

2020 IEEE INTERNATIONAL WORKSHOP ON Metrology for AeroSpace

PISA, ITALY / 22-24 JUNE, 2020

CALL For PAPERS For the special session on

METROLOGY FOR RADAR SYSTEMS

ABSTRACT

Papers are being collected from university researchers, from industries specialized in conceiving, designing, installing, operating and testing radar systems for civilian and defense applications, from users and governmental/international agencies. Authors are also invited from industries that provide instruments to test radar performances. The scope of the special session is to have a wide view of the methods, instruments and practical experience to test subsystems and radar systems (for land based, shipborne, on drones, aircraft and satellites).

TOPICS

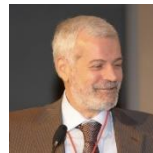
Topics of relevance for the session are: instrument test equipment for verification and validation in the industry, at the customer site, on the operational fields. Automation and remote test equipment will be of special interest. Virtual reality technologies are also most welcome as topics of the session. As well as LiDAR remote sensing and applications.

Other topics relevant to the session are: radar system architectures and related digital and software technologies at the state of the art.

ABOUT THE CONVENERS

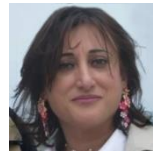
Alfonso FARINA, LFIEEE, FIET, FREng, Fellow of EURASIP, received the degree in Electronic Engineering from the University of Rome (IT) in 1973. In 1974, he joined Selenia, then Selex ES, where he became Director of the Analysis of Integrated Systems Unit and subsequently Director of Engineering of the Large Business Systems Division. In 2012, he was Senior VP and Chief Technology Officer of the company, reporting directly to the President. From 2013 to 2014, he was senior advisor to the CTO. He retired in October 2014. From 1979 to 1985, he was also professor of "Radar Techniques" at the University of Naples (IT). He is the author of more than 800 peer-reviewed technical publications and of books and monographs (published worldwide), some of them also translated in to Russian and Chinese. Some of the most significant awards he's received include: (2004) Leader of the team that won the First Prize of the first edition of the Finmeccanica Award for Innovation Technology, out of more than 330 submitted projects by the Companies of Finmeccanica Group; (2005) International Fellow of the Royal Academy of Engineering, U.K., and the fellowship was presented to him by HRH Prince Philip, the Duke of Edinburgh; (2010) IEEE Dennis J. Picard Medal for Radar Technologies and Applications for "Continuous, Innovative, Theoretical, and Practical Contributions to Radar Systems and Adaptive Signal Processing Techniques"; (2012) Oscar Masi award for the AULOS® "green" radar by the Italian Industrial Research Association (AIRI); (2014) IET Achievement Medal for "Outstanding contributions to radar system design, signal, data and image processing, and data fusion". He is a Visiting Professor at University College London (UCL), Dept. Electronic and Electrical Engineering, CTIF (Center for TeleInfrastructures) Industry Advisory Chair, and a Distinguished Lecturer (DL) of IEEE AESS.

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Silvia Ullo, IEEE Senior member, graduated cum laude in Electronic Engineering in 1989 at Federico II University, Naples. Awarded with an Italtel scholarship, accomplished a Microeconomics Program at Harvard University, in August 1990, and the Master of Science in Management at Massachusetts Institute of Technology (MIT), in 1992 (Cambridge, Massachusetts-USA). She worked with Italtel s.p.a. for 8 years as Research Engineer and Production Manager, and for 4 years with the Benevento Municipality, as Officer at the Data Elaboration Center (CED). Member of the Board of Directors for the Municipal Transport Society (AMTU) of Benevento for 3 years (1994-1997). Since 2004 Silvia Ullo is researcher with University of Sannio, Benevento (Italy), with interests in Data analysis through satellite remote sensing for Earth observation, communication networks with particular reference to the sensors networks and smart grids, radar detection in non-Gaussian environment, non-Gaussian models for the backscatter signal from natural surfaces.

Author of several scientific papers. Full list at: www.unisannio.it/it/user/622/biblio
She has been promoter of the Agreement with the MAPSAT, the CSEO (Cyprus Space Exploration Organisation), and with the Italian Atlantic Committee e ATA (Atlantic Treaty Association) and many other institutions and companies to work on research projects of joint interest that can involve Unisannio students for their bachelor and master program thesis. She has been as well promoter of the Agreement, signed in November 2017, between Unisannio and the MIT MISTI-Italy to involve MIT students in research projects at Unisannio and Coordinator of the Program.

Silvia Ullo has been Committee Member for the organization of the MIT Sloan Global Women's Conference, held in New York, 2017, and for the next one that will be held in New York, Fall 2019. She's an expert evaluator for MIUR, MISE, Italian Regions and European Commission of technical and strategic proposals, projects and programs of research and innovation, since 2013.

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