



IES Technical Committees and IES Conference Organization

Roberto Oboe

Washington, October 22nd 2018



What is a Technical Committee within IES and what is its role?

► From the bylaws:

- A Technical Committee (formed by a minimum of 15 current IES members) covering activities within a well-defined specialist field, may be provisionally established by the IES President on the recommendation of the Technical Activities Committee, with the consent of the AdCom
- ...
- Each Technical Committee shall promote activities in its field and shall provide the expert knowledge and assistance to:
- In cooperation with Conferences Committees, organize and operate sessions at meetings of IES at all levels and at meetings of other organizations with which the IES is desirous of cooperating, in accordance with the rules in effect at such meetings.

Current TC list

#	Technical Committee on	Chair
1	Building Automation, Control, and Management	Jan Haase
2	Cloud and Wireless Systems for Industrial Applications	Gerhard Petrus Hancke
3	Control, Robotics & Mechatronics	Yasuharu Kunii
4	Data Driven Control and Monitoring	Ligang Wu
5	Education in Engineering and Industrial Technologies	Oscar Lucia
6	Electrical Machines	Franck Betin
7	Electronic Systems on Chip	Mickael Hilairet
8	Energy Storage	Chengbin Ma
9	Factory Automation	Johan Akerberg
10	Human Factors	Jinhua She
11	Industrial Agents	Stamatis Karnouskos
12	Industrial Cyber-Physical Systems	Armando W. Colombo
13	Industrial Informatics	Valeriy Vyatkin
14	MEMS & Nanotechnologies	Carmen Aracil
15	Motion Control	Michael Ruderman
16	Network-based Control Systems and Applications	Wangli He
17	Power Electronics	Haitham Abu-Rub
18	Renewable Energy	Concettina Buccella
19	Resilience and Security for Industrial Applications	Mo Yuen Chow
20	Sensors and Actuators	Sehoon Oh
21	Smart Grid	Pierluigi Siano
22	Standards	Victor Huang
23	Transportation Electrification	Fei Gao



TC Clusters

- ▶ From new Bylaws (art.2)
 - 2.1.3 - IES Technical Activities Committees shall group the Technical Committees in Clusters based on technical field. ...
- ▶ The four clusters, approved by the AdCom in Edimburgh on June 2017, are:

Energy: 569 members

Electrical Machines
Energy Storage
Power Electronics
Renewable Energy
Smart Grid
Transportation Electrification

Sensors and Control: 341 members

Control, Robotics & Mechatronics
Data Driven Control and Monitoring
MEMS & Nanotechnologies
Motion Control
Network-based Control Systems and Applications
Sensors and Actuators

Information and Communication Technologies: 536 members

Building Automation, Control, and Management
Cloud and Wireless Systems for Industrial Applications
Factory Automation
Industrial Agents
Industrial Cyber-Physical Systems
Industrial Informatics

Emerging and cross-disciplinary: 172 members

Education in Engineering and Industrial Technologies
Electronic Systems on Chip
Human Factors
Resilience and Security for Industrial Applications
Standards



Technical Committees' contributions to conferences



Sponsored conferences vs. technical sponsored conferences

- ▶ Sponsored Conferences/Workshops
 - Major events, with broad coverage of Industrial Electronics topics
 - IECON, ISIE, ICIT
 - Focused Conferences, on selected IE Topics
 - INDIN, ETFA, ICM, WFCS, ICPS, POWERENG/CPE, ...
- ▶ Co-sponsored Conferences (with other IEEE OUs)
 - IROS, AIM, SII, IEMDC, ...
- ▶ Technically Co-Sponsored Conferences

