



URSI Newsletter – 2024/Q1

## Welcome

Welcome to our 2<sup>nd</sup> URSI Newsletter. Since our start end of 2023 with the new URSI Newsletter, we received several positive feedbacks. We are very grateful for these and we are happy you like the format and content.

This new URSI Newsletter will be published every quarter and will contain information on our Flagship meetings, conferences and activities of our scientific Commissions as well as our Member committees. If you have anything to report, you can always send this to us at the secretariat and we will try to include it.

This newsletter will also serve as a channel to provide you, as our URSI community, with information from the Board and also some administrative information which can be of interest to you and which concerns our union.

Please feel free to react and to provide information! Send your comments to [info@ursi.org](mailto:info@ursi.org)

## URSI Flagship Meetings

### 4th URSI Atlantic Radio Science Conference (URSI AT-RASC)

**19 - 24 May 2024 ExpoMeloneras Convention Centre, Gran Canaria**

Paper submission to AT-RASC 2024 is now closed and we are currently reviewing all submitted papers.

We are very thankful to all of you for your contributions. With a new record of 902 submissions, we got over the previous record number of submitted papers from the combined AT-AP-RASC



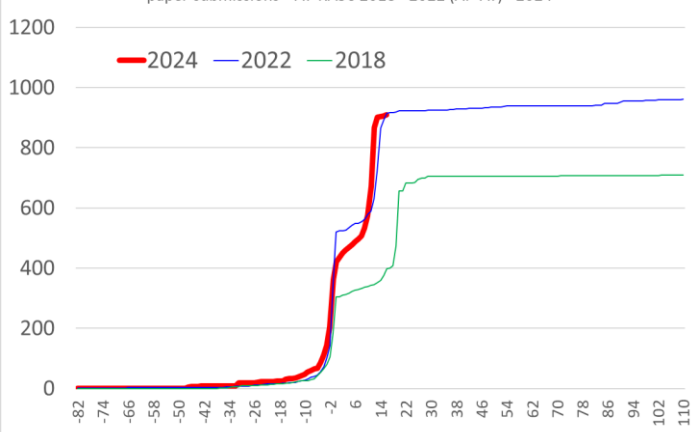
2022 conference and far above the number of submissions from the pre-COVID era. The graph shows the statistics on the paper submission. The impact of the extension of the paper submission deadline is great and significant. It shows the need to use a timeframe with some flexibility built in.

URSI Flagship meetings bring together presentations and activities from all ten URSI Commissions and provide therefore a unique forum at which radio scientists can meet and interact with their colleagues from different sub fields of radio science. This allows for cross-fertilization that can be an important source for innovative ideas and insights. The URSI Flagship meetings are the annual opportunity to meet and network!

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paper submissions - AT-RASC 2018 - 2022 (AP-AT) - 2024



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The following key dates are:

- Notification of acceptance: February 28, 2024
- Early bird & Author registration March 30, 2024
- Conference start May 19, 2024

Check the website: [www.at-rasc.org](http://www.at-rasc.org) where we are updating information.

As usual with URSI Flagship meetings, authors can opt to submit papers presented at this 4<sup>th</sup> URSI AT-RASC to IEEE Xplore and can take advantage of reduced page charges when submitting an extended or updated version of the papers to URSI Radio Science Letters. In addition, there will be special programs for young scientists and a student paper competition.

- Technical Programme Committee Chair: Stefan J. Wijnholds
- Organizing Committee Chair: Peter Van Daele
- Publication Chair: Inge Lievens



### URSI AP-RASC 2025

AP-RASC 2025 will be organised again as a separate event from 17 till 22 August 2025, after the combined edition AT-AP-RASC in 2022 and will take place in Sydney, Australia, bringing this Flagship meeting for the 1<sup>st</sup> time to this part of the world. Our colleagues at the Australian URSI Committee are very eager to make this event into a success and are now in full preparation. Website with updated information will soon be online.



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### URSI GASS 2026

The next URSI General Assembly and Scientific Symposium (GASS) will take place in Krakow, Poland from 15 till 22 August 2026



### URSI GASS 2029

In Sapporo at the occasion of our last General Assembly, URSI Council accepted the proposal from the URSI Committee in Singapore to host the XXXVI<sup>th</sup> GASS in Singapore from 11 till 18 August 2029.



