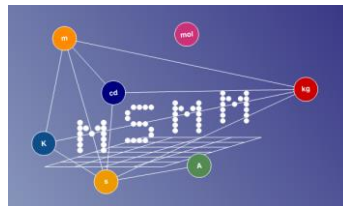# Call for Abstracts

Joint Workshop of ENBIS and MATHMET
Mathematical and Statistical Methods for Metrology

Virtual Workshop, 31 May and 1 June 2021

Recognizing the increasing need of *ad hoc* and innovative mathematical and statistical tools for current and emerging metrological applications in several areas of the Science of Measurement, the Italian local network of ENBIS, i.e. *it*ENBIS, the Italian National Metrology Institute INRIM and Politecnico di Torino organized in 2019 a joint Workshop on Mathematical and Statistical Methods for Metrology (MSMM 2019).

Based on the success of the previous edition and in view of the foreseen collaborations between statistical and metrological European communities, the forthcoming **MSMM 2021 Workshop** will be jointly organized by the **European Network for Business and Industrial Statistics** (ENBIS) and the **European Metrology Network (EMN) for Mathematics and Statistics** (MATHMET), under the local organization of INRIM and Politecnico di Torino.

Highlights of the Workshop include invited talks, as well as plenary, specialized and contributed sessions concerning the main topics of Mathematics and Statistics for metrological applications. Session topics include but are not limited to:

- Uncertainty and measurement quality evaluation
- Regression and inverse models
- Interlaboratory data evaluation
- High dimensional, dynamic and complex models
- Bayesian models
- Simulations and virtual experiments, computational methods and digital twins
- Artificial Intelligence, Machine Learning, Big Data analytics
- Statistical engineering
- Data and software reliability
- Design of experiments, sampling and sequential design
- Digitalization in Metrology

- Time series analysis
- Conformity assessment, reliability and quality control
- Chemometrics
- Biostatistics

A **joint introductory session** will be specifically dedicated to the presentation of the mission and main recent activities conducted by ENBIS and MATHMET, respectively, in order to foster collaborative interactions between the two bodies.

Due to the worldwide infection of COVID-19, MSMM 2021 will be held as an **online Virtual Workshop**. Virtual presentations will be offered in either of the following modes:

- **Oral presentations**: scheduled within the specialized and contributed sessions, oral presentations will be held live (synchronous presentations). They will last 15 minutes each plus 5 minutes for Q&A. A pre-recorded video of the presentation will be however required to the speakers in order to bypass possible connection problems during the oral presentation.
- **Poster presentations**: scheduled within the poster sessions, poster presentations are to be provided in the form of a 5 minute pre-recorded video (asynchronous presentations). After the presentations, each poster session will accommodate a live Q&A slot to discuss the videos just broadcasted.

Instructions on how to upload the abstracts and register for the workshop are available on the website http://www.msmm2021.polito.it. We kindly remind you the following important dates:

- **5 March 2021** – deadline for submission of a title and an extended abstract (max 2 pages)

- **16 April 2021** – acceptance notification to the authors

- **3 May 2021** – last date for early-bird registration

- **31 May - 1 June 2021** – Virtual Workshop

- In **June** – call for submission of papers to special issues of relevant scientific journals

Queries can be addressed to the Organizing Committee (http://www.msmm2021.polito.it/contact).

On behalf of ENBIS and MATHMET, we hope you will join the MSMM 2021 Workshop!

Francesca Pennecchi (INRIM, ENBIS, MATHMET)

and

Grazia Vicario (Politecnico di Torino, ENBIS)