* This content has been prepared by Luis Gomes, former VPTA



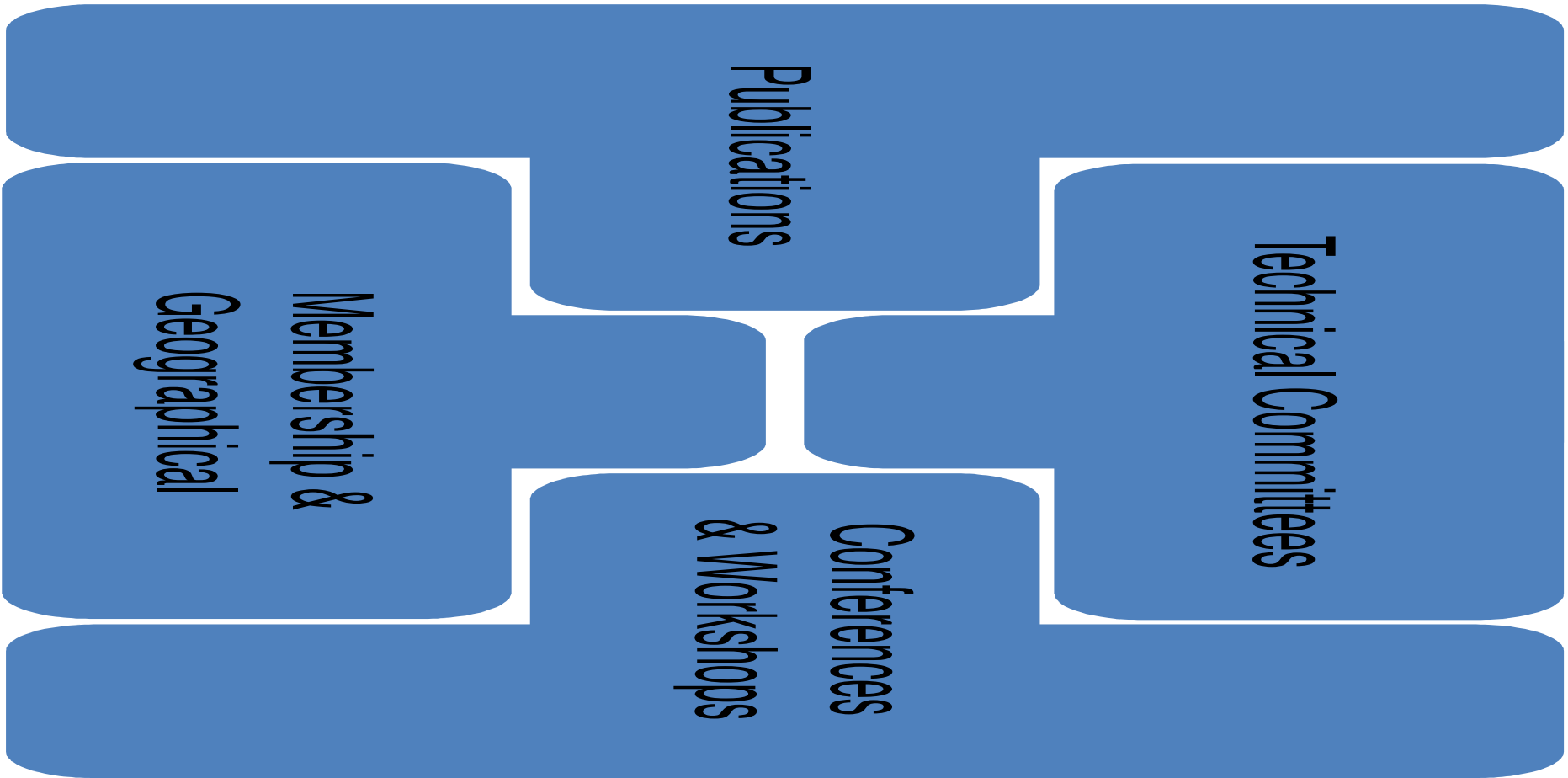
Usual contributions of TCs to conference organization

- ▶ Supporting technical program in several ways:
 - Recommending Tracks and Track Chairs
 - Managing the review process
 - Providing (timely) reviews to the submitted papers
 - Promoting tutorials and recommending invited speakers
- ▶ Launching Special Sessions in their FOI
 - A TC proposes a SS and commits to paper collection and review
- ▶ Endorsing Special Sessions in their FOI
 - A SS is received by a conference organiser and sent to the TC for evaluation/endorsement
- ▶ Managing Special Sessions in their FOI
 - Multiple SSs in the same area may get in: help in combining/merging

* This content has been prepared by Luis Gomes, former VPTA



Liaisons of TCs with Conferences&Workshops, Publications, Membership&Geographical Units

