

**IEEE**

2020 IEEE INTERNATIONAL WORKSHOP ON

Metrology for AeroSpace

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»»»» CALL For PAPERS ««««

For the special session on **METROLOGY AND INSTRUMENTATION FOR UNMANNED AERIAL VEHICLES**

> ABSTRACT

Unmanned Aerial Vehicles (UAVs), Unmanned Aircraft Systems (UASs), Remotely Piloted Aircraft Systems (RPASs), or commonly used drones all describe one and the same thing: an aircraft or aircraft-system that is controlled from a remote without a human pilot onboard. No matter how you call them, they are becoming the most popular and growing sector in aviation. JARUS, EASA, FAA, and other national CAAs introduce laws for UAVs operations to secure safety for all airspace users. SESAR has launched a U-Space demonstrators network to speed up the implementation of Unmanned Traffic Management (UTM) systems. At the same time, scientists, researchers, and developers all over the World work on new measurement sensors, actuators, navigation, and control systems to support reliability, simplify control, and include maximum autonomy for all flights. This Special Session focuses on their work to present modern metrology and instrumentation developed for Unmanned Aerial Vehicles.

> TOPICS

That is why suitable topics for this Special Session include but are not limited to:

- Measurement sensors for UAVs.
- Instrumentation for UAVs.
- Metrology in U-space.
- Deployment of UAVs for measurements.
- Measurement data exchange between UAVs and Ground Station.
- Ground station, post-flight, and on-line measurement data analysis for UAVs.
- Measurement data in autonomous flight algorithms.
- Simulation environments and testing of UAV and its instrumentation.

> ORGANIZED BY



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> ABOUT THE CONVENER

Konrad Wojtowicz is an assistant professor at the Faculty of Mechatronics and Aerospace of the Military University of Technology, Warsaw, Poland, where he is an Associate Dean for International Affairs and a supervisor of the Students Scientific Association. He is taking part in two projects funded by the EU in the field of UAVs.

He received an M.Sc. degree in mechatronics, aeronautics and aerospace, air armament from the Military University of Technology, Warsaw in 2006, and a Ph.D. in mechanical engineering, in the area of hardware simulators for UAV mission and control system computers, in 2015.

He has participated in the institute's research related to developing an aircraft avionics system and simulation environment. He has been assigned to support military commissions as an expert in the Ministry of Defense and Air Force HQ. He conducts research mainly on avionics software development, software engineering, and simulators.



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