



102nd ARFTG Microwave Measurement Conference

Software Architectures and Automation of Microwave Measurement Methods and Systems

San Antonio, TX, US, January 21-24, 2024

www.arftg.org

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CALL FOR PAPERS

The theme for the 102nd ARFTG Conference is “*Software Architectures and Automation of Microwave Measurement Methods and Systems*”. As with previous ARFTG-winter events, ARFTG-102nd is co-located with the IEEE Radio & Wireless Week 2024. Through the course of ARFTG’s history, software and automation of microwave measurements have progressed tremendously: from the first simple automated network measurements to complex software-defined instrumentation and open-source integrated EDA tools. We encourage the submission of original papers demonstrating innovative approaches to tackle measurement challenges inherently linked to the high explosion of diverse applications based on EM waves. Suggested topics include but are not limited to:

- *Software, machine learning methods and AI application, open-source tools for automation in modern microwave measurements*
- *De-embedding, calibration, and characterization techniques*
- *Characterization of material properties and biological samples*
- *On-wafer characterization*
- *Millimeter-wave antenna and OTA testing*

Topics always of interest including:

- *RF/digital mixed-signal measurement and calibration*
- *Nonlinear / large-signal measurement and modeling techniques*
- *Terahertz measurement techniques*
- *Other recent developments in metrology incl. measurement uncertainty*

Deadlines

September 8, 2023

Paper summary due in PDF format.

October 6, 2023

Paper acceptance and classification will be communicated.

November 3, 2023

Publication-ready paper is due in PDF format.

Instructions for Authors

Contributed papers will be presented as 20-minute talks or in an interactive poster session. The final version of the papers will be published in the conference proceedings, and will be submitted as well to IEEE Xplore, provided it has been presented during the conference.

We request that authors submit a 4-page summary paper with supporting figures of both experimental setups and measurement results to enable evaluations of the novelty of the work. More details and submission instructions can be found at:

<http://www.arftg.org/index.php/upcoming-conference/author-instructions>

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