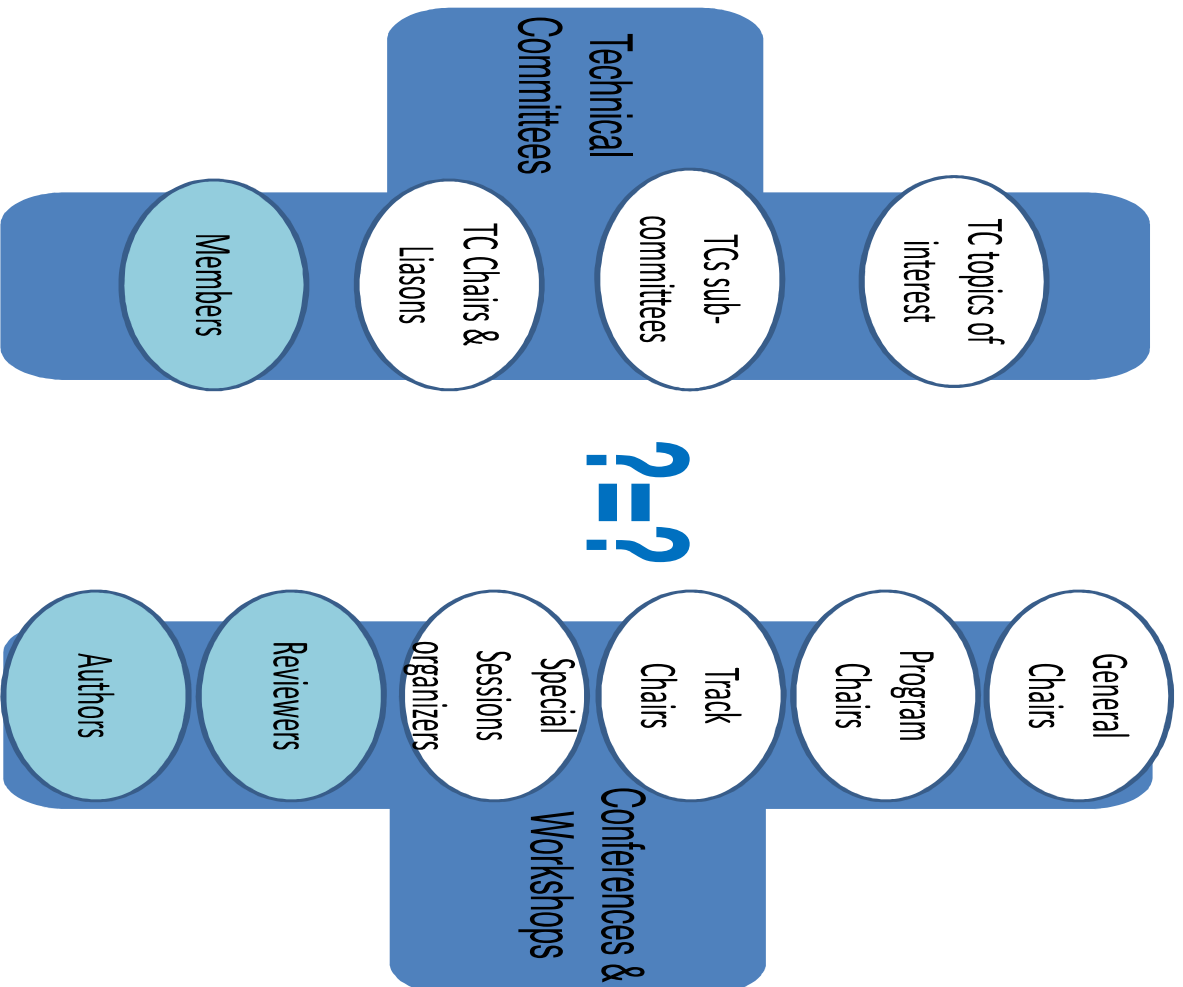


* This content has been prepared by Luis Gomes, former VPTA



How TC roles and structure match/impact the conference Organization needs?

How TC roles and structure match/impact the conference Organization needs?



* This content has been prepared by Luis Gomes, former VPTA

Additional info?

- ▶ Contacting VP-Technical Activities
 - Roberto.oboe@unipd.it
- ▶ Contacting TC Chairs and/or TC Liaisons for Conferences/Workshops
- ▶ Information on the TCs are available at IES website
 - <http://www.ieee-ies.org/technical-committees>