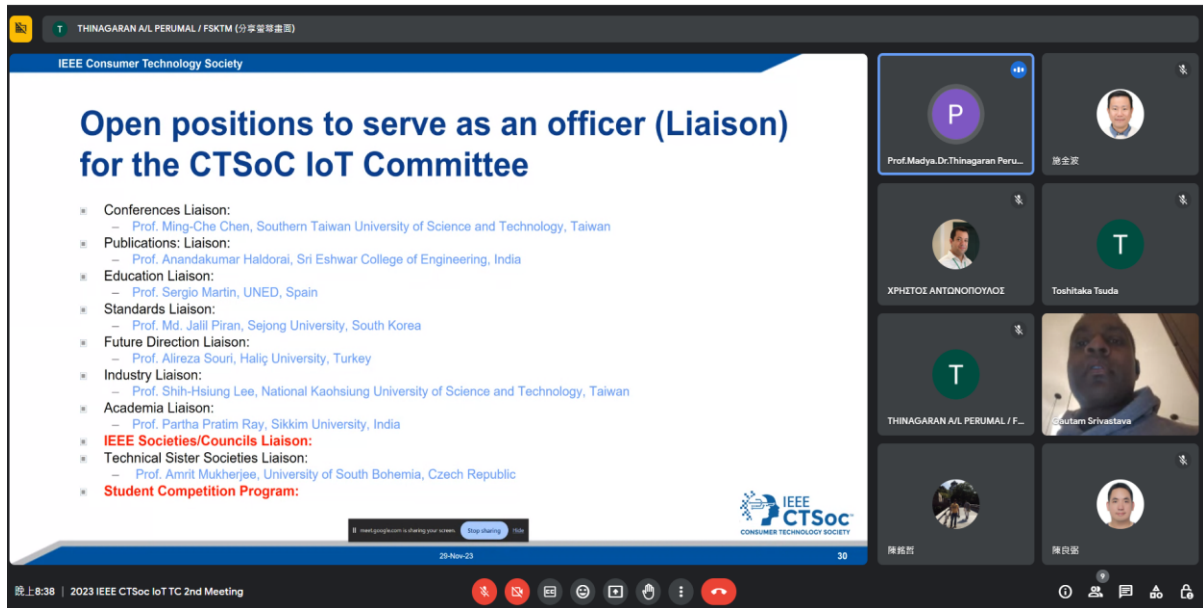
Officer Introduction



IEEE CTSoc TC Members' Introduction



Dr. Christos Panagiotis Antonopoulos introduces his talk topic to the group



THINAGARAN A/L PERUMAL / FSKTM (分享螢幕画面)

IEEE Consumer Technology Society

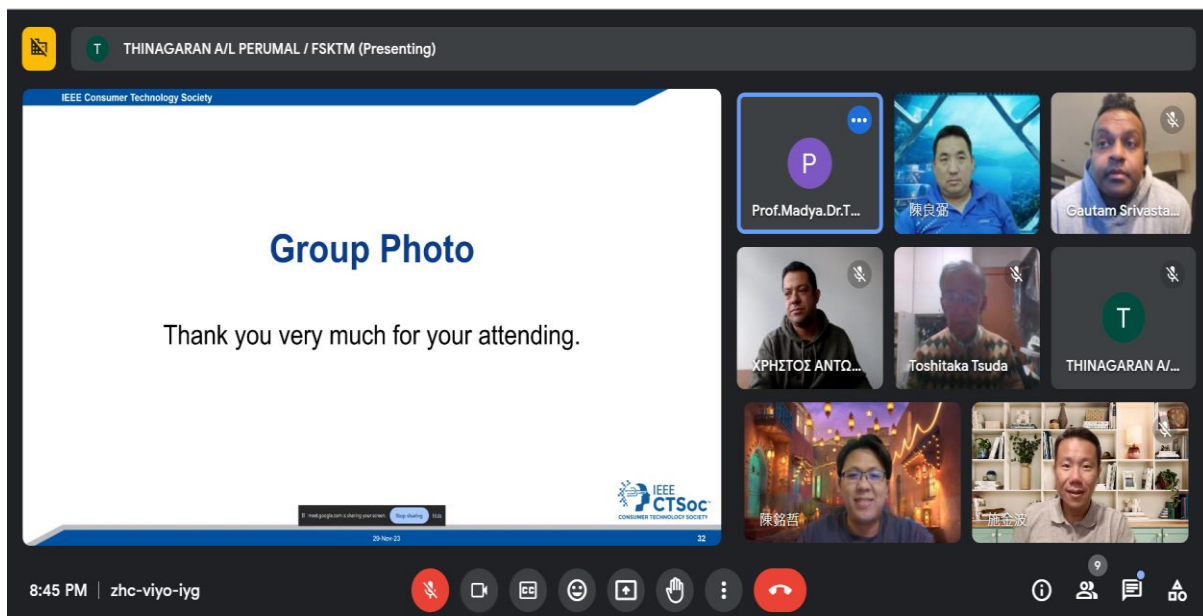
Open positions to serve as an officer (Liaison) for the CTSoc IoT Committee

