

24th IMEKO TC-4 INTERNATIONAL SYMPOSIUM

22nd INTERNATIONAL WORKSHOP ON ADC AND DAC
MODELLING AND TESTING

PALERMO, ITALY - SEPTEMBER 14-16, 2020

CALL FOR PAPERS

for the Special Session on

CUTTING EDGE MICROWAVE MEASUREMENTS AND APPLICATIONS

ABSTRACT

The continuous progress of technologies and microwave measurement methods has led to an increase in applications in different fields of interest. The well-established fields such as aerospace, scientific research, military and telecommunications have been joined by fields that until a few years ago were marginally interested, such as environmental monitoring, biomedical instrumentations and assisted living, Internet of things and consumer applications. New and often exceptionally improved measurement methods and techniques revamped the microwave characterization of materials at microwave frequencies also in harsh or very difficult experimental environments, giving new tools to solid state physics and chemistry and paving the way to single-photon devices for quantum computation and quantum physics. This special session aims to be an opportunity to discuss and present solutions and applications of microwave measurements and related instrumentation in which technological applications or experimental challenges have been faced and solved.

Papers regarding Microwave devices, systems, instrumentation and methods are also welcome.

TOPICS

Topic of interest include but are not limited to:

- Microwave Sensor characterization (gas, temperature, VOCs, ...).
- Measurement procedures at critical conditions (Cryogenic temperatures, High temperatures, on field applications)
- Microwave instrumentation
- Microwave characterization of devices and systems
- New and improved experimental methods and techniques.

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