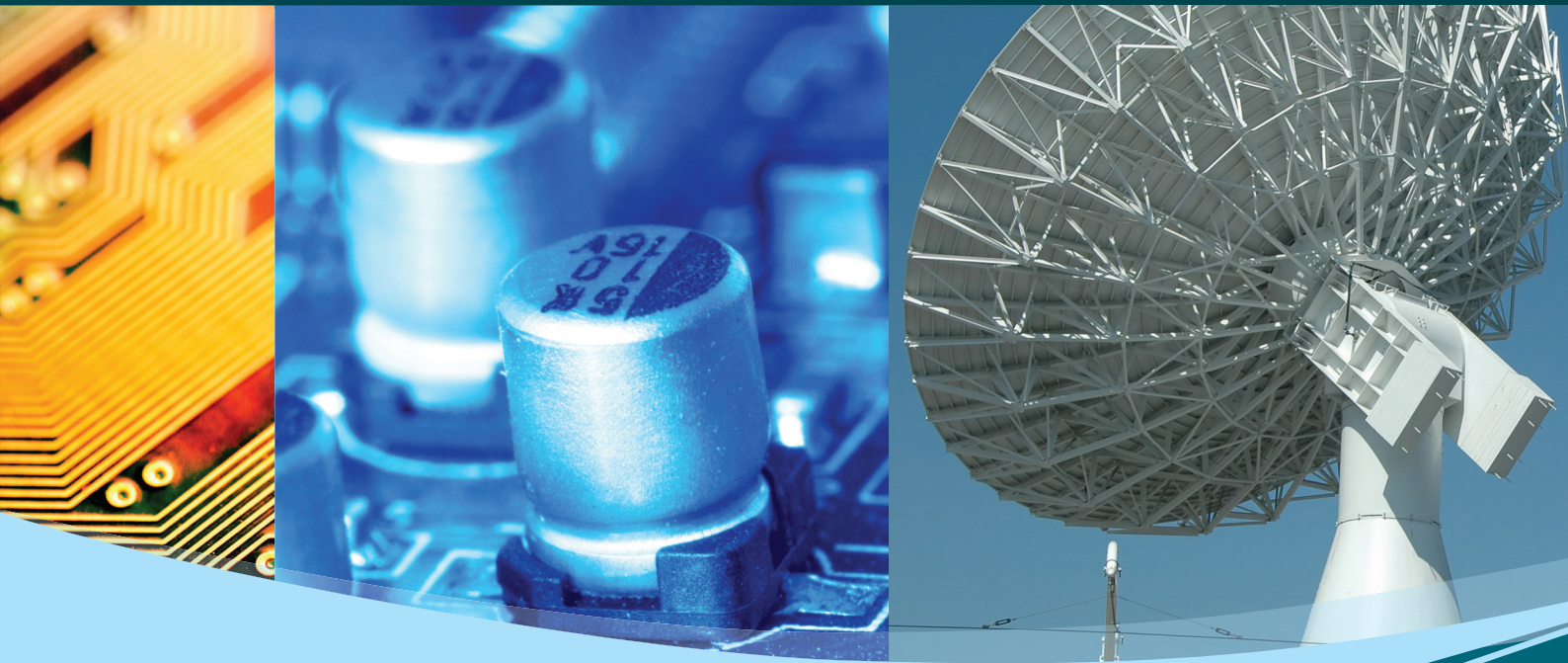


INTERNATIONAL JOURNAL OF
**MICROWAVE
AND WIRELESS
TECHNOLOGIES**

cambridge.org/mrf



EuMA



**CAMBRIDGE
UNIVERSITY PRESS**

MICROWAVE AND WIRELESS TECHNOLOGIES

EDITOR-IN-CHIEF

Prof. Marco Pasian,
Associate Professor of Electromagnetic
Fields
Department of Electrical, Computer and
Biomedical Engineering
University of Pavia
Via Adolfo Ferrata 5
27100-Pavia, Italy
marco.pasian@unipv.it