- Conferences Liaison:**
 - Prof. Ming-Che Chen, Southern Taiwan University of Science and Technology, Taiwan
- Publications Liaison:**
 - Prof. Anandakumar Haldorai, Sri Eshwar College of Engineering, India
- Education Liaison:**
 - Prof. Sergio Martin, UNED, Spain
- Standards Liaison:**
 - Prof. Md. Jalil Piran, Sejong University, South Korea
- Future Direction Liaison:**
 - Prof. Alireza Souri, Haliç University, Turkey
- Industry Liaison:**
 - Prof. Shih-Hsiung Lee, National Kaohsiung University of Science and Technology, Taiwan
- Academia Liaison:**
 - Prof. Partha Pratim Ray, Sikkim University, India
- IEEE Societies/Councils Liaison:**
 - Prof. Amrit Mukherjee, University of South Bohemia, Czech Republic
- Student Competition Program:**

25-Nov-23 30

晚上 8:38 | 2023 IEEE CTSoc IoT TC 2nd Meeting

Discuss Open Positions to Serve as an Officer for the IoT TC



THINAGARAN A/L PERUMAL / FSKTM (Presenting)

IEEE Consumer Technology Society

Group Photo

Thank you very much for your attending.

25-Nov-23 32

8:45 PM | zhc-viyo-iyg

Group Photo

IEEE Consumer Technology Society (CTSoc)

Technical Committee on IOT

2023 2nd Call Meeting of IOT TC Members

Nov. 29, 2023 8:00 P.M.–9:00 P.M. (GMT+8)

Dr. Liang-Bi Chen, Chair

National Penghu University of Science and Technology, Taiwan

Dr. Thinagaran Perumal, Vice Chair

Universiti Putra Malaysia, Malaysia

Dr. Aaron R. See, Secretary

Southern Taiwan University of Science and Technology, Taiwan

Today's Meeting is Led by
Dr. Thinagaran Perumal, Vice Chair



Agenda

- Officer Introduction
- Opening Remarks
- Technical Committees (TCs) Introduction
- TC Members' Self-Introduction
- Call for Speakers of IoT TC Technical Talks
- Discuss Open Positions to Serve as an Officer for the IoT TC
- Q&A
- Group Photo

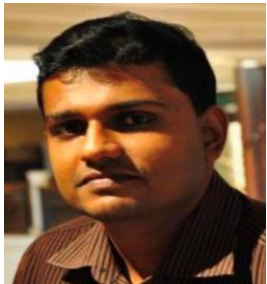
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Officer Introduction



- **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 R. See
 - Southern Taiwan University of Science and Technology, Taiwan