### URSI School on Radio Science

The first edition of the URSI Radio Science School for Young Scientist (RSS\_YS) was held during the XXXVth URSI General Assembly and Scientific Symposium in Sapporo, Japan, on August 19-20, 2023.

The School is an educational initiative targeted at PhD Students, Postdoctoral fellows, Early Career Professionals with a focus on interdisciplinary topics in the field of radioscience. The School program should be designed to stimulate interdisciplinary cooperation among the participants (mostly Young Scientists) broadening and/or deepening their knowledge in the School topic.

The School was proposed by Prof. Carlo Carobbi, Vice-Chair of URSI Commission E, and it was co-organized with Dr. Andrea Michel, Early Career Representative of Commission B. The School proposal was supported by the URSI RSS\_YS Committee chaired by Prof. Giuliano Manara, URSI Vice President, and approved by the URSI Board.

For the first edition, the title of the School was "Electromagnetic Measurements". The scope was to present a broad view of the electromagnetic measurements adopted to investigate traditional and emerging research areas relevant to all the URSI Scientific Commissions. Measurement has a fundamental role in science being the main tool to interact with and investigate the physical world. Measurement is the means through which a theory is confirmed

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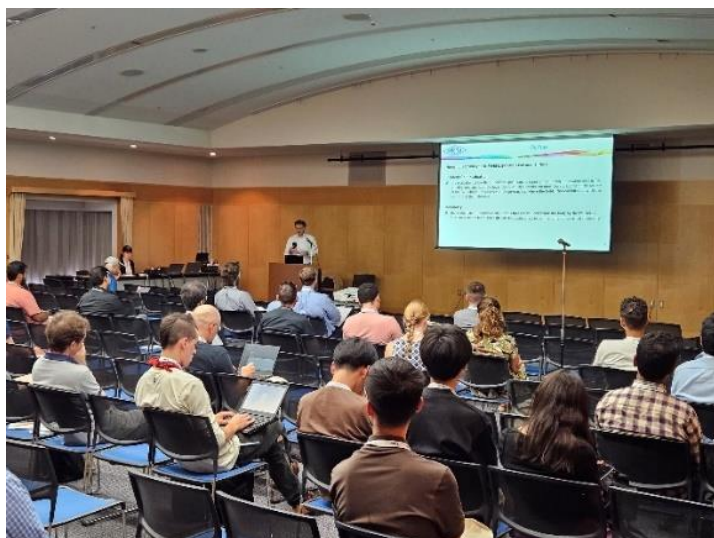
or rejected. Test and measurements are daily carried out all over the world for conformity assessment of products to safety standards and for the implementation of new technologies.

Four outstanding lecturers gave their contributions to the School:

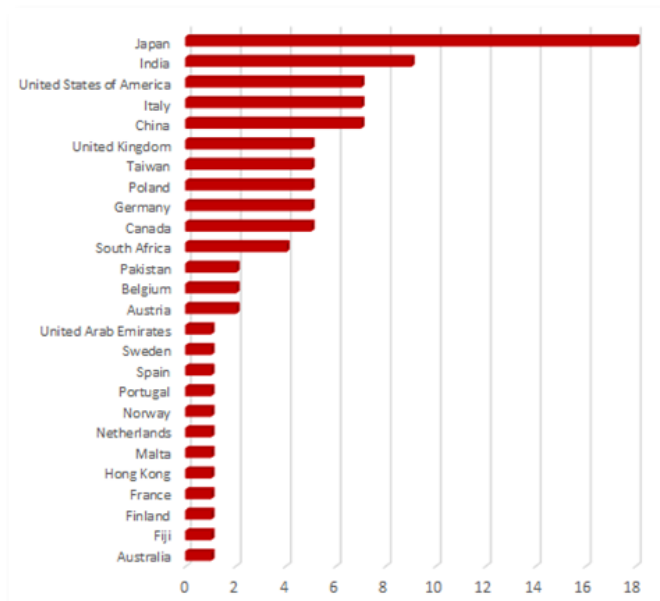
- Prof. Tian Hong Loh - Measurement techniques for emerging wireless technologies
- Dr. Myles H. Capstick - Human Electromagnetic Field Exposure Assessment: Incident Field Evaluations, Dosimetric Evaluations
- Prof. Yasuhide Hobara - Natural electromagnetic noise measurements
- Prof. Debatosh Guha - Is it difficult to Measure an Antenna?



