UNION RADIO SCIENTIFIQUE INTERNATIONALE
COMITÉ NATIONAL FRANÇAIS DE RADIOÉLECTRICITÉ SCIENTIFIQUE
SIÈGE SOCIAL : ACADÉMIE DES SCIENCES, 23 QUAI DE CONTI, PARIS 6ÈME

URSI-FRANCE WORKSHOP

HARDWARE AND WIRELESS COMMUNICATIONS CYBERSECURITY

Threats, vulnerabilities and protections

16–18 MARCH 2027, LAAS-CNRS, TOULOUSE, FRANCE

CALL FOR PAPERS

Advances in research and the possibilities offered by artificial intelligence algorithms have highlighted the vulnerability of computer hardware and computer systems to cyberattacks, which are constantly increasing. Within these systems, wireless data communication channels are particularly vulnerable (eavesdropping, denial-of-service attacks, sender identity spoofing, etc.) because they can be attacked remotely, without physical contact.

This workshop will bring together the radio science, microelectronics, telecommunications and systems security communities. They aim to compare approaches, from metrology to countermeasures, and to foster interdisciplinary collaborations.

Conference topics

Track 1: Hardware attacks and countermeasures

- Side-channel attacks; Fault injection; Hardware reverse engineering; PUFs

Track 2: Communication and propagation security

- Physical-layer security; Radio-frequency fingerprinting; GNSS jamming; IoT, 5G and 6G security; Spectrum monitoring security; Software-defined radio; Radar

Track 3: Extreme electromagnetic and radiation environments

- IEMI; Radiation effects on reliability and security; Security of satellite links

Track 4: Regulatory framework

- Regulatory requirements, RED cybersecurity directive; Cyber Resilience Act

Track 5: Medical devices, electromagnetism and health

- Medical device cybersecurity; Biomedical wireless links; IEMI; Wireless power transfer

► *The programme will include **open sessions**, allowing scientists to present work **on any topic within radio science**.*

► *The programme will include **a "CyberSecurity in Action" session*** featuring 5-minute demonstrations or videos covering both offensive and defensive aspects of cybersecurity.

► *In addition, in line with the URSI policy of supporting the **participation of women in radio science**, women are strongly encouraged to make their work visible at JS 27.*

► *A selection of papers will be proposed for extended publication in the **Comptes rendus de l'Académie des sciences - Physique** (in English).*

https://ursifr-2027.sciencesconf.org/

Submission deadline: **16 December 2026**

COMMITTEES

Scientific Committee Chairs: Daniela Dragomirescu (LAAS-CNRS), Arnaud Vena (IES, Univ. Montpellier)

Ellie Awwad (LTCI, Telecom Paris)	Bernard Legrand (LAAS-CNRS, Toulouse)
Emmanuelle Conil (ANFR)	José Lopes Esteves (ANSSI)
Martial Defoort (TIMA, Univ. Grenoble Alpes)	Gaël Loubet (LAAS-CNRS, Toulouse)
Virginie Deniau (Univ. Gustave Eiffel)	Philippe Maurine (LIRMM, Univ. Montpellier)
Benoist Deschamps (ANFR)	Marc-Oliver Pahl (IRISA, IMT Atlantique)
Tristan Dubois (IMS, Univ. Bordeaux)	Olivier Rioul (LTCI, Telecom Paris)
Jean-Paul Guillet (IMS, Univ. Bordeaux)	Florence Sedes (IRIT, Toulouse)
Sylvain Guilley (Secure-IC, Cesson-Sévigné)	Alex Takacs (LAAS-CNRS, Toulouse)

Organizing Committee Chair: Daniela Dragomirescu (LAAS-CNRS)

Gaël Loubet (LAAS-CNRS, Toulouse)	Hervé Sizun (URSI-France)
Lluis M. Mir (URSI-France & Gustave Roussy, CNRS)	Alex Takacs (LAAS-CNRS, Toulouse)
Justine Praneuf (LAAS-CNRS, Toulouse)	Arnaud Vena (IES, Univ. Montpellier)
Alain Sibille (URSI France & LTCI, Telecom Paris)	Joe Wiart (LTCI, Télécom Paris)

URSI-FRANCE MEDAL AND PHD THESIS PRIZE IN RADIO SCIENCE

The workshop will be the occasion to present the **PhD Thesis Prize in Radio Science** with the support of ANFR, as well as the **URSI-France Annual Medal**.

GRANT AND PRIZES

- A **"Young Scientist" award** of **€300** and **free registration** will be awarded to the lead author and presenter of the best candidate paper, provided she/he is under 35 on 18 March 2027 and affiliated with a European laboratory outside France.
- The **"Young Researcher" best paper prize** will be granted by the scientific committee. The applicant must be a PhD student or postdoctoral researcher and first author**.** Submitting a full paper is recommended.

These two awards are independent and may be given to the same person.

PUBLICATIONS

The proceedings of JS 27 will be in open access on the URSI-France website. Authors of a paper may request that this publication be limited to the abstract only. A selection of papers may also be proposed for extended publication in the **Comptes rendus de l'Académie des sciences - Physique** (in English).

INSTRUCTIONS FOR AUTHORS

The proposed contribution must be submitted (preferably) as a **full paper (≥ 3 pages)**, or (alternatively) as a **short abstract (≤ 1 page)**, in PDF format, preferably in English, with sufficient content for scientific evaluation, including in the case of the abstract (context, method, indication of original results…). Submissions must follow the guidelines of a template document. After acceptance, authors may provide a revised/completed version of the submitted document.
Submission website: **https://ursifr-2027.sciencesconf.org**
Both English and French will be accepted for oral presentations, with slides preferably in English.

IMPORTANT DATES

16th December 2026	Submission deadline (short abstracts, papers)
29 th January 2027	Notification to authors of the scientific committee's decision
19 th February 2027	Final document submission deadline (short abstracts, papers)
1st March 2027	Registration deadline
16 th –18 th March 2027	Scientific Days 2027

REGISTRATION

The **registration fee of €350** includes lunches, coffee breaks, the cocktail reception on 16 March and dinner on 17 March. A **reduced fee of €175** is granted to students and to seniors without an institutional affiliation.