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- Q&AGroup Photo

OPENING REMARKS



Chair: Dr. Liang-Bi Chen

OPENING REMARKS



Vice Chair: Dr. Thinagaran Perumal

OPENING REMARKS



Secretary: Dr. Aaron R. See

Agenda

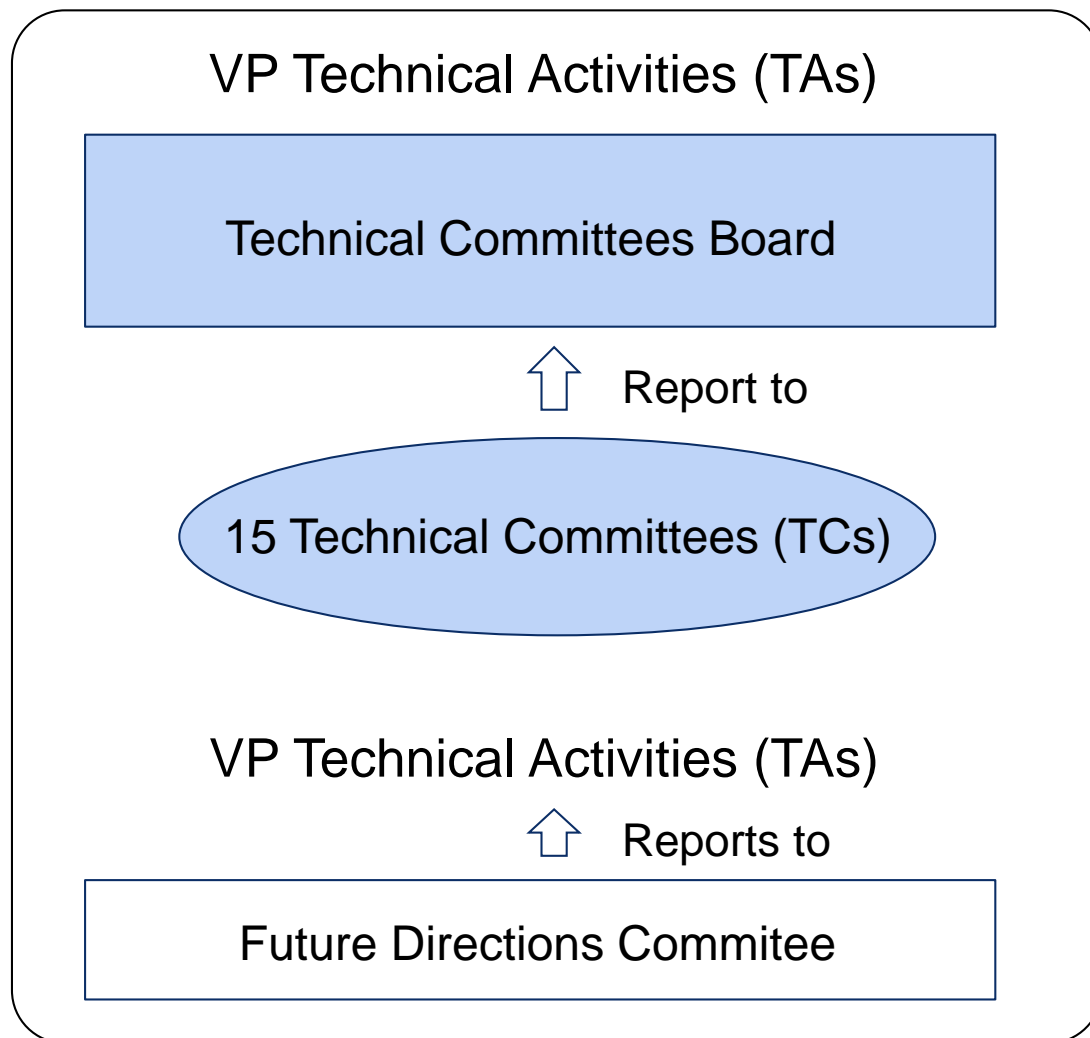
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Technical Activities (TAs) area

