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EuCAP 2025 special issue

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Editorial

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Welcome to this special issue of the International Journal of Microwave and Wireless Technologies (IJMWT) dedicated to the 19th edition of the European Conference on Antennas and Propagation (EuCAP), which was held in Stockholm, Sweden, between March 30 and April 4, 2025.

EuCAP is organized by the European Association on Antennas and Propagation (EurAAP), an association dedicated to advancing research and development in the field of Antennas and Propagation. EurAAP's mission is to promote knowledge exchange among scientists and engineers, while fostering collaboration between businesses, universities, local companies, and the broader scientific and engineering community. Its activities are built on four main pillars: the flagship EuCAP conference, the European School of Antennas, the scientific journal Reviews of Electromagnetics, and a range of focused Working Groups. For more information, please visit www.euraap.org.

Over the past few years, a strong mutual technical interest has fostered a close and growing cooperation between EurAAP and the European Microwave Association (EuMA). As part of this collaboration, EurAAP has once again been invited – this year for the seventh consecutive time – to curate a guest issue of the IJMWT. This issue features a selection of high-quality contributions from EuCAP 2025, covering topics of broad relevance to the microwave community. The extended versions of these conference papers reflect our shared passion for microwaves with EuMA and the readership of IJMWT.

For this special issue, we invited extended versions of selected papers presented at EuCAP 2025, which featured a total of 1084 contributions. Each paper submitted to EuCAP 2025 underwent a thorough peer-review process, involving at least four expert reviewers, in accordance with the standards set by the EuCAP 2025 Technical Programme Committee. We hope that this special issue provides enjoyable and inspiring reading, encouraging new ideas and scientific collaborations. We would like to extend our gratitude to the authors, reviewers, the journal's editorial team, and especially the Editor-in-Chief of IJMWT for their invaluable support in bringing this issue to life.



Guido Valerio is a Professor at the Laboratoire de Genie Électrique et Électronique de Paris, at Sorbonne Université, Paris, France. His scientific research interests involve antenna design and numerical methods for wave propagation and scattering in complex structures, namely, periodic Green's function computation, modal properties of multilayered structures, modeling and design of periodic structures, metamaterials, and substrate integrated waveguides. He served as an Associate Editor for IEEE Access and is currently serving as an Associate Editor for IEEE Transaction on Antennas and Propagation. He was a recipient of the "Leopold B. Felsen Award for Excellence in Electrodynamics" in 2008 and was co-authors of different Best Papers at European Conference on Antennas and Propagation (2018, 2020, 2022, and 2026).



Francisco Mesa is a Full Professor of Applied Physics at the University of Seville (Spain) and currently an Affiliate Professor at the Royal Institute of Technology (KTH), Stockholm (Sweden). His research interests range from computational electromagnetics to theoretical aspects of wave propagation in complex and periodic structures. Specifically, he has worked on layered Green's functions, leaky waves, equivalent circuit modeling, higher symmetries, and ray tracing and physical optics applied to geodesic and GRIN lenses. Since 2014, he has been an IEEE Fellow and currently serves as a Topic Editor of the *IEEE Journal of Microwaves*.

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