

SPACOMM 2016

Forward

The Eighth International Conference on Advances in Satellite and Space Communications (SPACOMM 2016), held between February 21-25, 2016 in Lisbon, Portugal, continued a series of events attempting to evaluate the state of the art in 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 still experience 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 need for more bandwidth or power. Special techniques and strategies have been developed and implemented in electronic warfare target location systems.

The conference had the following tracks:

- Signal processing in telecommunications
- Satellite and space communications

The conference also featured the following symposium:

- **RESENS 2016, *The International Symposium on Advances in Remote Sensing Technologies and Computation***

We take here the opportunity to warmly thank all the members of the SPACOMM 2016 technical program committee, as well as the numerous 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 that dedicated much of their time and effort to contribute to SPACOMM 2016. We truly believe that, thanks to all these efforts, the final conference program consisted of top quality contributions.

Also, this event could not have been a reality without the support of many individuals, organizations and sponsors. We also gratefully thank the members of the SPACOMM 2016 organizing committee for their help in handling the logistics and for their work that made this professional meeting a success.

We hope SPACOMM 2016 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in the field of

satellite and space communications. We also hope that Lisbon, Portugal, provided a pleasant environment during the conference and everyone saved some time to enjoy the beauty of the city.

SPACOMM 2016 Advisory Committee

Stelios Papaharalabos, National Centre for Scientific Research "Demokritos", Greece

Piotr Tyczka, Poznan University of Technology, Poland

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