SPACOMM 2025

Forward

The Seventeenth International Conference on Advances in Satellite and Space Communications (SPACOMM 2025), held between May 18-22, 2025 in Nice, France, 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; smarts 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 need for more bandwidth or power. Special techniques and strategies have been developed and implemented in electronic warfare target location systems.

We welcomed academic, research and industry contributions. The conference had the following tracks:

- Satellite and space communications
- Satellites and nano-satellites
- Satellite/space communications-based applications

We take here the opportunity to warmly thank all the members of the SPACOMM 2025 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 2025. 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 2025 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope that SPACOMM 2025 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in the domain of satellites and space communications. We also hope that Nice provided a pleasant environment during the conference and everyone saved some time to enjoy the historic charm of the city.

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