



TC ANNUAL REPORTING FORM

IMS Technical Committee

13- Wireless and Telecommunications in Measurements

Reporting period

Starting date (dd/mm/yy)	Ending date (dd/mm/yy)	Date of submission (dd/mm/yy)
01/01/24	31/12/24	01/02/25

NA

Website	Last update (mm/yy)
https://ieee-ims.org/technical-committee/tc-13	05/22

TC Chair or co-Chairs

First Name	Second Name	Family Name	Affiliation /Address	Membership number	Phone	e-mail address	Date of election
Octavia	Adina	Dobre	Memorial University, Canada	80249536	+17097304585	odobre@mun.ca	May 2019
Octavian	Adrian	Postolache	Iscte-IUL, Portugal	41278977	+351218418454	opostolache@lx.it.pt	May 2019

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
Edward		Sazonov	University of Alabama, USA			esazonov@eng.ua.edu	May 2019

TC Membership list^(*)

First Name	Second Name	Family Name	Affiliation /Address	Membership number	Phone	e-mail address	TC assignments (joining year)
Octavian	Adrian	Postolache	Iscte-University Institute of Lisbon, IT, Lisbon, Portugal	41278977	+351965302034	opostolache@lx.it.pt	May 2014

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Abdulrahman Al-		Ahdal	Umm Al-Qura University, Saudi Arabia		agahdal@uqu.edu.sa	May 2018
Niclas		Bjorsell,	University of Govle, Sweeden		Niclas.Bjorsell@hig.se	May 2016
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Marcu		Marius	Politehnica University of Timisoara, Romania		marius.marcu@cs.upt.ro	Oct 2018
Julian		Oreffioni	URM, Uruguay		juliano@fing.edu.uy	May 2014
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Zhai		Chao	UST, China		zhaichao@usct.edu.cn	May 2019
Lee G.		Fuente	Vrije Universiteit Brussel, Belgium		legonzal@vub.ac.be	May 2017
Lee		Barford	Samsung, USA		lee_barford@ieee.org	May 2014
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Gyula	Simon	University of Pannonia, Hungary	simon@dcs.uni-pannon.wa	May 2018
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Bruno	Ando	Universita Degli Studi di Catania, Italy	Bruno.ando@dieei.unict.it	May 2016
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Francisco	Ferrero Martim	Univesrity of Oviedo, Spain	fj.ferreromartin@gmail.com	May 2020

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

- Explore and establish innovative measurement principles for the new and emerging fields of telecommunications, with focus on: modern mobile radio (beyond 5G, 6G, WLAN, non-terrestrial and underwater communication systems) and optical telecommunications (fiber-optic based and optical wireless);
- Develop and promote new measurement standards for telecommunications;
- Develop and promote the application of new telecommunication standards in the field of distributed and smart instrumentation, IoT and its applications, such as smart cities and smart-health;
- Apply innovative communication technologies in the field of distributed measurement systems associated with healthcare, environment monitoring, manufacturing, energy, intelligent transportation and logistics;
- Promote international research collaboration in the field of application of new telecommunication standards in the field of instrumentation and measurement for healthcare and intelligent transportation.
- Organize seminars, summer schools, workshops, conferences where emerging instrumentation and state of the art telecommunications technologies with application in measurement and instrumentation systems can be disseminated.

TC meetings in the reporting period^(*)

^{*} Please add as many rows as needed

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)
		6	4		2	

Minutes of the yearly meeting (separate file)¹:

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

Name of the Event	Starting date (event) (dd/mm/yy)	Ending date (event) (dd/mm/yy)	Date Participation (dd/mm/yy)	Type of participation (Yes/No)			
				Sponsorship ₂	Session	Tutorial	Other (specify)
<i>Smart Systems for Ambient assisted Living Workshop</i>	12/07/2024	12/07/2024			X		The workshop was part of summer school "Smart Sensing for ambient assisted living" IEEE IMS PT and TC-13 organizers topics wireless in measurement were presented by a set of invited speakers
<i>Smart Systems for Ambient Assisted Living : Summer School</i>	08/07/2024	12/07/2024		I	X		International Summer Schools with IEEE IMS and BIP Erasmus + Support with topics of smart sensors and instrumentation for AAL, Organizers, TC-13, IEEE IMS PT, IEEE IMS SP, IEEE IMS DE
<i>35th Seminar of the Mobile Communications Thematic Network</i>	09/02/2024	09/02/2024					The seminar Ws organized in Covilha by different Portugal sention chapters including IMS PT but also TC-13, invited Keynote Octavian Postolache
<i>7th Workshop "Technologies for Everyday Life"</i>	16/12/2024	16/12/2024					During the workshop, research work developed by 6 PhD students, 1 recent PhD and ISCTE professor and 5 Master's students was presented. Wireless in measurement topics were considered. Organizers IMS, TC13, ISCTE but also SMU
<i>IEEE IMS Doctoral Consortium</i>	18/04/2024	18/04/2024					Eight presentations regarding PhD research followed by discussions; Organizers: IEEE IMS Portugal Chapter. IEEE IMS TC-13 and IEEE IMS PT, IEEE IMS SP and IEEE IMS

