



cambridge.org/mrf

Audrey Martin 

XLIM Laboratory, UMR CNRS n°7252, Department Components Circuits Signals and High Frequency Systems, University of Limoges, Limoges Cedex, France

## Editorial

**Cite this article:** Martin A (2023). IJMWT special issue on the 2022 French Microwave Days. *International Journal of Microwave and Wireless Technologies* **15**, 1633–1634. <https://doi.org/10.1017/S1759078723001344>

Email: [audrey.martin@xlim.fr](mailto:audrey.martin@xlim.fr)

This special issue of the International Journal of Microwave and Wireless Technologies is dedicated to topics discussed during the 22nd bi-annual French microwave conference, Journées Nationales Microondes (JNM) in French, literally, National (French) Microwave Days. This 22nd edition was held at the “Faculty of Law and Economic Sciences” in Limoges, France, on 7–10 June 2022. It was organized by XLIM, a joint laboratory between Centre National de la Recherche Scientifique (CNRS), University of Limoges, and University of Poitiers. XLIM has a **wealth of expertise** in the domain of electronics and microwaves, optics and photonics, mathematics, computer sciences and image for the application in communications and internet of things, secured environments, defense and space, biotechnology and health, energy control and saving.

The major sponsors for the conference were Amcad Engineering, Inoveos, Cisteme, and Diconex as gold sponsors, followed by CEA, XFab, and ad Ommic as silver sponsors, and GIS ALBATROS, Rohde&Schwartz, Sima-Lim, and SAFRAN as bronze sponsors.

This very successful event welcomed more than 500 attendees, both from France and abroad. The technical program, through oral and poster sessions, focused on the following topics: “Antennas and Propagation,” “Passive Components,” “Active Components,” “Systems and Associated Processing,” and “Emerging Technologies and Functional Materials.” The 22nd JNM conference was preceded by a single day thematic workshop on “Millimeter and Terahertz Imaging and Telecommunications.”

The scientific committee of the 22nd JNM conference was chaired by Pr. Philippe DESCAMPS (ENSICAen, Caen) with Dr. Stéphane BILA (CNRS, XLIM, Limoges) as Vice President. A total of 265 papers of a high technical level were presented – 140 during the 32 oral sessions, and 125 in 16 poster sessions – to which must be added five papers presented by invited renowned people and an industrial session. A specific exhibition area hosted 23 exhibitors during the 3 days with ABS Technics, ADDL, Alpha RLH, Amcad Engineering, Anritsu, AnyFields, ATEM, AVRUL, Cisteme, CT systems, Elliptika, ES, Hymag’In, Inoveos, Kapteos, MB Electronique, OMMIC, Rhode&Schwarz, Safran, S2P, Tech Inter, Tektronix, and Versys. The local organizing committee, with a team of many enthusiastic volunteers, was chaired by Dr. Stéphane BILA, including the following members: Marie-Claude Lerouge (administrative and financial management), Elise Guyot and Olivier Tantot (communication and web management), Thomas Fromenteze, Laure Huitema, Audrey Martin, Pierre Medrel and Guillaume Andrieu (conference logistics, meals and entertainment), Aurelian Crunteanu and Nicolas Delhote (thematic workshop), Cyrille Menudier and Sebastien Mons (exhibitors and sponsors), and Claire Dalmay and Baptiste Henriot (student organization team).

In addition to the sponsors, the 22nd JNM conference was also supported by the Region Nouvelle-Aquitaine, the European Microwave Association (EuMA), the Competitive Cluster Alpha-RLH, and IEEE France Section.

Eighteen papers were selected for the two conference prizes. The best oral presentation prize was awarded to Olivia Peytral-Rieu, David Dubuc, and Katia Grenier for “*Dispositif RF dédié à la détermination des propriétés diélectriques de sphéroïdes entre 500 MHz et 20 GHz.*” The best poster prize was awarded to Issam Marah, Anthony Ghiotto, Aurelie Verger, and Jean-Marie Pham for “*Circulateur guide d’ondes à hauteur réduite basé sur deux disques gyromagnétiques asymétriques.*”

This special issue of the International Journal of Microwave and Wireless Technologies, published by Cambridge University Press in collaboration with EuMA, covers the five topics with the 18 papers selected for best paper awards of the 22nd JNM conference. The authors were requested to submit an extended English version of their papers, and 10 international reviewers agreed to review them.

Finally, among the paper submitted, three of them were found suitable for publication in this special issue.

Papers accepted for publication in the IJMWT mini-special issue are:

1. "Adaptive digital predistortion based on Feedback-Wiener Model for aeronautical applications," by T.H.C. Bouazza, S. Bachir, M. Pastore, and C. Duvanaud.
2. "MF, ZF and MMSE filters for automotive OFDM radar," by B. Benmeziane, J.-Y. Baudais, S. Méric, and K. Cinglant.
3. "RF sensor dedicated to the dielectric characterization of spheroids between 500 MHz and 20 GHz," O. Peytral-Rieu, D. Dubuc, and K. Grenier.

We wish to acknowledge all the authors for submitting their papers and all the reviewers for their in-depth evaluation. We hope that this special issue will be enjoyable and of interest to

the readers through various topics in the microwave fields developed in France, and also that they will find extensive and useful information for their own research activities.



**Audrey Martin** received the PhD degree from the Limoges University, France, in 2007. She is currently an Associate Professor and Researcher in XLIM Laboratory, University of Limoges, France. Her main research interests include active microwave and millimeter-wave circuit design, power amplifiers, and nonlinear modeling techniques.