CTSoc Technical Activities area



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

Technical Activities – Transaction of business*

- Governing documents
 - CTSoc Constitution, Bylaws and Policies & Procedures (P&Ps)
- Technical Committees (TC) Board
 - Is the **supervisory** group for the TCs
 - Supports the organization, quality control, and management of CTSoc TAs
 - **Meets every two months** to discuss the status of TCs activities

TC Board Meeting #1, 2023
scheduled on
February 21, 2023 8am EST

* For a complete description refer to Constitution, Bylaws and Policies & Procedures (Section 7.4, pp. 21–26)
<https://ctsoc.ieee.org/about/governing-documents.html>



CTSoc Policies & Procedures (P&Ps)

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

Consumer Technology Society Policies & Procedures

ogy Section
er Technology Section publishes open-access articles that focus on an IEEE

ogy:
logy (NCT) is an online monthly publication that publishes exciting, timely, and
ng a wide range of topics related to the consumer technology industry and to
Soc and public on issues related to the impacts of consumer technology and
y, its role in providing economic and societal benefits within the world, and policy

ster
Society produces an electronic newsletter which is sent to both Society and non-
activities and publications of the Society.

Society maintains a resource center. Thousands of peer-reviewed technical
demand and accessible from anywhere. Developed by experts in industry and
support continuous learning as well as virtual instruction and professional
and challenging times.

lar the direction of the VP Publications and his/her team of editors. In addition
also contributes to other IEEE publications.

of Interest are promoted through the Future Directions Committee (FDC) and the
TC reports to the VP of Technical Activities. All TCs report to the VP of Technical
ities Board.

ee (FDC)
rise:
and management of the technical content of CTSoc Conferences to guarantee
level of technical content quality.
g CTSoc involvement in external initiatives i.e., those originated from IEEE-level
(e.g., IEEE TAB Future Directions Committee, IEEE New Initiatives Committee,
ites, Multi-Society Technical Groups, and all IEEE Organizational Units).
olvement is timely, relevant, within its Field of Interest, cost effective, and
ion of CTSoc and IEEE.

g when to terminate existing initiatives, revise existing initiative memorandum
and join or launch new initiatives.

in compliance with CTSoc Bylaws and Constitution.

shall be composed of at least four and to a maximum of five members in addition
bers are appointed by the FDC Chair and shall be CTSoc members. The VP of
o member of the FDC.

ie President. He/she represents CTSoc in external relationships noted under the
Chair presents recommendations of the FDC to the BoG.

from industry or other societies to its meetings.

chnical Activities.