EDITORIAL BOARD

Prof. Luigi Boccia, University of Calabria,
Italy
Prof. Paolo Colantonio, Università di Tor
Vergata Roma, Italy
Prof. Wenjie Feng, South China
University of Technology, China
Prof. Philippe Ferrari, IMEP Grenoble,
France
Prof. Gaspare Galati, Università di Tor
Vergata Roma, Italy
Prof. Alessandro Galli, Sapienza
University of Rome, Italy
Prof. Anthony Ghiotto, IMS Laboratory,
Talece, France
Prof. J. Sebastián Gómez-Díaz,
UC Davis, USA
Prof. Shiban K Koul, Indian Institute of
Technology Delhi, India
Prof. Krzysztof S Kulpa, Warsaw
University of Technology, Poland
Prof. Asher Madjar, M2Microwaves LLC,
Philadelphia, USA and Tel Aviv University,
Israel
Prof. Francisco Medina, University of
Sevilla, Spain
Prof. Giuseppina Monti, University of
Salento, Italy
Prof. Dimitra Psychogiou, University
College Cork and Tyndall National
Institute, Ireland
Dr. Xianming Qing, Institute for
Infocomm Research, Singapore
Prof. Ruediger Quay, Fraunhofer
Institute Freiburg, Germany
Dr. Marco Salucci, University of Trento,
Italy
Dr. Fred Schindler, RFMD, USA
Prof. Dominique Schreurs, KU Leuven,
Belgium
Dr. Lorenzo Silvestri, University of Pavia,
Italy
Prof. Almudena Suárez, Universidad de
Cantabria, Spain
Prof. Luciano Tarricone, University of
Salento, Italy
Prof. Huei Wang, NTU, Taiwan
Prof. Hung-Wei Wu, Feng Chia
University, Taiwan
Prof. Felix Yanovsky, National Aviation
University, Ukraine
Prof. Haoshen Zhu, South China
University of Technology, China
Dr. Grigorios Zouros, National Technical
University of Athens, Greece

Scope of the journal

International Journal of Microwave and Wireless Technologies is interdisciplinary and application oriented, providing a platform for the microwave industry. Subjects covered include: applied electromagnetic field theory, components, analogue and mixed-signal circuits, systems, optical-microwave interactions, electromagnetic compatibility, industrial applications, biological effects and medical applications.

Submission of Manuscripts

All manuscripts should be submitted online at <http://mc.manuscriptcentral.com/mrf>. Please consult the instructions for authors at <http://cambridge.org/mrf>

Subscriptions

International Journal of Microwave and Wireless Technologies (ISSN 1759-0787) is published ten times a year in February, March, April, May, June, July, September, October, November and December. The subscription price (excluding VAT) of Volume 15 (2023) for institutional subscribers is £861 net (US \$1615 in the USA, Canada and Mexico). Members of the European Microwave Association receive free online access to the Journal. Single parts are £99 (US \$186 in the USA, Canada and Mexico). Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, Journals Fulfilment Dept, UPH, Shaftesbury Road, Cambridge CB2 8BS, UK; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY, 10006, USA. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan.

Advertising

For all parts of the world except USA, Canada and Mexico to Journals Advertising: ad_sales@cambridge.org
Address enquiries in the USA, Mexico and Canada only to: journals_advertising@cup.org

Copying

This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923,

USA. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. Copyright law) subject to promotional or commercial purposes. Code 0266-4674/2018. *ISI Tear Sheet Service*, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single copies of separate articles for private use only. Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

Internet Access

This journal is included in Cambridge Core and can be found at cambridge.org/mrf. For further information on other Press titles access <http://www.cambridge.org>

© Cambridge University Press and the European Microwave Association 2023
Cambridge University Press, UPH, Shaftesbury Road, Cambridge CB2 8BS, United Kingdom
1 Liberty Plaza, Floor 20, New York, NY, 10006, USA
USA 477 Williamstown Road, Port Melbourne, VIC 3207, Australia
Ruiz de Alarcón 13, 28014 Madrid, Spain
Dock House, The Waterfront, Cape Town 8001, South Africa