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

1st Workshop on Environment Monitoring	18/04/2024	20/04/2024	DE, Octavian Postolache, Olfa Kanoun and Francisco Ferrero Martin
IEEE IMS DOCTORAL CONSORTIUM	14/11/2024	14/11/2024	The activities carried out included an initial presentation of important topics related to environmental health, namely air quality, water quality and monitoring the acoustic component of the environment Organized, IEEE IMS Portugal Chapter. IEEE IMS TC-13 Three presentations regarding PhD research followed by discussions; Organizers: IEEE IMS Portugal Chapter. IEEE IMS TC-13 and IEEE IMS PT, Invited PhD Students from Al-Farabi University, Kazkhstant

Involvement in standard development^(*)

Standard	Working Group	Revision	Activity in the reporting period, including dates	Notes, attendance
IEEE Automatic Port Terminal Standard,	TC-13, and SMU			

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

Program name	Involvement of chapters and sections	Activity in the reporting period, including dates	Notes, attendance

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
DL keynote speaker at INSCIT 2024, João Pessoa, Brasil	06/09/24	06/09/2024		Octavian Postolache

* Please add as many rows as needed

DL Seminar "Smart Sensors and AI for Precision Agriculture", University of Suceava, Romania	21/10/2024	21/10/2024	DL, TC-13 support
DL Seminar, "Smart Sensors and AI for Precision Agriculture", Politehnica University of Bucharest, Romania	23/10/2024		Mandar k Khurjekar, IEEE IMS Romania and TC-13 Octavian Postolache, Keynote Speaker
Seminar on "Smart Sensors and AI for Physical Rehabilitation" Middlesex University, UK	15/12/2024		Octavian Postolache, invited Keynote Speaker

Recommended candidates^(*)

Type (ADCOM, Fellow, Award –specify-)	First Name	Second Name	Family Name	Affiliation /Address	Motivation
IEEE IMS Faculty Course Development Award, 2024	Octavian		Postolache		

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

Strengthen the relations with our societies under the IEEE Future Networks initiatives. Fruitful collaborations with the IEEE Communications Society and under IMS with TC-37.

Revise P&P Document

TC operating plan:

Connecting with Future Networks Development Endeavors

* Please add as many rows as needed

TC-13 is involved in the IEEE Future Networks initiative (previous IEEE 5G Initiative), with Octavia A. Dobre, Octavian Postolache and Telex Ngatched being active members. Octavia A. Dobre has participated in meetings, e.g., at Globecom 2019, also making presentations e.g., at Globecom 2019.

Additionally, Telex Ngatched from Memorial University is serving as a member of the Standard Committee in this Initiative. The involvement of the TC-13 in the IEEE Future Networks Initiative will continue.

The TC-13 focus will be on the emerging IoT, particularly on the industrial IoT (IIoT), as well as on its connection with beyond 5G networks as strategic areas. It is intended to develop new research directions regarding IIoT and AI associated with telecommunications and measurement.

In the Era of IoT and future Internet-of-everything (IoE), the development of new standards becomes an important objective of TC-13. This work is planned to involve members of the IEEE Instrumentation and Measurement Society (IMS) but also those active in other IEEE societies. Taking into account the specific of the standardization for telecommunications, special attention is granted to the collaboration between IMS and the IEEE Communication Society. TC-13 aims for the development of future standards that bridge the measurement and instrumentation with telecommunications, and fit well with the trends on low-pollution through low-power consumption, thus promoting the class of “green standards.”

TC convergence, synergy, cooperation with other TC, from I&M or other societies (max. 1000 char. Including spaces)

Strengthen the relations with our societies under the IEEE Future Networks initiatives. Fruitful collaborations with the IEEE Communications Society and under IMS with TC-37.

Fruitful collaboration with R8 IMS chapters such Spain, Romania and Germany.

Inside the Portugal fruitful collaboration with WTS chapter

Comments/Suggestions (max. 1000 char. Including spaces)

To organize a meeting of TCs two time per year including invited TCs from other societies.

* Please add as many rows as needed