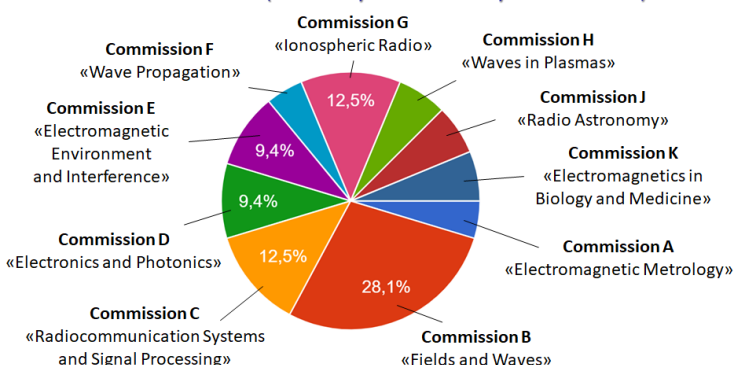
Lecturers of the first edition of the URSI Radio Science School for Young Scientists. From left to right: (a) Prof. Debatosh Guha and Prof. Yasuhide Hobara; (b) Prof. Tian Hong Loh, Prof. Debatosh Guha and Dr. Myles H. Capstick.



About 100 participants attended the School. Most of them were PhD students and Post Doc, with many Young Scientist Awardees, but also researchers and professors representing all 10 URSI Commissions and from all over the world.



#### URSI Commission (the one you are mostly interested in)



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### What next?

It is our pleasure to announce that the second edition of the URSI Radio Science School for Young Scientists will be held on Sunday May 19, 2024 during the 4th URSI Atlantic Radio Science Meeting, Gran Canaria (Spain).

The topic selected by the URSI RSS\_YS Committee for the next URSI AT-RASC 2024 is "Wireless Power Transmission for A Sustainable Society", and the School will be organized by Prof. Nuno Borges Carvalho (past Chair of Commission A).

We look forward to meeting all of you in Gran Canaria!

| URSI Radio Science School for YSs Committee |                        |
|---------------------------------------------|------------------------|
| Members                                     | Role                   |
| Giuliano Manara                             | Chair                  |
| Noshewan Shoaib                             | Representative Comm. A |
| Andrea Michel                               | Representative Comm. B |
| Krzysztof Cwalina                           | Representative Comm. C |
| Atsushi Kanno                               | Representative Comm. D |
| Chaouki Kasmi                               | Representative Comm. E |
| Slawomir Ambroziak                          | Representative Comm. F |
| Dario Sabbagh                               | Representative Comm. G |
| Pietro Zucca                                | Representative Comm. H |
| Mohamed Darwish                             | Representative Comm. J |
| Francesca Apollonio                         | Representative Comm. K |



Prof. Nuno Borges Carvalho

## URSI ECR Spotlight - Connecting Early Career Radio Scientists with URSI

Welcome to the ECR Spotlight, where we aim to bridge the gap between young radio scientists and URSI. In this inaugural edition, let us outline the purpose of this column.

Our aim is to inform, engage, and inspire you with all the activities, initiatives, and opportunities URSI has to offer you, and to champion your needs and priorities within URSI. Your feedback is indispensable in guiding our efforts in this endeavor. Whether you have suggestions for improvement, concerns to address, or ideas to share, we are here to listen and amplify your voices. Don't hesitate to reach out to us at [ECRnews@ursi.org](mailto:ECRnews@ursi.org).



Let's embark on this journey together, using this column to make early career radio scientists heard and valued.

Let us celebrate their diversity, innovation, and collaboration.

If you plan to attend our next meeting in AT-RASC 2024 in person, please reach out to us!

To stay updated on all things URSI and ECR-related, keep an eye out for future editions of this Newsletter.

