

SPACOMM 2023

Forward

The Fifteenth International Conference on Advances in Satellite and Space Communications (SPACOMM 2023), held between April 24th and April 28th, 2023, continued a series of events attempting to evaluate the state of the art on academia and industry on the satellite, radar, and antennas-based communications, bringing together scientists and practitioners with challenging issues, achievements, and lessons learnt.

Significant efforts have been allotted to design and deploy global navigation satellite communications systems, Satellite navigation technologies, applications, and services experience still challenges related to signal processing, security, performance, and accuracy. Theories and practices on system-in-package RF design techniques, filters, passive circuits, microwaves, frequency handling, radars, antennas, and radio communications and radio waves propagation have been implemented. Services based on their use are now available, especially those for global positioning and navigation. For example, it is critical to identify the location of targets or the direction of arrival of any signal for civilians or on-purpose applications; smart antennas and advanced active filters are playing a crucial role. Also, progress has been made for transmission strategies; multiantenna systems can be used to increase the transmission speed without the need for more bandwidth or power. Special techniques and strategies have been developed and implemented in electronic warfare target location systems.

We take here the opportunity to warmly thank all the members of the SPACOMM 2023 technical program committee, as well as all the reviewers. The creation of such a high-quality conference program would not have been possible without their involvement. We also kindly thank all the authors who dedicated much of their time and effort to contribute to SPACOMM 2023. We truly believe that, thanks to all these efforts, the final conference program consisted of top-quality contributions. We also thank the members of the SPACOMM 2023 organizing committee for their help in handling the logistics of this event.

We hope that SPACOMM 2023 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in the field of satellite and space communications.

SPACOMM 2023 Chairs

SPACOMM 2023 Steering Committee

Timothy T. Pham, Jet Propulsion Laboratory - California Institute of Technology, USA
Stelios Papaharalabos, u-blox Athens, Greece
Oliver Michler, Technical University Dresden, Germany

SPACOMM 2023 Publicity Chairs

Laura Garcia, Universitat Politecnica de Valencia, Spain
Javier Rocher Morant, Universitat Politecnica de Valencia, Spain