



## TC ANNUAL REPORTING FORM

### IMS Technical Committee

#### TC32 – Fault Tolerant Measurement Systems

#### Reporting period

| Starting date (dd/mm/yy) | Ending date (dd/mm/yy) | Date of submission (dd/mm/yy) |
|--------------------------|------------------------|-------------------------------|
| 01/01/24                 | 31/12/24               | 25/03/24                      |

#### NA

Website <https://iee-ims.org/technical-committee/tc-32> 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 |
|------------|-------------|-------------|------------------------|-------------------|-------|----------------------------|------------------|
| Ye Chow    |             | Kuang       | University of Waikato  |                   |       | Yechow.kuang@waikato.ac.nz | 2012             |
| Ciani      |             | Lorenzo     | University of Florence | 90341368          |       | lorenzo.ciani@unifi.it     | 2016             |

#### 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 |
|------------|-------------|-------------|-----------------------|-------------------|-------|---------------------------|------------------|
| Melanie    |             | Ooi         | University of Waikato |                   |       | Melanie.ooi@waikato.ac.nz | 2014             |

#### TC Membership list<sup>(\*)</sup>

| First Name | Second Name | Family Name | Affiliation /Address        | Membership number | Phone | e-mail address          | TC assignments (joining year) |
|------------|-------------|-------------|-----------------------------|-------------------|-------|-------------------------|-------------------------------|
| Gourab     |             | Sen Gupta   | Massey University           |                   |       | g.sengupta@massey.ac.nz | 2012                          |
| Arvind     |             | Rajan       | Brookfield Asset Management |                   |       | arvindrajan92@gmail.com | 2016                          |
| Vincenzo   |             | Piuri       | University of Milan         |                   |       | vincenzo.piuri@unimi.it | 2010                          |

\* Please add as many rows as needed

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

The goals of this Technical Committee are to promote the research activities to cover all aspects of theory and practice of fundamentals:

- reliable computing for instrumentation and measurement;
- reliable architecture for instrumentation;
- reliable computing for instrumentation and distributed sensors in a harsh environment.

**TC meetings in the reporting period<sup>(\*)</sup>**

| Date<br>(dd/mm/yy) | Online /<br>Face2Face   | Attendance<br>(number) | TC Members                                                       | Information sent within 4 months to (Yes/No) |             |                 |
|--------------------|-------------------------|------------------------|------------------------------------------------------------------|----------------------------------------------|-------------|-----------------|
|                    |                         |                        |                                                                  | Chair of TSAC                                | IM Magazine | Other (specify) |
| 22/05/24           | Online and<br>Face2Face | 4                      | Ye Chow Kuang, Lorenzo<br>Ciani, Melanie Ooi,<br>Serge Demidenko |                                              |             |                 |

**Minutes of the yearly meeting (separate file)<sup>1</sup>:**

**Participation in Society sponsored Events (Conferences, Symposia, Workshops)<sup>(\*)</sup>**

| Name of the Event                                                               | Starting<br>date (event)<br>(dd/mm/yy) | Ending date<br>(event)<br>(dd/mm/yy) | Date<br>Participation<br>(dd/mm/yy) | Type of participation (Yes/No)                                                                 |         |          |                                  |
|---------------------------------------------------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------|---------|----------|----------------------------------|
|                                                                                 |                                        |                                      |                                     | Sponsorship                                                                                    | Session | Tutorial | Other (specify) <sup>2</sup>     |
| IEEE I2MTC 2024                                                                 | 20/05/24                               | 23/05/24                             | All conference<br>days              | Instrumentation<br>and<br>measurement<br>for reliable, safe<br>and sustainable<br>applications |         |          | Lorenzo Ciani - ATPC             |
| 2024 IEEE<br>INTERNATIONAL<br>WORKSHOP ON<br>Metrology for<br>Industry4.0 & IoT | 29/05/24                               | 31/05/24                             | All conference<br>days              |                                                                                                |         |          | Lorenzo Ciani – General<br>Chair |
| 2024 IEEE<br>INTERNATIONAL<br>WORKSHOP ON                                       | 26/06/24                               | 28/06/24                             | All conference<br>days              | Measurement<br>for Improving<br>Quality,                                                       |         |          |                                  |

<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



Metrology for  
Automotive

Reliability and  
Safety in  
Automotive  
Applications

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

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

## 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                                    |
|-------------------|--------------------------|------------------------|-------------------------------------------------|------------------------------------------------------|
| IEEE TIM          |                          |                        | Senior Area Editor, Associate editor, reviewers | Outstanding associate editor<br>Outstanding reviewer |
| IEEE OJIM         |                          |                        | Guest editors, reviewers                        |                                                      |
| IEEE Access       |                          |                        | Associate editor, reviewers                     |                                                      |
| IEEE IMS Magazine |                          |                        | Editor in Chief, contributors, reviewers        |                                                      |

## Recommended candidates<sup>(\*)</sup>

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

\* Please add as many rows as needed



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–specify–)

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

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**TC operating plan:**

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The main members of TC32 will still contribute through ADCOM, IEEE TIM editorial and review as well as running special sessions for major I&M Society conferences. Several TC32 members are looking into the possibility of forging alliance of international workforce training program with transferable credits.

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

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\* Please add as many rows as needed