Together, we can shape the future of radio science. Until next time,

Ricardo Figueiredo

URSI ECR Editor

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## URSI Member Committee Activities

### French URSI Committee Symposium “WAVES FOR PLASMAS, PLASMAS FOR WAVES”

Paris 5E, Jussieu Campus, 26-27 March 2024



Plasmas, these states of matter comprised of charged particles, play a pivotal role in a variety of industrial and scientific applications. These applications span from cleaning and material deposition to space propulsion and nuclear fusion, encompassing the study of the ionosphere, interplanetary environments, and astrophysical plasmas. Due to their electrical conductivity, plasmas interact with electric and magnetic fields in numerous ways. Electromagnetic waves can be harnessed to both generate and study plasmas, but conversely, plasmas can also serve as versatile tools for creating waves with appropriate characteristics.

The URSI-France 2024 workshop, organized under the auspices of the French Academy of sciences, will focus on "Waves for Plasmas, Plasmas for Waves". It will be structured around oral and poster sessions. Most

of the sessions will be introduced by keynotes and guest speakers, presenting the state of the art and/or recent developments, followed by papers selected by the scientific committee. All information related to the workshop is available on the [website](#). (pictures from the 2023 Symposium)



### XXXIX Simposio Nacional de la Unión Científica Internacional de Radio / XXXIX Spanish URSI Committee Symposium

Escuela Politécnica de Cuenca, Cuenca, 4-6 September 2024

The Spanish URSI National Committee Symposium is the most important gathering of the Spanish URSI community. It has been held without interruptions since 1980. Although the symposium is open to all URSI commissions, the Spanish URSI community is more active in telecommunications and radio-physics, with special emphasis in microwave engineering, antennas and radio-astronomy. More info at [www.ursi.es](http://www.ursi.es) and the 2024 conference [website](#).



### German National URSI conference,

Miltenberg (near Frankfurt), Germany, 24 – 26 September 2024

More information to follow soon.

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## Meetings with financial support by URSI Commissions

### EUSAR 2024 - April 23-26, 2024 - Munich

EUSAR 2024 will take place in Munich. This will be the 15th EUSAR conference, which has been held every two years since 1996.

EUSAR, the European Conference on Synthetic Aperture Radar, is the world's leading international conference dedicated to SAR techniques, technology, and applications. It is the open spirit of this conference that provides an excellent forum for the exchange of information and for discussion on a wide range of SAR related topics and recent developments.

In addition to the oral sessions there will be an interactive poster session. Awards for Best Paper, Best Poster and Best Student Paper will be presented on the last day of the conference.

EUSAR 2024 will also offer several full-day tutorial courses on the first day, covering topics such as polarimetry, interferometry, Pol-InSAR and bi-/multistatic SAR. They will comprise principles and basic theory, as well as an overview of applications and sensor systems. <https://www.eusar.de/en>

*High-resolution multi-temporal SAR image of downtown Munich acquired by TerraSAR-X. Changes are highlighted in red, volume scatterers in green, and stable scatterers in blue and white. (c) DLR 2023, All rights reserved.*



### CSNDSP 2024 - 14th International Symposium on Communication Systems, Networks and Digital Signal Processing 17-19 July 2024 Rome, Italy

CSNDSP has been running biennial since 1998 growing in size and success and normally attract about 200 delegates from around the world. It has been recognised as an international forum to present and exchange research findings and discuss future research topics in the fields of communication systems, communications networks, digital signal processing and other related areas. CSNDSP offers the opportunities for researchers to participate in organising workshops, tutorials, and open discussions in upcoming research topics. Papers accepted for presentation are published in IEEEExplore while selected papers are published in prestigious sponsoring journals.



*Biennial since 1998*

**CSNDSP**

2024

CSNDSP 2024 is hosted in the Eternal City of Rome, Italy. Founded in 753 b.C., participants will have the opportunity to enjoy Rome's beauty, its monuments full of history, art and culture. It will be also an excellent opportunity to taste local gastronomy and wines. (<https://comlab.uniroma3.it/CSNDSP2024.php>)

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## IRI 2024 - Modeling the Ionosphere over Africa and Improvements of the International Reference Ionosphere

