

JOURNÉES SCIENTIFIQUES D'URSI-FRANCE

INTELLIGENT TOOLS AND METHODS FOR RADIO SCIENCE

MAY 5-7, 2026

TELECOM PARIS, INSTITUT POLYTECHNIQUE DE PARIS, PALAISEAU

CALL FOR SUBMISSIONS

In all fields of science, recent decades have been marked by advances in high-performance computing and its growing use in intelligent tools and methods. These advances have made it possible to increase the volume of simulations and to process masses of data that were previously unimaginable.

Radio science hasn't escaped this paradigm shift. New approaches such as statistical modelling, machine learning and, more broadly, artificial intelligence have emerged and are now in use.

This is largely behind the choice of theme for the 2026 URSI-France scientific workshop (JS 26): 'Intelligent tools and methods for radio sciences', with the following sub-topics:

- Automatic calibration of RF/EM instruments using AI, noise reduction and uncertainty quantification,
- Digital twins for optimising measurement benches and detecting sensor anomalies,
- PINNs and physical models (Maxwell), surrogates/ROMs for accelerating calculations,
- Generative AI and inverse design for materials, metasurfaces and multi-objective optimisation,
- Cell-Free Massive MIMO, RIS/intelligent metasurfaces, ISAC and semantic communications,
- Edge AI, Federated Learning OTA, PHY energy optimisation and data-driven networks (traffic forecasting, digital twins),
- Stochastic geometry and ML for positioning and deep reinforcement learning for dynamic adaptation,
- Foundation models and AI4Science for EM/photronics devices,
- Meta-learning, AutoML, hybrid physics-AI models, Bayesian optimisation and XAI,
- Interference detection and characterisation, system protection and susceptibility to interference,
- AI for antenna design and optimisation (beamforming, DOA), smart radars and SAR/sub-THz radar,
- Earth observation and remote sensing (soil moisture, water cycle),
- Microwave, millimeter and biomedical imaging,
- AI for EMF exposure modelling/prediction, dosimetry, medical implants, guided EM therapies and spatio-temporal mapping.

The workshop will be structured around keynote and invited communications, and oral and poster sessions, with the aim of allowing a fruitful meeting between young scientists, experienced researchers and industry players, participants or exhibitors.

► **The program will include an open session, allowing young scientists to present work on any subject relating to radio science.**

► **Furthermore, the URSI policy of supporting the participation of women in radioscience strongly encourages them to make their work visible within the framework of JS 26 workshop.**

ORGANIZATION

The workshop will take place from Tuesday May 5 to Thursday May 7 morning (2 ½ days) at Telecom Paris, Institut Polytechnique de Paris campus in Palaiseau. All information is available on the URSI-France website: <https://www.ursi-france.org>

COMMITTEES

Scientific committee chair: Joe Wiart (LTCI, Télécom Paris)

Djamel Allal (LNE) Elvira Astafyeva (IPGP, CNRS) Philippe Besnier (IETR, Insa Rennes) Shah Nawaz Burokur (Univ. Paris Nanterre) Jacques Claverie (CReC St-Cyr) Emmanuelle Conil (ANFR) Yoann Corre (Telecom R&D, Siradel) Virginie Deniau (Univ. Gustave Eiffel) Antonio de Domenico (Huawei France) Philippe de Doncker (OPERA WCG, Univ. libre de Bruxelles) Daniela Dragomirescu (LAAS) Inbar Fijalkow (ETIS, ENSEA) Davy Gaillot (Univ. Lille) Christophe Guiffaut (XLIM, Univ. Limoges) Sébastien Lalléchère (SAFRAN) Marc Lambert (GEEPS, CentraleSupélec)	Yves Lostanlen (Sigma Nova) Claire Migliaccio (LEAT, Univ. Côte d'Azur) Lluis M. Mir (URSI-France & Gustave Roussy, CNRS) Mattia Merluzzi (LETI, CEA) Shermila Mostarshedi (ESYCOM, Univ. Gustave Eiffel) Susana Naranjo Villamil (EDF R&D) Lionel Pichon (GEEPS, CentraleSupélec) Odile Picon (ESYCOM, Univ. Gustave Eiffel) Philippe Pouliguen (DGA) Florence Poulletier de Gannes (IMS, Univ. Bordeaux) Hélène Roussel (L2E, Sorbonne Univ.) Christophe Roblin (LTCI, Télécom Paris) Hmaied Shaiek (CEDRIC, CNAM) Shanshan Wang (LTCI, Télécom Paris) Martina Wiedner (Observatoire de Paris, CNRS) Yarui Zhang (SATIE, ENS Paris Saclay)
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Organizing committee chair: Alain SIBILLE (URSI-France & LTCI, Télécom Paris)

Lluis M. Mir (URSI-France & Gustave Roussy, CNRS) Christophe Roblin (LTCI, Télécom Paris) Hervé Sizun (URSI-France)	Shanshan Wang (LTCI, Télécom Paris) Joe Wiart (LTCI, Télécom Paris) Yarui Zhang (SATIE, ENS Paris-Saclay)
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CNFRS/URSI-FRANCE MEDAL AND RADIO SCIENCE PHD AWARD

The workshop will be the opportunity to remit the [annual URSI-France Medal](#), as well as the [Radio science PhD Award](#) under the aegis of [URSI-France](#) and of [ANFR](#).

GRANT & AWARD

- A **"Young researcher" grant of 300 euros and free registration** will be provided to the main author and presenter of the best article, if the candidate is under 35 on May 5, 2026, and affiliated with a European laboratory other than French.
- The best paper **"Young Scientist" award** will be selected by the scientific committee. The young scientist must be a Ph.D. student or post-doctoral student and the first author of the paper. It is recommended to submit a full paper rather than a short summary.

These two allocations are independent and may turn out to be given to the same person.

PUBLICATIONS

The proceedings will be available in open access on the URSI-France website (<https://www.ursi-france.org>). The authors of full papers will have the possibility to ask publication of the sole abstract. A selection of submissions will be proposed for extended publication in the **Comptes rendus de l'Académie des sciences - Physique** (in English).

INSTRUCTIONS FOR AUTHORS

The proposed paper should be submitted (preferably) in the form of a **full paper (≥ 3 pages)**, or (alternatively) of a **short summary (≤ 1 page)**, in PDF format, preferably in English, presenting sufficient content for scientific evaluation, including in the case of the summary (context, method, indication of original results, etc.). Submissions must comply with the guidelines set out in a template document. Once accepted, authors may provide a revised/completed version.

Submission web site: <https://ursifr-2026.sciencesconf.org>

The slides will be in English while the talks may be English or French.

KEY DATES

January 15, 2026
March 20
Avril 17
April 7
May 5-7

Submission deadline (short summary, papers)
Notification to authors of the scientific committee feedback
Deadline for upload of final documents (short summary, papers)
Registration deadline
Workshop

REGISTRATION

The **registration fee is 290 €** for each participant. It includes lunches, coffee breaks and a cocktail. A **145€ reduced fee** will be applied to students and retired participants without academic affiliation.

Registrations have to be made **online**: <https://ursifr-2026.sciencesconf.org>