Call for Papers

URSI AT- RASC 2027

May 23 – 28, 2027

ExpoMeloneras Convention Centre, Gran Canaria

Important deadlines

Paper submission
January 18, 2027

Notification
March 1, 2027

Early bird & Author registration
April 15, 2027

Conference start
May 23, 2027

The triennial URSI Atlantic Radio Science Conference (URSI AT-RASC) is one of the URSI flagship conferences besides the URSI General Assembly and Scientific Symposium and the AP-RASC conference (Asia-Pacific Radio Science Conference).

This 5th URSI AT-RASC will be held as an in-person conference with only on-site presentations. The conference will have a series of convened and open sessions within the domains covered by all ten Commissions of URSI:

Commission A:	Electromagnetic Metrology	Commission F:	Wave Propagation and Remote Sensing
Commission B:	Fields and Waves		
Commission C:	Radiocommunication and Signal Processing Systems	Commission G:	Ionospheric Radio and Propagation
Commission D:	Electronics and Photonics	Commission H:	Waves in Plasmas
Commission E:	Electromagnetic Environment	Commission J:	Radio Astronomy
		Commission K:	Electromagnetics in Biology and Medicine

Paper submission deadline: January 18, 2027

Detailed information on paper submission as well as travel information will become available through the website: www.at-rasc.org. Authors can opt to submit papers presented at this 5th URSI AT-RASC to IEEE Xplore and can take advantage of reduced page charges when submitting the papers to Radio Science Letters. In addition, there will be special programs for young scientists, a student paper competition and programs for accompanying persons.

General Chair	Prof. Giuliano Manara, University of Pisa, Italy
Technical Program Committee Co-Chairs:	Prof. Rafaella Fiorelli, Instituto de Microelectrónica de Sevilla (IMSE-CNM), Spain
	Prof. Maria Jose Madero Ayora, Universidad de Sevilla, Spain
GL & WIRS Coordinator	Prof. Cristina García Miró, Centro de Desarrollos Tecnológicos, Observatorio de Yebes (IGN), Spain
Organizing Committee	Prof. Peter Van Daele, URSI Secretary General, Belgium
Publication Chair	Ms. Inge Lievens, URSI Congress Manager, Belgium

Please consult **www.at-rasc.org** for the latest information

Topics of Interest

Commission A – Electromagnetic Metrology
Antennas, Atomic-based mechatronics, Bioeffects and medical applications, EMC and EM metrology, High-frequency and millimeter wireless metrology, Impulse radar, Interconnect and packaging, Materials, Measurements and calibration in propagation, Microwave to submillimeter measurements/standards, Noise, Quantum metrology and fundamental concepts, Space plasma characterization, Techniques for remote sensing, Test facilities, THz metrology, Time and frequency, Time-domain metrology and other topics of interest.

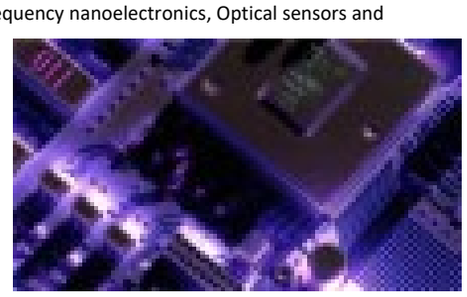
Commission B – Fields and Waves
Antenna arrays, Antennas: recent advances and future outlook, Antenna theory, design and measurements, Cognitive radio, Complex media (bandgap structures, biological and geophysical media, metamaterials, and others), Educational methods and tools,

Electromagnetic interaction and coupling, Guided waves and waveguiding structures, High-frequency techniques, Imaging, inverse scattering and remote sensing, Mathematical modeling of electromagnetic problems, Microstrip antennas and printed devices, Multiphysics electromagnetics, Nanoscale electromagnetics, Nonlinear electromagnetics , Numerical methods (differential- and integral-equation based, hybrid and other techniques), Optical phenomena, Optimization techniques in electromagnetics, Propagation phenomena and effects, Rough surfaces and random media, Scattering and diffraction, Theoretical electromagnetics, THz antennas and propagation, Transient fields, effects, and systems, Ultra-wideband electromagnetics , Wireless communications and other topics of interest.

Commission C – Radiocommunication Systems and Signal Processing

Cognitive radio and software defined radio, Distributed sensor networks and sensors array processing, Energy-efficient ("green") communications, Information theory, coding, modulation and detection, MIMO and MISO systems, Novel radio communication systems, Physics-based signal processing, Radar target detection, localization, and tracking, Radio localization and positioning, Signal and image processing, Spectrum and medium utilization, Statistical signal processing of waves in random media, Synthetic aperture and space-time processing, Wireless networking and other topics of interest.

Commission D – Electronics and Photonics
Broadband ubiquitous network, Energy harvesting in wireless systems, Fiber lasers and solid state lasers, Graphene nanoelectronics applications, Multi-physics modeling in radio frequency nanoelectronics, Optical sensors and biosensors, Plasmonics, RF MEMS and NEMS, Signal processing antennas, 60 GHz electronics, Trends in RFID for identification and sensing, Trends in THz communications and other topics of interest.



Commission E – Electromagnetic Environment and Interference

Communication in the presence of noise, Crosstalk, Electromagnetic compatibility education, Electromagnetic compatibility measurements and standards, Electromagnetic noise of natural origin, Electromagnetic radiation hazards, High-power effects of transients on electronic systems, Spectrum management and utilization and other topics of interest.

Commission F – Wave Propagation and Remote Sensing
Propagation measurements/models for fixed and mobile links, Measurements of fixed and mobile channels, Propagation models, Multipath/mitigation, Fixed terrestrial links: measurements and design strategies, Surface/atmosphere interaction, Dispersion/delay, Effects of natural/man-made structures, Outdoor to indoor propagation, Multi link MIMO channels, UWB channel characteristics, Small cell propagation, Remote sensing of the Earth/planets by radio waves, Passive sensing at millimeter wavelengths, Interferometry and SAR, Sensing of snow in open and forested environments, Remote sensing of precipitation, Atmospheric sensing, Sensing of soil moisture and biomass, Ocean and ice sensing, Urban environments, Radio Frequency Interference (RFI), Underground imaging, Propagation and remote sensing in complex and random media and o
ther topics of interest.

Commission G – Ionospheric Radio and Propagation

Ionospheric imaging, Ionospheric morphology, Ionospheric modeling and data assimilation , Radar and radio techniques for ionospheric diagnostics, Space weather – radio effects, Transionospheric radio propagation and systems effects and other topics of interest.

Commission H – Waves in Plasma
Chaos and turbulence in plasma, Plasma instabilities and wave propagation, Spacecraft-plasma interactions, Solar/planetary plasma interactions, Wave-wave and wave-particle interactions, Waves in laboratory plasmas and other topics of interest.

Commission J – Radio Astronomy
Detection of short-duration transients, Developments in array technology for radio astronomy, New telescopes, techniques, and observations, Radio frequency interference mitigation and spectrum usage, SKA, Timely technical tutorials and other topics of interest.

Commission K – Electromagnetics in Biology and Medicine
Biological effects, Dosimetry and exposure assessment, Electromagnetic imaging and sensing applications, Human body interactions with antennas and other electromagnetic devices, Therapeutic, rehabilitative, and other biomedical applications and other topics of interest.