2 - 8 September, 2024

Pwani University, Kilifi Kenya



The International Reference Ionosphere (IRI) is an international project sponsored by the Committee on Space Research (COSPAR) and the International Union of Radio Science (URSI). These organizations formed a Working Group in the late sixties to produce an empirical standard model of the ionosphere, based on all available data sources. Several steadily improved editions of the model have been released. For given location, time and date, IRI provides monthly averages of the electron density, electron temperature, ion temperature, and ion composition in the ionospheric altitude range. The IRI Workshop is open to all interested scientists. We welcome presentations that are IRI-related including comparisons of ground- and space-based data with IRI, improvements and applications of the model, and assimilation of data into IRI to bring it closer to real-time conditions. (<https://iri2024.pu.ac.ke/sources/index.php>)

## RFI2024 14-18 October 2024 Bariloche, Argentina

Spectrum sharing has become challenging due to the ever-growing demand for spectrum access by a wide range of emerging radio services. This in turn leads to an increased risk of Radio Frequency Interference between spectrum users. This is particularly true for passive scientific services such as radio astronomy, Earth remote sensing, or meteorology, where sensitive measurements must be carried out in frequency bands defined by the laws of nature.

# RFI2024

October 14-18, 2024

Bariloche, Argentina



Protecting the scarce radio spectrum resources for science, while accommodating the needs of other spectrum users, can only be achieved in a joint effort. RFI

2024 offers the venue to promote interaction, exchange of ideas, and cooperation between researchers, engineers, and users from all radio science disciplines dealing with RFI, uniting them under the common goal of working on solutions to minimize the impact of interference. RFI 2024 is the seventh in a series of workshops focusing on this topic, the first of which took place in Bonn, Germany, in 2001. ISAP 2023. More information on the [RFI2024 website](#).



**A full calendar of all meetings supported by URSI is available on the URSI website.**

## URSI WIRS – Women in Radio Science

Activities of the Women in Radio Science in the URSI GASS in Sapporo included the organisation of four technical sessions and a meeting to discuss how WIRS can be further promoted in URSI activities and leading technical conferences. The technical sessions included a session organised with Commission G 'Tribute to Pat Doherty' who initiated the Women in Radio Science during 'her term' as a member of the Board of URSI. Another session of invited speakers was organised with commissions GDJEH, and two other technical sessions were organised with Commissions A, and CF. All the four sessions were labelled with the prefix W to indicate that the sessions were organised by WIRS. In addition, during the GASS there were 91 Young Scientists awardees with 28 women who attended the GASS and 3 who were unable to attend [https://www.ursi.org/young\\_scientists.php](https://www.ursi.org/young_scientists.php).



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At the AT-RASC in May 2024 a WIRS discussion session is organised followed by a social event. The remaining activities of WIRS are in the technical programme which include a technical panel on 6G and three general lectures out of five being delivered by women. We look forward to meeting you at AT-RASC and for the formation of more national committees of WIRS.

## WIRS Italy Young Scientist event

**“Empowering waves: the radiant role of women in radio science”**

**February 16th, 2024, Faculty of Engineering, Sapienza University, Rome**

The Women in Radio Science (WIRS) Young Scientist event that will be organized for WIRS-URSI members in Italy on February 16<sup>th</sup> will take place in the Faculty of Engineering, Sapienza University of Rome.