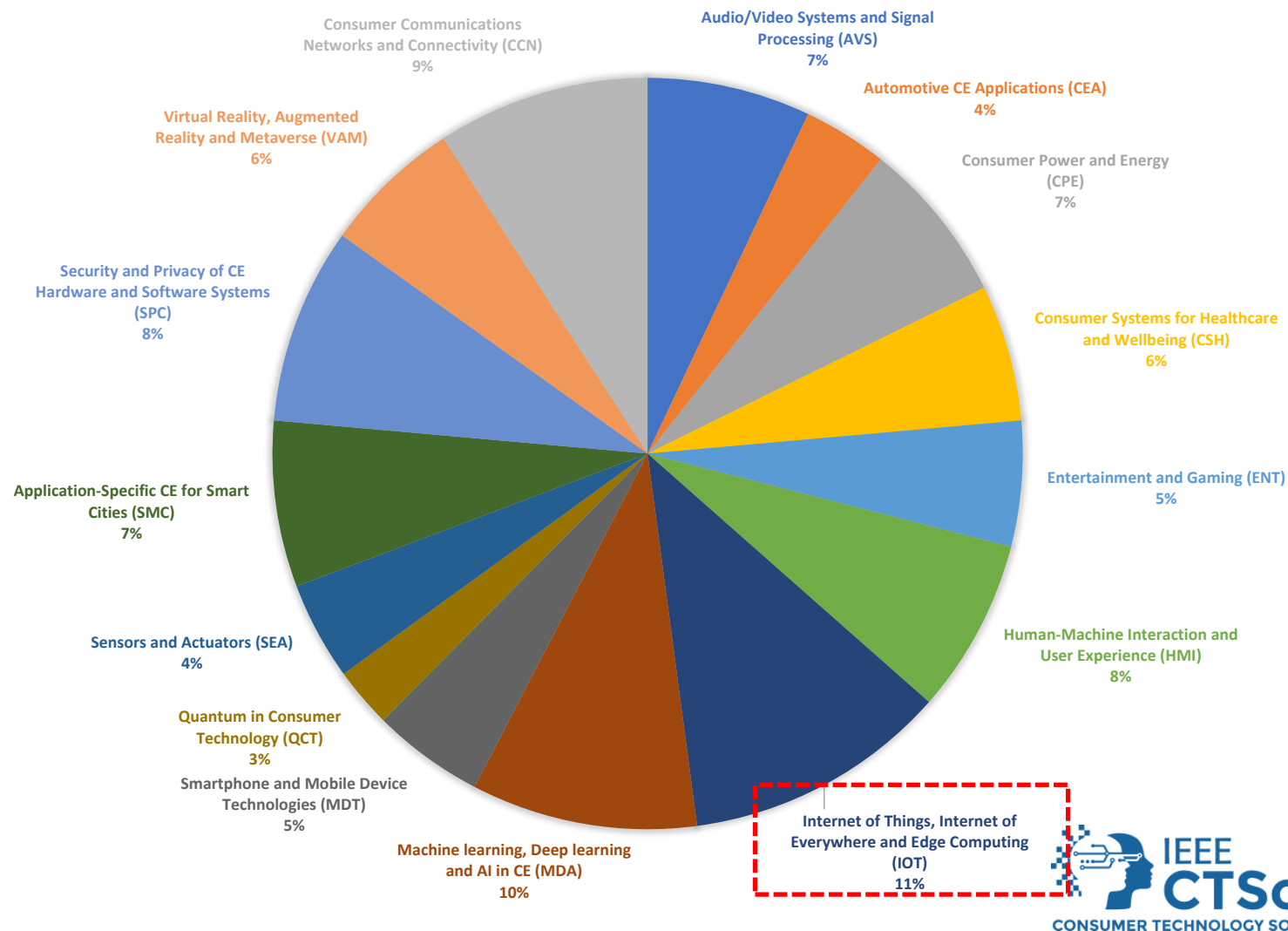
Page 21 of 51 Approved [Sep 30, 2022]

Technical Committees – Officers and Liaisons

- All the **TC Officers (Chair, Vice-Chair, Secretary)** shall be TC members and IEEE CTsoc members.
- The other officer (liaison) is not required to be an IEEE CTsoc member.

Technical Committees – Membership

- More than 850 TC members
 - Initially invited based on contributions provided to CTSoc conferences (as Chairs, authors, reviewers), 600~ accepted
 - Then, applications received via TC Membership Application Form, reviewed by the Officers (+ 250~)
 - Advertising via, e.g.,
 - CTSoc channels (members)
 - Invitations sent by EiC of IEEE TCE and CEMag to authors of recent papers
 - Networks of current TC Officers and Members



