

Welcome to 1st IEEE Workshop on Metrology for AeroSpace

On behalf of the organizing committee, we cordially welcome you to the 1st IEEE Workshop on Metrology for AeroSpace (MetroAeroSpace).

The first edition of MetroAeroSpace will be held in Benevento, a historic town in the region of Campania. It was a base for Roman expansion in Southern Italy and an important stop on the Appian Way, the ancient Roman road connecting the west and east coasts. After being sacked in 452, Benevento was ruled by the Lombards (or Longobards) and Byzantines, and finally by the Pope who ruled the town for 800 years. Benevento, in a beautiful setting in the hills, is a pleasant place to visit, a good break from the heavily touristed areas near Naples and the Amalfi Coast and a chance to experience the feel of a Southern Italian town. Visiting Benevento is like a journey through history: the prehistoric and the Egyptian finds at the Museum of Sannio, Traiano's Arch and the Roman theatre, the Dome and the Church of Santa Sofia of Longobardian times, the undergrounds of the Prefectural Palace that host ARCOS, the contemporary art museum.

Benevento is included, for the Santa Sofia Complex, in the UNESCO World Heritage Sites for "*The Longobards in Italy, Places of Power, 568 - 774 A.D.*". It comprises seven groups of important buildings (including fortresses, churches, and monasteries) throughout the Italian Peninsula. They testify to the high achievement of the Lombards, who migrated from northern Europe and developed their own specific culture in Italy where they ruled over vast territories in the 6th to 8th centuries.

MetroAeroSpace covers aspects of the theory and practice of instrumentation, measurement for AeroSpace applications. We are sure that the universally recognized historical beauty of Benevento will be a perfect frame for this prestigious conference. It is, in fact, a further occasion, not only to meet old friends and new people from all over the world, but, moreover, to engage with them a continuous comparison directed to make wider the views on the technological progress of Metrology for AeroSpace.

The MetroAeroSpace organization was a complex task due to the large and increasing interest of our research and application areas. Efforts from many people were required to shape the technical program, arrange accommodation, manage the administrative aspects, and set up the social functions. We like to take this opportunity to thank all and each of them. We like also to thank the public and private organizations that supported the meeting in different ways. A special thank to Italian Air Force for supporting with several actions the Workshop.

The MetroAeroSpace Technical Program consists of XX oral and poster sessions scheduled over two days. With the wide range of technical sessions covering the many fields of metrology for aerospace we are happy to welcome you to the variety of technical presentations that await you this year. Thanks to all of the Technical Program Committee members and the reviewers who have contributed to make this outstanding program possible.

The technical program was particularly difficult to be arranged since we received, for this first Workshop XX abstracts from all over the world. Due to the time limits of the conference only XX papers have been selected after a painstaking activity of the program committee and additional reviewers. We like to thank all people who contributed to this process with opinions, comments, and suggestions to choose the best papers and even improve their quality.

The technical program encompasses several events and activities. The keynote speeches will be held by experts in the field of metrology for AeroSpace; Dr Roberto Sabatini, RMIT University – Australia, will

present the Innovative Flight Test Instrumentation and Techniques for Airborne Laser Systems Performance Analysis and Mission Effectiveness Evaluation, Prof.Dr.Uwe Sterr, Physikalisch-Technische Bundesanstalt (PTB) – Germany, will analyze the Optical Clocks for Applications on Ground and in Space.

Several parallel sessions will accommodate the contributed papers: to avoid overlapping of sessions on related topics, papers are distributed in separate thematic tracks. Some sessions are designated as special since they have been solicited and organized and will be chaired by well-known experts from the international industrial and academic communities.

Several Awards offered by International Institution and Companies will be assigned, in particular to young researchers.

The Workshop is about to begin. You are now in a position to enjoy the fellowship of colleagues and experts and to pass free time in natural and artistic beauties. It is up to you to appreciate the Workshop worth! Be critical! We, metrologists, colleagues, and friends, we know that this is the best way to improve quality, and to achieve lasting excellences.



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