



# IES Technical Committees and IES Conference Organization

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# 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	e-mail
Building Automation, Control, and Management	Jan Haase	janhaase@ieee.org
Cloud and Wireless Systems for Industrial Applications	Mikael Gidlund	<a href="mailto:mikael.gidlund@miun.se">mikael.gidlund@miun.se</a>
Control, Robotics & Mechatronics	Yasuharu Kunii	kunii@elect.chuo-u.ac.jp
Data Driven Control and Monitoring	Adel Haghani	<a href="mailto:adel.haghani@uni-rostock.de">adel.haghani@uni-rostock.de</a>
Education in Engineering and Industrial Technologies	Oscar Lucia	olucia@unizar.es
Electrical Machines	Radu Bojoi	<a href="mailto:radu.bojoi@polito.it">radu.bojoi@polito.it</a>
Electronic Systems on Chip	Mickael Hilaret	mickael.hilaret@univ-fcomte.fr
Energy Storage	Chengbin Ma	chbma@sjtu.edu.cn
Factory Automation	Marina indri	<a href="mailto:marina.indri@polito.it">marina.indri@polito.it</a>
Human Factors	Jinhua She	she@stf.teu.ac.jp
Industrial Agents	Stamatis Karnouskos	karnouskos@ieee.org
Industrial Cyber-Physical Systems	<a href="#">Yang Shi</a>	<a href="mailto:yshi@uvic.ca">yshi@uvic.ca</a>
Industrial Informatics	Valeriy Vyatkin	valeriy.vyatkin@ltu.se
MEMS & Nanotechnologies	Zichao Tan	<a href="mailto:zhichao.tan@hotmail.com">zhichao.tan@hotmail.com</a>
Motion Control	Michael Ruderman	michael.ruderman@uia.no
Network-based Control Systems and Applications	Wangli He	wanglihe@ecust.edu.cn
Power Electronics	Sertac Bayhan	<a href="mailto:sertac.bayhan@qatar.tamu.edu">sertac.bayhan@qatar.tamu.edu</a>
Renewable Energy	Giampaolo Buticchi	<a href="mailto:Giampaolo.Buticchi@nottingham.edu">Giampaolo.Buticchi@nottingham.edu</a>
Resilience and Security for Industrial Applications	Mo Yuen Chow	chow@ncsu.edu
Sensors and Actuators	Sehoon Oh	sehoon@dgist.ac.kr
Smart Grid	Thomas Strasser	<a href="mailto:thomas.strasser@ait.ac.at">thomas.strasser@ait.ac.at</a>
Standards	Victor Huang	v.huang@ieee.org
Transportation Electrification	Fei Gao	fei.gao@utbm.fr

# 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

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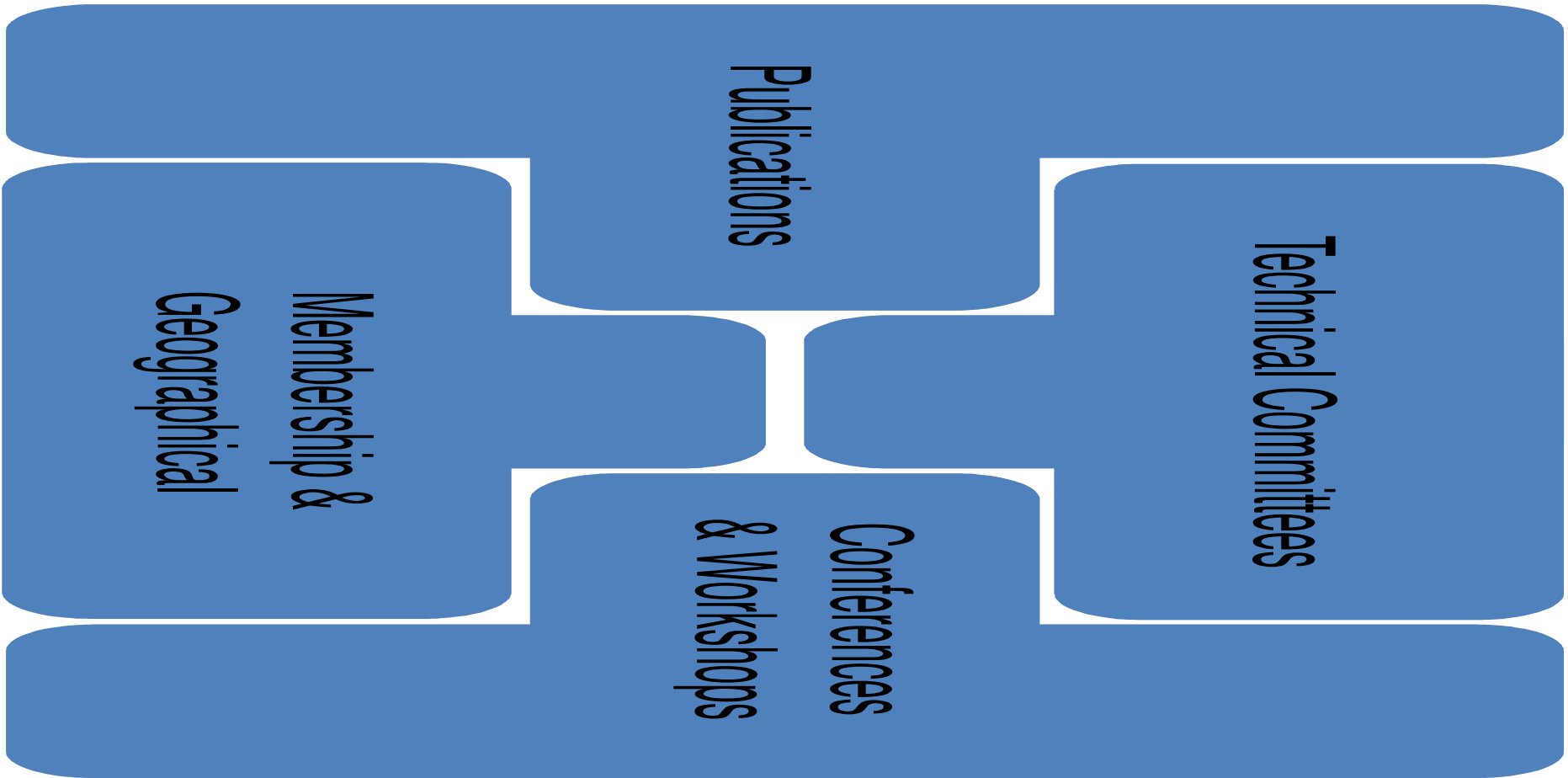


