

## TC ANNUAL REPORTING FORM

IMS Technical Committee

TC-7 Signals and Systems in Measurement

Reporting period

| Starting date (dd/mm/yy) | Ending date (dd/mm/yy) | Date of submission (dd/mm/yy) |
|--------------------------|------------------------|-------------------------------|
| 01/10/2020               | 30/09/2021             | 15/10/2021                    |

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 |
|------------|-------------|-------------|----------------------|-------------------|-------------|------------------------|------------------|
| Ruqiang    |             | Yan         | Xi'an Jiaotong Univ. | 41600650          | 13584054750 | yanruqiang@xjtu.edu.cn |                  |

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 |
|------------|-------------|-------------|----------------------|-------------------|-------|----------------|------------------|
|------------|-------------|-------------|----------------------|-------------------|-------|----------------|------------------|

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

| First Name | Second Name | Family Name | Affiliation /Address | Membership number | Phone | e-mail address           | TC assignments (joining year) |
|------------|-------------|-------------|----------------------|-------------------|-------|--------------------------|-------------------------------|
| Yuhua      |             | Cheng       |                      |                   |       | yhcheng@uestc.edu.cn     |                               |
| Weihua     |             | Li          |                      |                   |       | weihualee@gmail.com      |                               |
| Qingbo     |             | He          |                      |                   |       | qbhe@sjtu.edu.cn         |                               |
| Lingfei    |             | Mo          |                      |                   |       | lfmo@seu.edu.cn          |                               |
| Liye       |             | Zhao        |                      |                   |       | liyezhao@seu.edu.cn      |                               |
| Zhongkui   |             | Zhu         |                      |                   |       | zhuzhongkui@suda.edu.cn  |                               |
| Xuefeng    |             | Chen        |                      |                   |       | chenxf@mail.xjtu.edu.cn  |                               |
| Xingu      |             | Zhang       |                      |                   |       | xwzhang@mail.xjtu.edu.cn |                               |

\* Please add as many rows as needed

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

Promote the understanding of the discipline of Systems Engineering in the field of Instrumentation & Measurement;

Explore modeling and signal processing techniques which can greatly enhance test methodology, accuracy and efficiency through effective implementation of systems engineering;

Develop standards or implementation guides as the science develops;

Maintain liaison with other groups, societies, and standards activities working in the same area

## 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)  |
| 16/10/2020         | Face2Face             | 7                      | 3          |  |             | TC meeting for International Conference on Sensing, Measurement and Data Analytics in the Era of Artificial Intelligence (ICSMD2020) |
| 18/05/2021         | Online                | 15                     | 5          |  |             | Attending the special session of I2MTC proposed by TC-7  |
| 10/09/2021         | Online                | 8                      | 5          |  |             | Organizing committee meeting for ICSMD2021   |

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 date (event)<br>(dd/mm/yy) | Ending date (event)<br>(dd/mm/yy) | Date Participation<br>(dd/mm/yy) | Type of participation (Yes/No) |         |          |                              |
|-------------------|-------------------------------------|-----------------------------------|----------------------------------|--------------------------------|---------|----------|------------------------------|
|                   |                                     |                                   |                                  | Sponsorship                    | Session | Tutorial | Other (specify) <sup>2</sup> |
| I2MTC 2021        | 17/05/2021                          | 20/05/2021                        |                                  | YES                            |         |          | Reviewing papers             |
| ICSMD2020         | 15/10/2020                          | 17/10/2020                        |                                  | YES                            |         |          | Organizing Conference        |

<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

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

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

n/a

## 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 |
|--------------|--------------------------------------|---|-------------------|
|--------------|--------------------------------------|---|-------------------|

n/a

## 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 |
|---------------------|--------------------------|------------------------|--|-------------------|
| <i>Publications</i> |                          | <i>30/09/2021</i>      | <i>Organized Special issue on Instrumentation and Measurement around the word: China for IEEE Instrumentation and Measurement Magazine</i> |                   |
| <i>Publications</i> |                          | <i>16/01/2021</i>      | <i>Organized Special Section of ICSMD2020 on IEEE Transactions on Instrumentation and Measurement</i>                                      |                   |

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

| Type (ADCOM, Fellow, Award –specify-)        | First Name    | Second Name | Family Name  | Affiliation /Address             | Motivation   |
|--|---------------|-------------|--------------|----------------------------------|--|
| <i>Award: Outstand Young Enginners Award</i> | <i>Xingwu</i> |             | <i>Zhang</i> | <i>Xi'an Jiaotong University</i> | <i>Dr. Zhang is a very good candiate who has beeing working in the area of machine fault diagnosis</i> |

\* Please add as many rows as needed

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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-7 will propose special session for I2MTC 2022, and work with local chapters to deliver lectures for student in Xi'an Jiaotong University where the TC-7 chair is working now

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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)

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TC-7 will have regular meetings, organize annual conference on sensing, measurement and data analytics in the era of artificial intelligence (ICSMD), and also propose special sessions in I2MTC conference. TC-7 will also propose new standard on helicopter health monitoring

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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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Work together with TC-3 to organize International Conference on Sensing, Measurement and Data Analytics in the Era of Artificial Intelligence(ICSMD2021), Nanjing China, October 21-23, 2021, proposed special sessions on I2MTC 2022

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

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None

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