

TC ANNUAL REPORTING FORM

IMS Technical Committee

TC-42 Photonic Technology in Instrumentation and Measurement

Reporting period

Starting date (dd/mm/yy)	Ending date (dd/mm/yy)	Date of submission (dd/mm/yy)
25/02/19	07/09/20	07/09/20

Website	Last update (mm/yy)
http://ieee-ims.org/technical-committees	09/20

TC Chair or co-Chairs

First Name	Second Name	Family Name	Affiliation /Address	Membership number	Phone	e-mail address	Date of election
George		Xiao	National Research Council (Canada)	90530871 (FIEEE)	613-991-6159	George.Xiao@nrc-cnrc.gc.ca	14/07/17
Tuan		Guo	Jinan University	90754842	+86-13450415860	tuanguo@jnu.edu.cn	14/07/17

Secretary (check the right box) Present Not Present

First Name	Second Name	Family Name	Affiliation /Address	Membership number	Phone	e-mail address	Date of election
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TC Membership list^(*)

First Name	Second Name	Family Name	Affiliation /Address	Membership number	Phone	e-mail address	TC assignments (joining year)
Zheng	Liu		University of British Columbia			zheng.liu@ieee.org	
Alberto	Vallan		Politecnico di Torino			alberto.vallan@polito.it	
Wojtek	Bock		Université du Québec en Outaouais			wojtek.bock@uqo.ca	
Zuyuan	He		Shanghai Jiaotong University			zuyuanhe@sjtu.edu.cn	
Xingyu	Fan		Shanghai Jiaotong University			fan.xinyu@sjtu.edu.cn	
Jianping	Yao		University of Ottawa			jpyao@uottawa.ca	
Hwa-yaw	Tam		Hong Kong Polytechnic			eehytam@polyu.edu.hk	

* Please add as many rows as needed

Chao	Lu	University Hong Kong Polytechnic University	enluchao@polyu.edu.hk
Yuwen	Qin	GuangDong University of Technology	qinyw@gdut.edu.cn
Luigi	Rovati	University of Modena and Reggio Emilia	luigi.rovati@unimore.it

TC mission – field of expertise (max. 1000 char. Including spaces)

The goals of this committee are:

- Promote and disseminate technical information related to the fields listed below via workshops, lectures, and technical papers.
- Maintain liaison with other groups, societies and organizations working in the same/similar area.
- Develop standards in the field as appropriate.
- Organize special sessions during the I2MTC and special issues in IMS sponsored IEEE/OSA Journal of Lightwave Technology.

The photonic technologies include:

- Photonic technology in the sensors and instrumentation for industrial and clinical applications.
- Photonic instrumentation for optical fiber communication applications.
- Novel photonic techniques for the measurement of physical, chemical and biological parameters.
- Micro- and nano-scale photonic sensors.
- Multiplexed and distributed photonic sensor networks.
- Smart photonic devices, structures and systems.
- Photonic sensing application, field tests and standardization.
- New concepts for photonic sensing.

TC meetings in the reporting period^(*)

Date (dd/mm/yy)	Online / Face2Face	Attendance (number)	TC Members	Information sent within 4 months to (Yes/No)		
				Chair of TSAC	IM Magazine	Other (specify)
01/07/2020	online	3	George Xiao, Tuan Guo	Special issue of JLT 2020	None	Yes

Minutes of the yearly meeting (separate file)¹:

Participation in Society sponsored Events (Conferences, Symposia, Workshops)^(*)

Name of the Event	Starting date (event)	Ending date (event)	Date Participation	Type of participation (Yes/No)			
				Sponsorship	Session	Tutorial	Other (specify) ²

¹ Yes/No, date of the yearly meeting;

² For example, Involvement in reviewing papers (and indicate approximate number of paper reviews for the listed event)

* Please add as many rows as needed



(dd/mm/yy) (dd/mm/yy) (dd/mm/yy)

None

Involvement in standard development^(*)

Standard	Working Group	Revision	Activity in the reporting period, including dates	Notes, attendance
None				

Participation in the development of Society Educational Programs^(*)

Program name	Involvement of chapters and sections	Activity in the reporting period, including dates	Notes, attendance
None			

Other Activities (tutorials, teaching, career, cooperation, publications, joint activity with chapters or sections) ^(*)

Type of activity	Starting date (dd/mm/yy)	Ending date (dd/mm/yy)	Activity in the reporting period	Notes, attendance
IEEE Journal of Lightwave Technology special issue	09/01/2020		Guest Editor (George Xiao, Tuan Guo, Luigi Rovati, Zuyuan He)	GUIDED LIGHTWAVES FOR SENSORS & MEASUREMENT SYSTEMS

Recommended candidates^(*)

Type (ADCOM, Fellow, Award –specify-)	First Name	Second Name	Family Name	Affiliation /Address	Motivation
None					

TC operating Plan: near-term plans for the upcoming year, including scheduled meetings, activities, and so on (max. 1000 char. Including spaces)

- Finalized a special issue in IMS sponsored IEEE/OSA Journal of Lightwave Technology

The special issue is "GUIDED LIGHTWAVES FOR SENSORS & MEASUREMENT SYSTEMS: ADVANCED TECHNIQUES and APPLICATIONS". (This is the third one following our previous 2017 and 2019)

* Please add as many rows as needed



TC operating plan: long term vision from 2-5 years out, based on IMS Strategic Plan, including areas of strength , areas for improvement, how is the subject area going to change, planned actions for lifting achievement succession plans etc. (max. 1000 char. Including spaces)

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- Organize special session I2MTC for 2021–2022.
 - Organize special issues in IMS sponsored IEEE/OSA Journal of Lightwave Technology 2022–2023.
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TC convergence, synergy, cooperation with other TC, from I&M or other societies (max. 1000 char. Including spaces)

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- Maintain liaison with other groups, societies and organizations working in the same/similar area.
 - To help IEEE-IMS to expand its potentials, and increase attention as the professional home to the instrumentation and measurement experts and engineers worldwide.
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Comments/Suggestions (max. 1000 char. Including spaces)

None