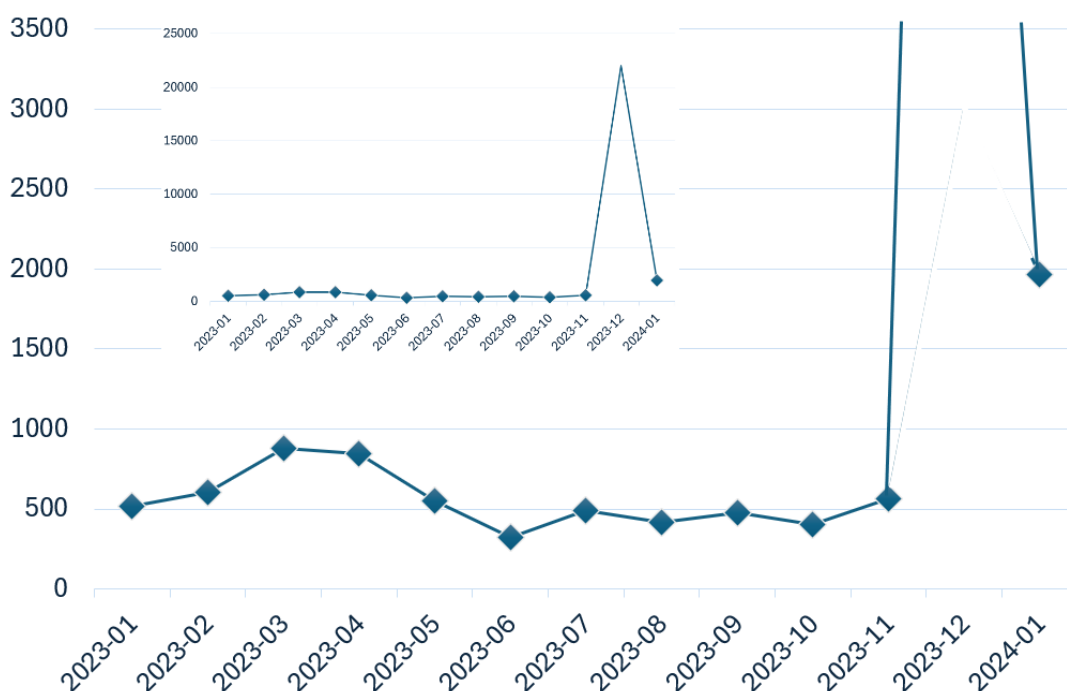
This will be a full-day event, organized by WIRS young scientists, that will delve into the opportunities and significant roles of women in radio science. A dedicated workshop will showcase emerging women scientists sharing their inspiring experiences, offering insights into their scientific journeys and lifework.

The workshop will be followed by a round table, where the audience can engage with the speakers, creating a space for discussion and exchange of ideas on gender themes related to the field of research and industry.

The event will be also open to PhD, master, and bachelor students and will be held in a hybrid modality for those who will not be able to participate in person.

## URSI Publications

Papers submitted to and published in the URSI Radio Science Letters have been assigned and registered with a DOI number. Since our last Flagship Meeting, the URSI GASS 2023 in Sapporo, we also register all papers published at these Flagship meetings. This registration is carried out through CrossRef ([www.crossref.org](http://www.crossref.org)). On a monthly basis the URSI Secretariat receives feedback on the number of “resolutions” for papers registered through URSI, which is the number of attempts to access that specific paper.



The monthly statistics show a quasi constant number of resolutions of around 500 to 800 per month in the period up to December 2023. In December 2023 we registered the GASS 2023 papers and made these publicly available through our website. This increased the number of resolutions to an amazing 22000 (cfr, inset)!! In January 2024, the number of resolutions remained around 2000 with the top 2 papers being papers presented at GASS 2023. Papers presented at GASS 2023 which are published through IEEE

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Xplore are not counted in these numbers as these papers are registered under the IEEE publication prefix for which we do not receive any feedback.

We can only congratulate you all for these results. They clearly show the impact of publishing a paper at the URSI Flagship meetings and how well your work is disseminated! This is a clear incentive to submit your paper to URSI Flagship meetings!

## URSI People

Our former President, Prof. Paul Cannon, has been elected as ISC Fellow.

The International Science Council (ISC) established the ISC Fellowship in 2022 to recognize individuals whose contributions have, and can in future, support the ISC's mission to be the global voice for science and advance science as a global public good. This fellowship is the highest honour the ISC can confer on an individual scientist and is very much an active rather than purely honorary role.

Nominations to the fellowship are made by members and associates of the ISC, its Governing Board, Fellowship Council and/or Secretariat and then evaluated formally by a selection process conducted by the Fellowship Council.



**International  
Science Council**

We are delighted that our former President has been recognized as an individual who can continue to make a unique contribution to ISC's mission and to global science leadership.

## URSI Membership

The purpose of individual membership of URSI is to secure professional recognition of individual radio scientists and to establish their better connection with the URSI Board of Officers, Scientific Commissions, and URSI Member Committees. Three categories of individual membership (URSI Corresponding Member, URSI Senior Member and URSI Fellow) have been established.

URSI Corresponding Membership is the first step into the URSI community and provides access to the proceedings of URSI Flagship Conferences via the website and notifications of new editions of URSI publications.