# Usual contributions of TCs to conference organization

- ▶ When planning a conference, list the TC that may have interest in the topics the conference deals with
- ▶ Include such list in the bid, if possible, and try to contact TC chairs at the earliest stage
- ▶ If the conference is approved, VP Conferences/Workshops/TA can help the conference organisers to get in touch with TC chairs, if not done before
  - A database of conferences and relative TC of interest is planned in future
- ▶ TCs may help in several ways, providing both experts, for advices and support, as well as new volunteers



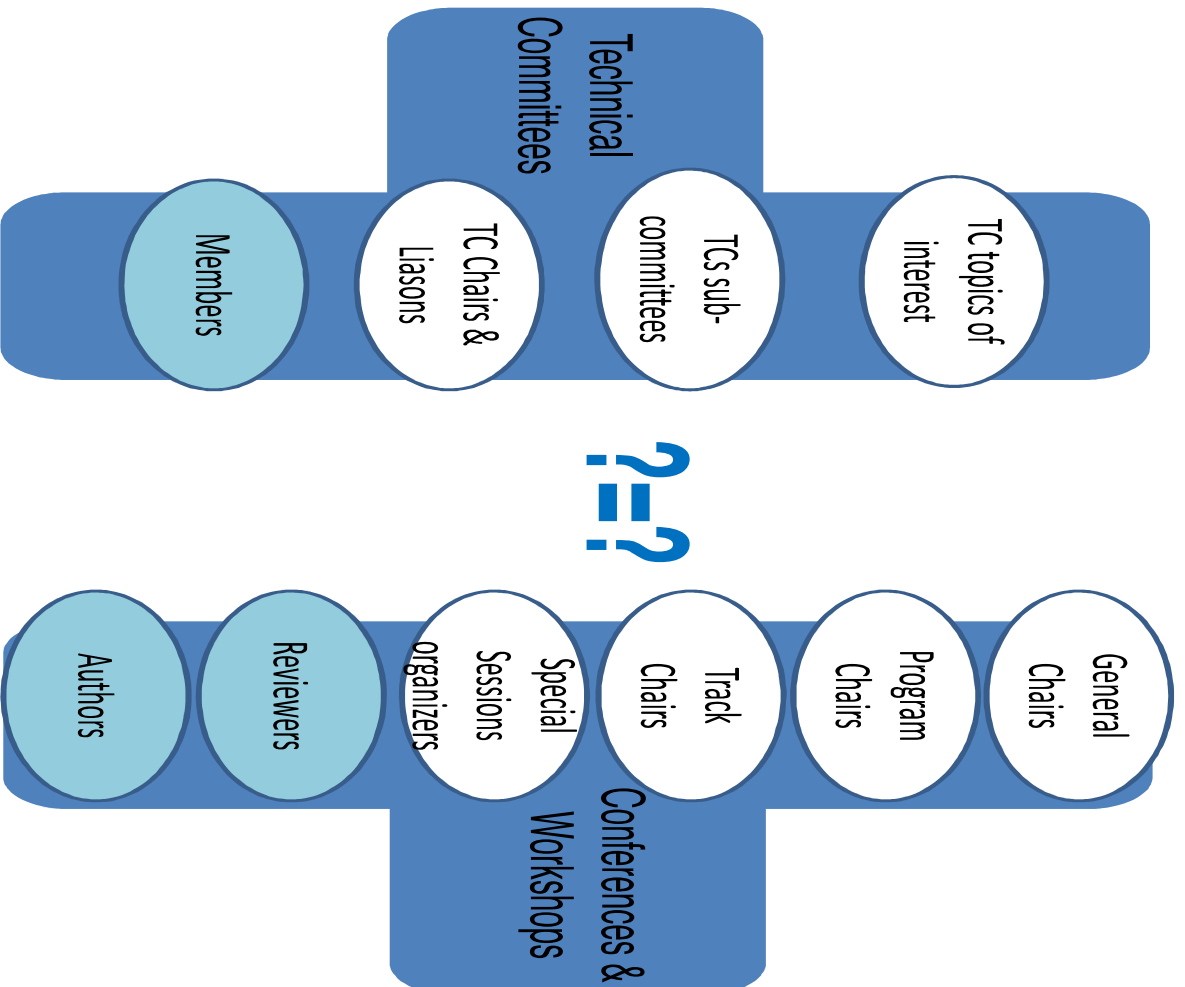
# Liaisons of TCs with Conferences&Workshops, Publications, Membership&Geographical Units



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

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# 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>