Technical Committees – Membership requirements

- **IEEE/CTSoc membership is not required for being a TC member**
 - Starting from January 1, 2023, however, to have the right to vote in the TC elections, to candidate for Officer positions, and to be nominated for (and then serve in) technical positions, a TC member shall also be a CTSoc member
- The **minimum requirements** for membership in a TC is **active, timely participation in the TC** by, e.g., assisting in the conduct of its business, participating in meetings, etc.
 - **Additional TC membership requirements may be set by the TC Board** and posted on the CTSoc website (these requirements shall be fair, objective, attainable, measurable, and easy to verify, and shall uphold IEEE Code of Conduct, including Ethics and Inclusivity practices); examples of objective and measurable requirements are minimum attendance to 75% of pre-scheduled meetings, completing assigned action items by the agreed deadlines, etc.
- **TC Chairs will report periodically in the meetings of the TC Board** on the status of the membership and inform about unresponsive or inactive members and re-engagement efforts made to make them maintain their qualification for TC membership

Technical Committees – Goals and objectives

- Technical Committees are established to
 - **Support CTSoc's Technical Activities** in the areas of **conferences, publications, standards, 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)

Technical Committees – Goals and objectives

- For instance, regarding conferences, Technical Committees may
 - **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
 - Collect nominations from amongst TC members and recommend individuals for **technical positions in CTSoc Conferences** (TPC Chairs, Workshop Chair, Tutorial Chairs, Publication Chair, and TPC members)
 - Provide conference Track and Session Chairs
 - Collect proposals for the hosting of conferences as well as for academic and industry conference speakers

Members of TCs
support CTSoc

Technical Committees – Opportunities

- Some examples
 - Technical positions in conferences (ICCE Las Vegas, ICCE Berlin, GEM)
 - Associate Editor positions
 - Special Sections in journals
 - Workshops in conferences
 - IEEE FD Digital Privacy
 - Collaborations with other Societies (e.g., SPS & AES)
 - Webinars & Tech Talks
 - SIG (e.g., Metaverse)
 - ...

The screenshot shows the IEEE Consumer Technology Society (CTSoc) website. The top navigation bar includes links for IEEE.org, IEEE Xplore Digital Library, IEEE Standards, IEEE Spectrum, and More Sites, along with Join IEEE and Sign In options. The main header features the CTSoc logo and a search bar. A secondary navigation bar lists: About, Membership, Awards, Conferences, Education Activities, Technical Activities (highlighted), Indust. and Stands., and Publications. The breadcrumb trail reads: Home / Technical Activities / TC Outcomes and Opportunities. A sidebar menu on the left lists: Technical Activities, Technical Committees (with a right-pointing arrow), Technical Activities Membership Application Form, and TC Outcomes and Opportunities. The main content area is titled 'Outcomes and opportunities' and contains the following text:

The 15 **Technical Committees (TCs)** support IEEE Consumer Technology Society (CTSoc)'s technical activities in the areas of conferences, publications, standards, education, history, and cross cutting initiatives in collaboration with other IEEE Society/Council Technical Committees and IEEE organizational units thanks to the great dedication of the officers and members of CTSoc TCs.

This page reports the major outcomes of these efforts, by also listing open opportunities for those willing to contribute.

For more information about the TCs and how to join them please visit the [TC Membership Application Form \(MAF\)](#) page.

TCs contribution to CTSoc Conferences

Periodically, TCs' officers are forwarding to their members calls for participation in the technical activities of CTSoc conferences. A list of open calls, if any, is reported below. Moreover, for closed calls, ways in which the TCs have been involved and outcomes achieved are also reported (chronologically, starting with the more recent). For

CTSoc creates opportunities
for TC members

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IEEE CTSoc TC members' Introduction

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Call for Speakers of IoT TC Technical Talks

- Building on the success of the series of talks organized in individual Technical Committees (TCs) over the last years, a new series of webinars has been launched: the Technical Talks of CTSoc.
- Every month, two of the 15 TCs will organize a 1-hour webinar, with the participation of two speakers representing their membership. Schedules is as follows (dates will be finalized month by month).
- <https://ctsoc.ieee.org/technical/technical-talks.html>

