

	<b>CONFERENCE/ INTERNATIONAL WORKSHOP REPORT</b>		Document No	TIU.FA.FR.078E
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## The 22<sup>nd</sup> IEEE International Multi-Conference on Systems, Signals & Devices (IEEE-SSD2025)

### DATES & VENUE OF THE CONFERENCE:

17-20 February 2028, Monastir, Tunisia.

### NAMES & AFFILIATIONS OF THE SPEAKERS

1. Prof. Laszlo T. Koczy (Hungary): Fuzzy rule interpolation.
2. Prof. Ahmed Chemori (France): Motion Control of Complex Robotic Systems: From Concept to Real-Time Experiment.
3. Prof. Dhiya Al-Jumeily (UK): Beyond algorithms: the influence of data quality on artificial intelligence models' performance.
4. Prof. Sami El Ferik (Saudi Arabia).
5. Dr. Ali Al-Shaikhi (Saudi Arabia): KFUPM's Transformation Journey: Paving the Way to a World-Class Research-Intensive University.
6. Prof. Amin Abbosh (Australia): Portable Electromagnetic Medical Imaging: Translating Multidisciplinary Research into Practice.
7. Prof. Abir Hussain (UAE): Machine learning in agriculture.
8. Prof. Abdellah Kouzou (Algeria): Hybrid Multilevel Inverter Topologies for Grid-tied applications: Challenges and Innovations.
9. Prof. Nabil Derbel (Tunisia): Fractional Order Sliding Mode Control Applied to Robotic Manipulators.
10. Prof. Majid Al-Taei (UK): Tomorrow's Health: Enhancing Diabetes Care in Children and Adolescents with AI and Humanoid Robots.
11. Prof. Mohamed Benbouzid (France): Advanced Prognostics and Health Management: Beyond Deep Learning Technique.
12. Prof. Mohamed Djemai (France): New approach on hybrid and multi-agent systems: time-scale theory and applications.
13. Prof. Mohammed Salih (UK): Applications of terahertz quantum cascade lasers in space: Radiometric analysis of atomic oxygen as an example.
14. Dr. Nouha Alcheikh (UAE): Smart Micro-Sensors for Humidity and Gas Detection.

### NAMES OF THE ORGANIZING AND SPONSORING BODIES

1. Tishk International University (KRG, Iraq).
2. University of Sfax (Tunisia).
3. Philadelphia University (Jordan).
4. Chemnitz University of Technology (Germany).
5. Leipzig University of Applied Sciences (Germany).
6. King Fahd University of Petroleum and Minerals (Saudi Arabia).
7. The South Mediterranean University (Tunisia).
8. Institute of Electrical and Electronics Engineers (IEEE).
9. Green Circle Company (Jordan).

### THE OBJECTIVES OF THE CONFERENCE

- 1- The IEEE-SSD conference serves as a forum for researchers and specialists from leading research centers and universities around the world to present their findings and share experiences with other attendees.
- 2- The IEEE SSD conference features scientific sessions for distinguished invited researchers

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to discuss topics related to the conference themes.

- 3- The conference provides a scientific PhD3M competitions to encourage young researchers and graduate students to present their work.
- 4- All research papers presented at the conference is indexed in the global database "Scopus", and several distinguished research papers are selected (after expansion and modification) for publication in specialized international journals, as well as in chapters of scientific books published by international publishing houses.

#### **MAIN RESULTS/OUTCOMES OF THE CONFERENCE**

- The Tishk International University actively participated in the opening and closing sessions and the management of specialized scientific sessions, and is one of the organizers and supporters of the conference.
- There is a noticeable improvement in the number of supporters of the conference.
- The attendance at the 22nd edition of the conference was good. However, limited participation was observed in the specialized evening sessions.
- The conference will continue with its four tracks next year and will be held at the University of Catania, Italy, during the period 30 March- 2 April, 2026.

#### **THE RECOMMENDATIONS OF THE CONFERENCE (SHOULD BE SENT TO MHE/ GENERAL DIRECTORATE OF RESEARCH AND DEVELOPMENT)**

- Confirming TIU's participation in organizing and supporting the 23rd conference, which will be held at the University of Catania, Italy, from 30 March to 2 April 2026.
- The honorary chair, the general chair, and the chairperson of two tracks will be from our university.
- It was agreed that the upcoming SSD conferences will be hosted by the South Mediterranean University (Tunisia) in 2027 and the University of Leipzig (Germany) in 2028.
- There is a strong interest in artificial intelligence and its engineering applications, particularly those that have a noticeable impact on people's lives.
- There is also a growing interest in research on renewable energies and their smart management.
- Additionally, there is a focus on developing engineering education and scientific research in line with the rapid developments in technology and its applications.
- Continue to organize the PhD3M competition for PhD students or those who have recently obtained a doctorate to encourage young researchers.

#### **PARTICIPATION STATISTICS**

- No. of Submitted Papers: 315 papers by 948 authors from 34 countries.
- No. of Accepted Papers: 240 papers by 843 authors from 34 countries.
- No. of Papers submitted by Academia: 222 papers, Accepted 169 papers.
- No. of Papers submitted by Students: 93 papers, Accepted 71 papers.
- Acceptance Ratio for all Tracks: 76%
- No. of Accepted Papers from Iraq: 29 papers by 104 authors.
- No. of Accepted Papers from Tishk International University: 11 papers

#### **ATTENDANCE STATISTICS (FROM TIU AND FROM OTHER INSTITUTIONS)**

No. of Accepted Papers from Tishk International University: 11 papers by 10 Authors.

No. of Attendees from Tishk International University: 14 people.

#### **MEDIA COVERAGE**

Media coverage was through local newspapers and their presence was only at the opening session.

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<b>Total number of Conference submitted manuscripts</b>		315 papers + 4 Plenary sessions + 10 Keynote lectures.
<b>Main countries the manuscripts submitted from</b>		Tunisia, Saudi Arabia, Iraq, UAE, Algeria, Germany, France, Jordan, Italy, Kuwait, UK, Oman, Canada, USA, Libya, India, Australia, Spain, South Korea, Belgium, Portugal, Pakistan, Cyprus, Morocco, Uzbekistan, China, Kazakhstan, Turkey, Malaysia, Bangladeshi, Iran,
<b>The main tracks of the Conference</b>		Track 1: <b>Communication, Signal Processing &amp; Information Technologies (CSP)</b> Track 2: <b>Systems Automation &amp; Control (SAC)</b> Track 3: <b>Power Systems &amp; Smart Energies (PSE)</b> Track 4: <b>Sensors, Circuits &amp; Instrumentation Systems (SCI)</b>
	<b>Track 1 (CSP)</b>	No. of submitted papers: 123 No. of accepted papers: 89
	<b>Track 2 (SAC)</b>	No. of submitted papers: 80 No. of accepted papers: 67
	<b>Track 3 (PSE)</b>	No. of submitted papers: 65 No. of accepted papers: 47
	<b>Track 4 (SCI)</b>	No. of submitted papers: 47 No. of accepted papers: 37

Please attach the following documents as appendix to the present report:

- 1) The conference agenda
- 2) Some conference photos
- 3) List of TIU staff attended the conference
- 4) List of Non-TIU staff attended the conference
- 5) all material evidence of media coverage
- 6) Abstract/Proceedings Book

**Date**  
24 February, 2025

**Filled by**  
Prof. Qasim Mousa Obaidi