

## 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)
<a href="https://ieee-ims.org/technical-committee/tc-13">https://ieee-ims.org/technical-committee/tc-13</a>	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<sup>(\*)</sup>

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

\* Please add as many rows as needed

Octavia	Adina	Dobre	Memorial University, Canada	80249536	odobre@mun.ca	May 2013
Edward		Sazonov	University of Alabama, USA		esazonov@eng.ua.edu	May 2019
Telex		Ngatched	Memorial University, Canada		tngatched@grenfell.mun.ca	May 2020
Muhammad		Shakir	University of the West of Schotland		muhammad.shakir@uws.ac.uk	May 2020
Hsi		-Pin M	National Tsing Hua University, Taiwan		hp@ee.nthu.edu.tw	May 2019
Wlodek		Kulesza	Blekinge Institute of Technology, Sweeden		wlodek.kulesza@bth.se	May 2020
Maciej		Zawodniok	Missouri Science and Technology, USA		mjzx9c@mst.edu	May 2019
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
David		Valeriu	Universitate a Tehnica Iasi, Romania,		valdavid@ee.tuiasi.ro	Oct 2016
Marcu		Marius	Politehnica University of Timisoara, Romania		marius.marcu@cs.upt.ro	Oct 2018
Julian		Oreffioni	URM, Uruguay		juliano@fing.edu.uy	May 2014
Rafael		Sorelo	URM, Uruguay		rsotelo@um.edu.uy	May 2014
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
Cristina		Schreiner	Universitate a Tehnica Iasi, Romania		cshrein@ee.tuiasi.ro	Oct 2017

\* Please add as many rows as needed

Valnez	Brusamareno	UFRGS, Brasil	valner.brusamarello@ufrgs.br	May 2019
Salceanu	Alexandru	Universitate a Tehnica Iasi, Romania	asalcean@iota.ee.tuiasi.ro	Oct 2018
Subhas	Mukhopadhyay	Maquarie Univesrity, Sydney, Australia	subhas.mukhopadhyay@mq.edu.au	May 2014
Mohamed	Hamid	University of Gavle, Sweeden	modhad@hig.se	May 2019
Annamaria	Varkouyi-Koczy	Obuda University, Hungary	koczy@mit.bme.hu	May 2017
Mart	Min	TTU, Estonia	mina@elin.ttu.ee	May 2017
Marco	Parvis	Politecnica di Torino, Italy	marco.parvis@polito.it	May 2014
Daniel	Peters	Physicalisch Technische Bundesanstalt, Germany	daniel.peters@ptb.de	May 2018
Cleonilson	Protásio de Souza	Universty of Pavaiba, Brazil	protasio@cear.ufpb.br	May 2017
Wuliang	Yin	University of Manchester, UK	Wulian.Yin@Manchester.ac.uk	May 2015
Yongsheng	Yang	Shanghai Maritime University	yangys_smu@126.com	May 2018
Diego	Barrettino	Sciences of Southern Switzerland	Diego.Barrentino@supsi.ch	May 2017
Gyula	Simon	University of Pannonia, Hungary	simon@dcs.uni-pannon.wa	May 2018
Jorge	Híguer	Catalonia Institute for Energy Research IRE, Spain,	jehiguera@irec.cat	Oct 2017
Voicu	Groza	University of Ottawa, Canada	VGroza@uottawa.ca	May 2015
Jesu-Charles	Bolomey	SUPELEC, France	bolomey@supelec.fr	May 2018
Francesco	Ferranti	Urije Universiteit Brussel, Belgium	Francesco.ferranti@vub.ac.be	May 2017
Vitor	Viegas	Polythecnic institute of	Vitor.Viegas@estsetubal.ips.pt	May 2017

\* Please add as many rows as needed

		Setubal, Portugal		
Bruno	Ando	Universita Degli Studi di Catania, Italy	Bruno.ando@dieei.unict.it	May 2016
Domenico	Capriglione	University of Salerno, Italy	dcapriglione@unisa.it	May 2017
Emiliano	Sisinni	University of Brescia, Italy	emiliano.sisinni@unibs.it	May 2017
Leopoldo	Angrisan	University of Salerno, Italy	angrisan@unina.it	May 2017
Yong	Yan	University of Kent, UK	y.yan@kent.ac.uk	May 2017
Andrew	Taberner	University of Auckland, NZ	a.taberner@auckland.ac.nz	May 2019
José Miguel	Dias Pereira	IPS/EST Setubal, Portugal	dias.pereira@estsetubal.ips.pt	May 2019
Fernando	Rangel	University Santa Catarina, Brasil	rangel.fernando@gmail.com	May 2019
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)<sup>1</sup>:

### 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)
Smart Systems for Ambient assisted Living Workshop	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
Smart Systems for Ambient Assisted Living : Summer School	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
35th Seminar of the Mobile Communications Thematic Network	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
7th Workshop "Technologies for Everyday Life"	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
IEEE IMS Doctoral Consortium	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

<sup>1</sup> Yes/No, date of the yearly meeting;

<sup>2</sup> 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

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  
environmentOrganized,  
IEEE IMS Portugal Chapter.  
IEEE IMS TC-13

IEEE IMS DOCTORAL  
CONSORTIUM

14/11/2024 14/11/2024

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,  
Kazakhstan

## Involvement in standard development<sup>(\*)</sup>

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<sup>(\*)</sup>

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) <sup>(\*)</sup>

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, TC-13 support
DL Seminar "Smart Sensors and AI for Precision Agriculture", University of Suceava, Romania	21/10/2024	21/10/2024		Mandar k Khurjekar, IEEE IMS Romania and TC-13
DL Seminar, "Smart Sensors and AI for Precision Agriculture", Politehnica University of Bucharest, Romania	23/10/2024			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<sup>(\*)</sup>

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**

<sup>\*</sup> Please add as many rows as needed

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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.”

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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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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

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

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

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