

MATERIAIS INTELIGENTES PARA A RADIOCIÊNCIA

17°

CONGRESSO DO COMITÉ
PORTUGUÊS DA URSI

PROGRAMA

09:00 - 09:15 **SESSÃO DE ABERTURA**

João Miguel Coelho, Vice-Presidente do Conselho de Administração da ANACOM

09:15 - 09:45 **KEYNOTE SPEAKER: URSI-PERSPECTIVES INTO THE PAST AND PRESENT OF RADIO SCIENCE**

Professor Ari Sihvola

Presidente da URSI e Professor de Eletromagnetismo na Faculdade de Engenharia Eletrotécnica da Universidade de Aalto (Finlândia).

09:45 - 10:15 **COFFEE BREAK**

10:15 - 11:15 **MATERIAIS INTELIGENTES PARA RADIOCIÊNCIA – UM EMPREENDIMENTO MULTIDISCIPLINAR**

MODERADOR: Sérgio Matos, ISCTE-IUL

ORADORES:

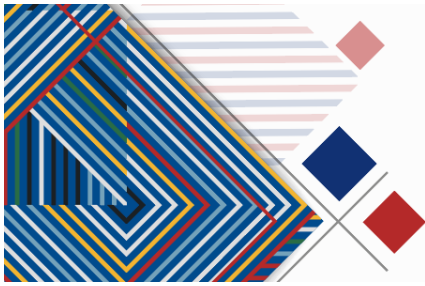
- **Luís Pessoa**, INESC-TEC
- **Asal Kiazadeh**, UNL
- **Rafael Caldeirinha**, IPLeiria, IT

11:15 - 12:00 **COOPERAÇÃO TECNOLÓGICA E SOBERANIA**

MODERADOR: Bruno Soares Gonçalves, IST

ORADORES:

- **Carlos Leitão**, SIRESP
- **Thomas Gasche**, Coordenador Científico do CINAMIL, Academia Militar



12:00 - 12:30 APRESENTAÇÃO URSI ESPANHA

Mikel Laso, Presidente do Comité Espanhol da URSI

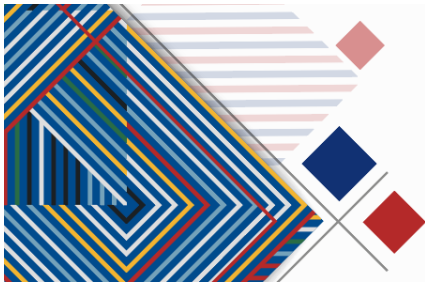
12:30 - 14:00 ALMOÇO

14:00 - 15:30 A INVESTIGAÇÃO NO DOMÍNIO DA RADIOCIÊNCIA EM ESPANHA

- Slotted Waveguide Antenna Design at W-band Using Stacked Glide-Symmetric Metal Sheets, S. Martínez, A. Tamayo, P. Olivares, and J.-M. Fernández (Student Paper Winner, Spanish URSI Symposium 2023).
- *In-House Copper Plated and 3D-Printed Antennas. A Low Cost and Rapid Iteration Process*, A. Tamayo-Domínguez, P. Sanchez-Olivares, J. Calatayud-Maeso, F. Rodriguez-Varela, and J.A. Vasquez-Peralvo.
- *Randomized low-rank matrix compression*, Juan M. Rius, Hector Lopez-Menchon, Robert Molina, Alexander Heldring, and Eduard Ubeda
- *Electromagnetic Solution of Large and Deep-multiscale Problems using Surface Integral Equation Techniques*. Víctor F. Martín, Diego M. Solís, José L. Rodríguez, Fernando Obelleiro, Luis Landesa, and José M. Taboada
- *Radiocommunication Activities at the Universitat Politècnica de València*. Miguel Ferrando-Bataller and Vicente Boria-Esbert
- *An overview of Implementation, Findings, Late-Time Instabilities, and reflection analysis in the Orthogonalized Integral-Based Subgridding Algorithm within FDTD*. Antonio M. Valverde, Miguel R. Cabello, Amelia R. Bretones, and Salvador G. García.

15:30 - 17:00 BEST STUDENT PAPER AWARD

- **Beatriz Quinta**, *Antenna Design for the Bio-Radar System*
- **Carolina Carreiras**, *Conformity and Electromagnetic Compatibility Analysis of RFID Systems*
- **Fábio Cardoso**, *Superfícies Inteligentes Reconfiguráveis: Precedentes de Escalabilidade*
- **Gonçalo Figueiredo**, *Photonic device based on a large-scale transparent luminescent solar concentrator for visible light communications for a sustainable Internet of Things*
- **Gonçalo Teixeira**, *Comparative Analysis of Efficient and Simplified BB84 in Satellite Communication Systems*
- **Guilherme Fonseca**, *First principles study of topological invariants of Weyl points in magnetized plasma*
- **João Silva**, *Highly Flexible and Scalable Millimeter Wave Software Defined Radio*
- **Margarida Fernandes**, *Antena ultra-compacta de alto ganho, baseada em Risley-Prism para a Ka-band para aplicações 5G-NR*
- **Pedro Francisco**, *Evaluation of ITU-R P.1546 propagation model for LoRaWAN applications in a maritime scenario*



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- **Pedro Mendes**, *Characterization of a free-space portable QKD system*
- **Raquel Martins**, *Impacto da Frequência e da Disposição das Antenas na Detecção de Tumores na Mama com Imagem por Micro-ondas*
- **Sofia Inácio**, *Graphene-based Unit-Cell for 1-bit Reflective Intelligent Surfaces at Microwave and mm-Wave*
- **Tiago Oliveira**, *A Double Squared Reconfigurable Intelligent for 3.6GHz*
- **Tiago Pécurto**, *Nó-LoRa para Monitorização de Florestas*
- **Tiago Pereira**, *Rounded Bowtie Antenna for High Frequency*
- **Vinicius Oliveira**, *Frequency Selective Surface Inspired by Portuguese Tiles*

17:00 - 17:15 COFFEE BREAK

17:15 - 19:00 CERIMÓNIA DE ENTREGA DE PRÉMIOS E ENCERRAMENTO

17:15 - 18:00 | PRÉMIO “MELHOR PROJETO DE INVESTIGAÇÃO”

- **Beatriz Quinta**, *Antenna Design for the Bio-Radar System*
- **Henrique de Figueiredo Chaves**, *WPT CubeSat Framework for Demonstrating Solar Power Satellites*
- **João Serra**, *Electromagnetic Spacetime Crystals*
- **Lúis Marques**, *Development of a mobile radiation detection system based on plastic scintillators with SiPM sensor*
- **Mariangel Vieira Castro**, *Low-Cost Approach to CubeSat Radar Altimetry for Climate Monitoring*
- **Paulo Capitão**, *Optimizing Emergency Response: IoT Solution for Post-Disaster Search and Rescue Operations*
- **Pedro Francisco**, *Evaluation of ITU-R P.1546 propagation model for LoRaWAN applications in a maritime scenario*
- **Vinicius Oliveira**, *Designing Efficient Antennas for Wireless Charging of Implantable Medical Devices in Deep Tissues*

18:00 – 18:10 | ENTREGA DO *BEST STUDENT PAPER AWARD*

18:10 – 18:20 | ENTREGA DO PRÉMIO ANACOM – URSI 2023

18:20 - 18:50 | APRESENTAÇÃO DO VENCEDOR DO PRÉMIO ANACOM – URSI 2023

18:50 - 19:00 | **MANUEL CABUGUEIRA**, VOGAL DO CONSELHO DE ADMINISTRAÇÃO DA ANACOM