In addition, URSI Senior Members and URSI Fellows benefit from the following:

- Reduced registration fees at URSI Flagship Meetings.
- Reduced registration fees at some meetings organised by partnering organisations.
- A page charge reduction from 175 USD to 150 USD for papers published in the URSI journal, Radio Science Letters.
- An invitation to receive their individual membership certificate at an URSI Flagship meeting.

In order to provide some visibility to the URSI membership, we intend to publish, in each 1<sup>st</sup> issue of a new calendar year the current names of the URSI Fellows. In the 2<sup>nd</sup> issue of the calendar year we will publish the names and affiliations of the new URSI Senior Members.

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## URSI Fellows as of 01 January 2024:

URSI now has 110 URSI Fellows:

Prof. M. Akaike  
Prof. A. Altintas  
Prof. S. Ananthakrishnan  
Prof. M. Ando  
Prof. F.P. Andriulli  
Dr. Y.M.M. Antar  
Prof. Y. Arakawa  
Prof. W.A. Baan  
Dr. P. Banerjee  
Dr. P. Bauer  
Dr. R.F. Benson  
Prof. J.P. Berenger  
Prof. D. Bilitza  
Dr. D. Bock  
Prof. R. Booth  
Prof. R.F. Bradley  
Prof. C.M. Butler  
Prof. F.G. Canavero  
Prof. P.S. Cannon  
Prof. N.B. Carvalho  
Prof. M. Chandra  
Prof. V. Chandrasekar  
Prof. C. Christopoulos  
Prof. M.B. Cohen  
Prof. I. Daubechies  
Dr. W.A. Davis  
Dr. G. De Franceschi  
Prof. I. De Pater  
Prof. P. Degauque  
Prof. V. Deniau  
Prof. G. D'inzeo  
Prof. R.D. Ekers  
Prof. N. Engheta  
Dr. G.W. Farnell  
Dr. R.L. Gardner  
Dr. A. Georgiadis  
Dr. D.V. Giri  
Dr. R.A. Greenwald

Prof. F. Gronwald  
Prof. M.T. Hallikainen  
Mr. J. Hamelin  
Prof. M. Hayakawa  
Dr. J.H.M. Hénaff  
Prof. J.N. Hewitt  
Prof. E. Heyman  
Prof. H. Hirabayashi  
Prof. R.B. Horne  
Prof. U.S. Inan  
Prof. M. Inoue  
Prof. A. Ishimaru  
Prof. K. Ito  
Dr. H.G. James  
Prof. J. Jonas  
Prof. T.B. Jones  
Prof. E.V. Jull  
Prof. H. Kikuchi  
Prof. K. Kobayashi  
Prof. Y. Koyama  
Prof. P. Lagasse  
Dr. R.H. Lang  
Prof. J. Lichtenberger  
Prof. J.C. Lin  
Prof. I.V. Lindell  
Prof. Y. Louët  
Prof. M. Luise  
Prof. S. Maci  
Prof. G. Manara  
Prof. J. Manninen  
Dr. D.H. Massonnet  
Prof. J.D. Mathews  
Dr. L.M. Mir  
Dr. R. Mittra  
Dr. A.F. Molisch  
Prof. T. Oguchi  
Prof. T. Ohira  
Prof. Y. Omura

Dr. S. Paloscia  
Prof. H.V. Poor  
Dr. F. Prato  
Prof. Y. Rahmat-Samii  
Prof. B.W. Reinisch  
Dr. M.T. Rietveld  
Prof. P. Russer  
Prof. S. Salous  
Prof. O. Santolik  
Prof. R.T. Schilizzi  
Prof. K. Schlegel  
Prof. A.J. Seeds  
Prof. L. Shafai  
Prof. S. Shamai  
Dr. J. Shapira  
Prof. N. Shinohara  
Prof. A. Sihvola  
Prof. C. Sirtori  
Prof. I. Stanislawski  
Prof. G. Steinmeyer  
Dr. P. Stubbe  
Dr. U. Stumper  
Prof. M. Taki  
Prof. T. Tanzi  
Dr. S. Tedjini  
Prof. S. Ueno  
Prof. P.L.E. Uslenghi  
Prof. P. Van Daele  
Dr. A.P.J. Van Deursen  
Prof. J.L. Volakis  
Dr. J. Wiart  
Dr. Ph. Wilkinson  
Dr. R.F. Woodman  
Dr. A. Zaghloul

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