

I²MTC 2017 - WELCOME MESSAGE FROM THE CHAIRS

On behalf of the Organizing Committee of the International Instrumentation and Measurements Technology Conference, I²MTC2017, we welcome you to Torino, site of the first Parliament of Italy in 1861. We are very happy to host the Instrumentation and Measurements Society annual meeting in our University, Politecnico di Torino, and we hope you enjoy the opportunity to stay together, appreciate the technical sessions and expand your network of collaborations.

The I²MTC2017 conference theme is *“Man is the measure of all things”*. Following the I²MTC tradition, the 2017 conference consists of educational and technical sessions and sessions devoted to the presentation of industrial achievements. The tutorials consist of 16 lectures on four major topics: measurement basics, smart sensors, testing and certification, and industrial applications.

The conference consists of four plenary lectures and more than 40 technical and industrial sessions. After a rigorous reviewing process, 347 papers out of 524 total submitted ones were accepted for oral and poster presentations on all aspects of instrumentation and measurement science and technology-research, development and applications. In addition, a special Industry Day session fosters the exchange of knowledge and collaboration between scientists and industry. Special sessions on different topics, such as new fiber optic sensors, wireless sensors and IoT, measurements for health and for improving quality and safety in industry, environmental and chemical processing monitoring, and cultural heritage, as well as on new trends in education in the field of instrumentation and measurement, provide a comprehensive discussion of specific challenging and emerging issues in the instrumentation and measurement area.

In addition, the conference is hosting a IEEE Distinguished Lecture *“A Comprehensive Insight into Effective and Informed Archival Journal Publication Process – “Dos and Don’ts”*. Finally, there are some special events that you are encouraged to attend: the Graduate Student Panel Discussion and the Young Professionals Panel meet-up event, organized thanks to the efforts and contribution of young IMS members, as well as the Women in Instrumentation and Measurements Panel Discussion.

This year the conference is hosting a small exhibition of some replicas of the historical scientific instruments of the Galileo’s Museum in Florence. With Galileo and his statement to *“Measure what is measurable, and make measurable what is not so”*, science changed from a qualitative observation of nature and entered a new innovative dimension in which the experiment has become the focal point of the scientific method.



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In the conference days Politecnico di Torino is hosting also a one-of-a-kind bartender. The audience of the I²MTC 2017 conference will have the opportunity to see YuMi in action: the collaborative dual arm robot created by ABB will be serving coffee, showing his wide range of skills including accurate vision, dexterous grippers, sensitive force control feedback, flexible software and intrinsic safety features.

Regarding the social activities, the welcome reception and the gala dinner will be held in two residences of the Royal House of the Savoy, both inscribed in the UNESCO World Heritage list: the *Castello del Valentino*, which hosts the Faculty of Architecture of Politecnico di Torino and the wonderful Diana's Gallery at the *Reggia della Venaria Reale*, designed by Filippo Iuvarra in 1716. Then, the conference will close with a concert of the Polietnico choir, the choir of the students of Politecnico di Torino.

A special thank to the Technical Program Committee Members, to the Special Session organizers and to the reviewers who contributed to make this outstanding program possible. Finally, a special thank to the authors, whose research and development efforts are presented during the I²MTC2017.

Hope you enjoy the I²MTC 2017 in Torino, we did our best to make this event memorable.

Marco Parvis and Sabrina Grassini
I²MTC2017 General Conference Co-Chairs