Call for Speakers of IoT TC Technical Talks

- <https://ctsoc.ieee.org/technical/technical-talks.html>

Date		
June, 26 2023	SMC	CEA
July, 28 2023	SEA	SPC
October 30 2023	ENT	VAM
<i>November 27, 2023</i>	<i>CSH</i>	<i>AVS</i>
December 2023	CCN	QCT
January 2023	IOT	CPE
February 2024	HMI	MEA
March 2024	MDT	-

Applicant: Dr. Eng. Christos P. Antonopoulos



- Ass. Prof. Christos P. Antonopoulos received his Diploma and PhD in Electrical Engineering and Computer Technology from ECE Department of Electrical Engineering and Computer Technology, University of Patras Greece in 2002 and 2008 respectively. From 2019 he holds the position of Assistant Professor at the ECE Department of University of the Peloponnese, Greece. From 2002, he has been involved in more than 17 European projects (FP5,6,7 and Horizon 2020) and more than 6 Greek National research projects holding key positions both technical as well as managerial while he has participated in preparation of a high number of research project proposals. He has published high number (>100) of research papers and 13 book chapters in international journals and conferences which have received over more than 950 citations while he has served as editor to two Springer books. From 2005 he has worked and collaborated as Senior Researcher for several research institutions (Industrial System Institute (ISI) Patras, ECE Dept University of Patras, Technological and Educational Institute of Western Greece, Hellenic Open University) and industrial companies (INTRACOM-Telecom, NOESIS). Over the years, he has reviewed a high number of submitted paper for high quality IEEE, ACM, Elsevier, Springer and Hindawi, MDPI Journals and conferences and he has served as organizer, PC/TC member and session chair in several prestigious international conferences. Additionally, from 2003 he has worked continuously as adjunct assistant professor for various departments at Greek Universities and Technological Institutes. His main research interests include: Wireless Networks, Network Communication Protocols, Network Simulation, Performance Evaluation, Embedded Software, Sensor Networks, Wireless Broadband Access Networks, Embedded System Architecture and Programming, Cross-Layer protocols, Wireless Networks power optimization, Internet of things, Cyberphysical systems.

Applicant: Dr. Eng. Christos P. Antonopoulos



■ Tentative title

- From embedded to AI-powered Cyberphysical systems and beyond

■ Abstract

- Cyber-physical Systems of Systems (CPSoS) are large complex systems where physical elements interact with many distributed computing elements and human users. The main challenges associated with the design operation of reliable connected CPSs stem from continuously increasing demands for resources availability, novel service of high added value and product quality, while adhering to requirements for low cost, low power and competitiveness in the global market. This paper puts forward a set of CPSoS systems aiming at developing models, architectures and software tools for allocating computing resources to CPS end devices, while autonomously detecting what cyber-physical processes will be performed by the device components including heterogeneous CPU elements and communication interfaces, GPUs, FPGA fabrics, and Software stacks. Collaborating in a decentralized way and ensuring the exchange of tasks and data without central intervention, the proposed projects are leveraging state of the art artificial intelligence technologies to improve their performance, reliability, robustness as well as security

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Open positions to serve as an officer (Liaison) for the CTSoc IoT Committee

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- Publications: Liaison:
 - Prof. Anandakumar Haldorai, Sri Eshwar College of Engineering, India
- Education Liaison:
 - Prof. Sergio Martin, UNED, Spain
- Standards Liaison:
 - Prof. Md. Jalil Piran, Sejong University, South Korea
- Future Direction Liaison:
 - Prof. Alireza Souri, Haliç University, Turkey
- Industry Liaison:
 - Prof. Shih-Hsiung Lee, National Kaohsiung University of Science and Technology, Taiwan
- Academia Liaison:
 - Prof. Partha Pratim Ray, Sikkim University, India
- **IEEE Societies/Councils Liaison:**
- Technical Sister Societies Liaison:
 - Prof. Amrit Mukherjee, University of South Bohemia, Czech Republic
- **Student Competition Program:**

Discussion Q&A

Group Photo

Thank you very much for your attending.