TC ANNUAL REPORTING FORM

IMS Technical Committee

25 Medical and Biological Measurements

Reporting period

Starting date (dd/mm/yy)	Ending date (dd/mm/yy)	Date of submission (dd/mm/yy)
January 2024	December 2024	01/02/2025

Website https://ieee-ims.org/technical-committee/tc-25 Last update (06/23)

TC Chair or co-Chairs

First Name	Second Name	Family Name	Affiliation /Address	Membership number	Phone	e-mail address	Date of election or appointment
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Voicu		Groza	University of Ottawa	40275238	+1 613 745 7550	VGroza@uOttawa.ca	2008

Secretary (ecretary (check the right box) Present X Not		Not Pre	Not Present			
First Name	Second Name	Family Name	Affiliation /Address	Membership number	Phone	e-mail address	Date of election or appointment
Sabrina		Grassini	Politecnico di Torino	92667897		sabrina.grassini@polito.it	2020

TC Membership list^(*)

First Name	Second Name	Family Name	Affiliation /Address	Member ship number	Pho ne	e-mail address	TC assignments (joining year)
Marco		Parvis	Politecnico di Torino, Italy			marco.parvis@polito.it	Chair to 2019
Sergio		Rapuano	University of Sannio, Italy			rapuano@unisannio.it	Chair from 2020
Voicu		Groza	University of Ottawa, Canada			vgroza@uottawa.ca	Co-Chair

^{*} Please add as many rows as needed

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^{*} Please add as many rows as needed

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

- Sensors for the measurement of clinical and/or biological parameters. Many new or improved sensors are continuously developed that allow new and more accurate measurements and diagnoses to be performed.
- Data processing either conventional or non-conventional. The enormous amount of data generated by different kinds of instruments, such as TAC and NMR, requires processing strategies, which help the physicians to extract the most important features of each exam.
- Instrument and procedure characterization. Medical instruments and related data processing deeply interact with the physician who emits the diagnoses. This is a remarkable difference with respect to other 'conventional' instruments where standard accepted procedures are used for the uncertainty expression.
- Instrument interoperability and interconnection. Most diagnoses are obtained by combining tests results generated by different instruments. The 'data fusion' is often performed by the physician only at the end of the measurements process, but an easier possibility to access raw data generated by the different instruments could greatly improve the diagnosis quality.
- Measurement techniques for athletic performance. Assessing the athletic performance as well as discovering abnormal behavior due to as an example doped performers requires combining sensor, data processing and instruments and represents a challenge of increasing importance.
- Instruments and devices for impaired people. The advances in the digital processing and the micro and nanotechnology open new and surprising possibilities to help people who need help. This is a highly ethical research everyone should be committed to.
- Maintain liaisons with other committees, groups, societies, and organizations working on soft-computing technologies and in the applications fields.

TC meetings in the reporting period^(*)

Date (dd/mm/yy)	Online /	Attendance		Information s	Information sent within 4 months to (Yes/No)		
	Face2Face	(number)	TC Members	Chair of TSAC	IM Magazine	Other (specify)	
MeMeA steering committee (23/09/2024)	Telecon	15	12	Yes			
MeMeA steering committee (27/06/2024)	Face2Face	16	12	Yes			

Minutes of the yearly meeting (separate file)1

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

Name of the Event	Starting	arting Ending date Date		Type of participation (Yes/No)			
	date (event) (dd/mm/yy)	(event) (dd/mm/yy)	Partecipation (dd/mm/yy)	Sponsorship Session	n Tutorial	Other (specify) ²	
12MTC 2024	20/05/24	23/05/24	all			Peer review of papers and coordination of Special Sessions	
MeMeA 2024	26/06/24	28/06/24	all	X	X	Organizing entity	

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)

Involvement in standard development(*)

Standard	Working Group	Revision	Activity in the reporting period, including dates	Notes, attendance
IEEE P1721	SCOBPM	PAR Withdrawn		

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	several	several	Antonio Esposito – DI for 2023-2025 for novel human-computer interactions	

Recommended candidates(*)

Type (ADCOM, Fellow, Award –specify-)	First Name	Second Name	Family Name	Affiliation /Address	Motivation
specify /					

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

The TC sponsored and organized the MeMeA 2024 in Eindhoven, The Netherlands, on June 2024. TC-25 is now working on the organization of the XX edition of MeMeA, which will be held in Greece on May 2025. The TC is also working on an anniversary celebration proposal to thank the colleagues who allowed the growth of the MeMeA Symposium. A paper dedicated to the history of the Symposium highlighting how medical measurements changed in the last 20 years is in preparation and it will be submitted to IM Magazine. The new version of the video actually published on the TC web page, is still disseminated on Youtube. We plan to improve our visibility on the Society web site and on social media.

^{*} 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)

The TC plans to continue to sponsor the successful series of the MeMeA symposia in the next years and to look for the opportunity to start a new PAR about the blood pressure measurement in the long term. To that aim the new Procedures and Policies document has been submitted to Standards Association and has been approved.

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

The TC had valuable synergies with the Italy Chapter of IMS for a parallel event to MeMeA 2016 and with the Minneapolis Chapter for the organization of MeMeA 2017.

MeMeA is included in the Education Committee strategic plan as a potential venue for new joint initiatives: the IMS Tutorials, the IMS Open Day and the Short Courses. The MeMeA steering committee and the whole TC will contribute to the initiatives.

Some DL volunteers from the TC are often presented to the DL selections of the Education Committee and one of them used to be very active DL of the Society before COVID.

The TC-25 is involved in the Publications Committee initiatives to publish papers to raise the awareness of the IEEE members on the IMS technical activities.

Several TC-25 members are involved in IMS activities and in the AdCom; the TC-25 Chair is currently Executive Vice President and the TC Secretary is currently VP Membership.

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

^{*} Please add as many rows as needed