

1st International Workshop on Metrology for virtual measuring instruments

Call for Papers

Date

21. – 22. September 2021

Physical location

PTB Berlin,
Abbestr. 2-12, 10587 Berlin

Participation fee (physical attendance): 180 €

Participation fee (virtual attendance): 100 €

Registration: [PTB website](#)

We increasingly see simulations, virtual experiments, digital twins and machine learning methods as a new standard in many areas. This concerns both industrial applications and research. From the point of view of quality assurance, this results in overriding questions:

1. How to ensure confidence in simulation results?
2. How to establish comparability of virtual and real measurements?
3. Which standards for interfaces, metadata and data formats are necessary?

These questions must be addressed promptly, especially in view of the rapidly advancing digitalization.

For this reason, the national metrology institute Physikalisch-Technische Bundesanstalt (PTB) is organizing the first international workshop "Metrology for virtual measuring instruments".

Contributions (1-2 pages) on the following topics can be submitted until 30 April 2021 by e-mail to VirtMet@ptb.de:

- Simulations, virtual experiments, digital twins in the fields of metrology, quality assurance, industrial application
- Example applications
- Sensors and methods for parameterization
- Software architectures for digital twins
- Validation, calibration and standardization
- Use of machine learning and artificial intelligence methods

Selected contributions will have the opportunity to be submitted for a special issue in the peer-reviewed Open Access journal MDPI *Metrology* (article charges 1000 CHF).

The workshop will be organized as a hybrid event. That is, you can attend in person at PTB Berlin physically or via a web-based platform virtually. Of course, you will get the most out of the event when participating physically in Berlin.

With best regards

The [VirtMet](#) organization team