

TC ANNUAL REPORTING FORM

IMS Technical Committee

TC-18 Environmental Measurements

Reporting period

Starting date (dd/mm/yy)	Ending date (dd/mm/yy)	Date of submission (dd/mm/yy)
01/01/2019	12/10/2020	13/10/2020

Website

Last update (mm/yy)

TC Chair or co-Chairs

First Name	Second Name	Family Name	Affiliation /Address	Membership number	Phone	e-mail address	Date of election
Chi-Hung		Hwang	TIRI, NARLabs/Hsinchu, Taiwan	90634408	+886-988623523	chhwang@narlabs.org.tw	2018/10 Appointed by AdCom

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)
Subhas		Mukhopadhyay	Macquarie University			subhas.mukhopadhyay@mq.edu.au	
Chi-Hung		Hwang	Taiwan Instrument Research Institute, NARLabs			chhwang@narlabs.org.tw	
Henry		Leung	University of Calgary			leungh@ucalgary.ca	
Octavian		Postolache	Technical University of			opostolache@lx.it.pt	

* Please add as many rows as needed

			Lisbon
D.M.G.	Preethichandra	Central Queensland University	d.preethichandra@cqu.edu.au
Yuhao	Wang	Nanchang University, China	wangyuhao@ncu.edu.cn
Alex	Mason	Norwegian Meat and Poultry Research Center	alex.mason@animalia.no
Hartmut	Ewald	Universität Rostock	hartmut.ewald@uni-rostock.de
Michael	Gard	Ditch Witch	mgard@ditchwitch.com
Mike	Haji-sheikh	Northern Illinois University.	mhsheikh@niu.edu
Ian	Woodhead	Lincoln Agritech	ian.woodhead@lincolnagritech.co.nz
Bruno	Ando	University of Catania	bruno.ando@dieei.unict.it
Boby	George	Indian Institute of Technology Madras	boby@ee.iitm.ac.in
Tai-Shan	Liao	Taiwan Instrument Research Institute, NARLabs	tsliao@narlabs.org.tw
Mang	Ou-yang	National Chiao Tung University	oym.mail@gmail.com
Lijuan	Wang	University of Kent	L.Wang@kent.ac.uk
Der-Chen	Huang	National Chung Hsing University	huangdc@nchu.edu.tw
Yung-Bin	LIN	National Center for Research on Earthquake Engineering, NARLabs	yblin@narlabs.org.tw
Huan	Liu	ChinaUniversityofGeosciences	huan.liu@cug.edu.cn

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

Explore state-of-the-art methodology in sophisticated environmental measurement tools and techniques; Develop standards as appropriate in the field; Generate interest by conducting workshops and publishing papers; Maintain liaison with other groups, societies and organizations working in the same field.

* Please add as many rows as needed

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)
05/2019	Face2Face	6 (VP TSAC included)	Y	Y	N	

Minutes of the yearly meeting (separate file)¹:

2019 Meeting Minutes:

Action Item:

1. To organize a special session for I2MTC with TC 42. The topics focus on the sensors, systems, data analyzing for environmental measurements.
2. Planning for a special sessions for I&M Magazine, if possible.
3. Running TC-18 as a general application platform to demonstrate all the technical progress for the other TCs. Looking for possible cooperation with other TCs.
4. To extend the technical fields to include the modeling, data mining, and deep learning to enhance the environmental change predictions.

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	Session	Tutorial	Other (specify) ²
Special Session for I2MTC 2020			May/2020	N		N	Y/ remark: not success to have an individual session
Special Session for I2MTC 2021			May/2021	Y			

Involvement in standard development^(*)

Standard	Working Group	Revision	Activity in the reporting period, including dates	Notes, attendance
NA				

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

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

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

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
Representative of Sensor Council to Taipei Section	2019/01/01	2020/12/31	Y	

Recommended candidates^(*)

Type (ADCOM, Fellow, Award –specify-)	First Name	Second Name	Family Name	Affiliation /Address	Motivation
AdCOM					Nominated YP to AdCom in 2019 to fill the open position
Award					Nominated Best Application Award to Award Committee, for 2020 BAA (Not be awarded)

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

1. Organizing an annual meeting, May 2021
2. Organizing a Special Session for IEEE I2MTC 2021 (Approved by IEEE I2MTC)
3. To enlarge the TC members by proactive inviting colleagues whose research interests meet the goal of TC-18
4. Co-operate with TC-19 to host the IST 2020 meeting in Taiwan. (Due to COVID-19, this event has been postponed to 2021)
5. Working to have a special issue for I&M magazine.
6. Updating the website to include the best practices, patents, and publication highlights of the TC members.
7. Looking for possible cooperation with TC9, TC20 and TC22 for possible contributions for conferences and standards.

^{*} 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)

1. Extending the areas of interest to the topics that will impact human beings' sustainable development.
2. Extending the technical focuses from sensors and measurement system developments to include the environmental modeling, data mining and deep learning to enhance the predictions.
3. Continuously enlarge the members of TC-18 to cover the extended areas of interest.
4. Developing new standards by cooperating with the associated TCs.
5. Continuously organizing a special session for IEEE I2MTC and IEEE SAS.
6. Based on point 5, if success, to organize a new workshop for environmental measurements.

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

1. Cooperating with TC42 for organizing a special session for IEEE I2MTC.
2. Cooperating with TC19 for organizing IEEE IST 2020 in Taiwan (postponed to 2021 due to COVID-19)
3. Looking for participating the Standard development 1451.X with TC-9.

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

NA