

Sadržaj / Table of Contents

Guest Editors' Note	1
Prof. Dr. Bratislav Milovanović	2
Fractal Geometry in Electromagnetics Applications - from Antenna to Metamaterials	3
<i>W.J. Krzysztofik</i>	
Printed Antenna Arrays with High Side Lobe Suppression: the Challenge of Design	15
<i>M. Milijić, A. Nešić, B. Milovanović</i>	
Electromagnetic Analysis of Arbitrary Antennas on Large Composite Platforms Using PO Driven MoM	21
<i>M.S. Tasić, B.M. Kolundžija</i>	
TLM Modelling of a Microstrip Circular Antenna in a Cylindrical Grid	28
<i>T. Dimitrijević, J. Joković, N. Dončov, B. Milovanović</i>	
Recent Advances and Design Challenges in Wireless Health Monitoring.....	34
<i>D.M. M.-P. Schreurs, M. Mercuri, P.J. Soh, G. A.E. Vandenbosch</i>	
Localization of Stochastic Electromagnetic Sources by using Correlation Matrix Trained MLP Neural Network	44
<i>Z. Stanković, N. Dončov, B. Milovanović, J. Russer, I. Milovanović, M. Agatonović</i>	
New Method for Detection of Precipitation Based on Artificial Neural Networks	50
<i>V. Dorđević, O. Pronić-Rančić, Z. Marinković, M. Milijić, V. Marković, U. Siart, C. Chwala, H. Kunstmann</i>	
Communication and Sensing Applications of Six-Port Technology.....	56
<i>S.O. Tatu, Ke Wu</i>	
A Bidirectional Wireless Power Transfer System for Roadway Powered Electric Vehicles.....	68
<i>J. Russer, M. Dionigi, M. Mongiardo, P. Russer</i>	
Classical Electromagnetically Induced Transparency in Metamaterials.....	76
<i>V. Milošević, B. Jakanović, R. Bojanić, B. Jelenković</i>	
Asymmetric Grounded Stub-Loaded Resonator and Its Application in Tri-Band Filter Design.....	82
<i>S. Birgermajer, N. Janković, V. Crnojević-Bengin</i>	
Synthesis and Use of Wave Digital Networks of Admittance Inverters	89
<i>B.P. Stošić, N.S. Dončov</i>	
Two-Dimensional Gradient-Index Metamaterial with Sawtooth Profile	96
<i>Z. Jakšić, M. Sarajlić, Ž. Lazić, M. Dalarsson, D. Randjelović, K. Radulović, D. Tanasković</i>	
Trends on Noise Parameters Measurement for High Frequency Devices and their Modelling	102
<i>D. Pasquet, P. Descamps, D. Lesénéchal</i>	
A Complete Microwave Characterization of GaAs HEMTs under Optical Illumination	112
<i>A. Caddemi, G. Crupi, E. Fazio, S. Patanè, G. Salvo</i>	
RF PA Linearization Using Modified Baseband Signal that Modulates Carrier Second Harmonic	119
<i>A. Atanasković, N. Maleš-Ilić, K. Blau, A. Đorić, B. Milovanović</i>	
Twenty Year Long Tradition of TELSIS Conferences	125
<i>B. Milovanović, Z. Marinković</i>	
“Aleksandar Marinčić” Award	128

Izdavač / Published by

Udruženje za mikrotalasnu tehniku, tehnologije i sisteme / Society for Microwave Theory, Technology and Systems

IEEE MTT-S Chapter of Serbia and Montenegro

Izlazi dva puta godišnje / Published twice a year

Urednik / Editor

Zlatica Marinković

Gostujući urednici / Guest Editors

Vera Marković, Nebojša Dončov

Uređivački odbor / Editorial Board

Đurađ Budimir

Westminster University, United Kingdom

Alina Caddemi

University of Messina, Italy

Cristophe Caloz

Ecole Polytechnique de Montreal, Canada

Christos Christopoulos

University of Nottingham, United Kingdom

Octavian Fratu

Politehnica University of Bucharest, Romania

Branka Jakanović

Institute of Physics, Belgrade, Serbia

Branko Kolundžija

University of Belgrade, Serbia

Vera Marković

University of Niš, Serbia

Bratislav Milovanović

University of Niš, Serbia

Aleksandar Nešić

IMTEL Communications A.D., Belgrade, Serbia

Peter Russer

Technical University Munich, Germany

Magdalena Salazar Palma

Universidad Politécnica de Madrid, Spain

Dominique Schreurs

Katholieke Universiteit Leuven, Belgium

Georgy Stoyanov

Technical University of Sofia, Bulgaria

Andre Vander Vorst

Université Catholique de Louvain, Belgium

Ke Wu

Ecole Polytechnique de Montreal, Canada

Tehnički urednik / Technical Editor

Biljana Stošić

Korice / Cover page

Aleksandar Atanasković

Štampa / Printed by NAIS PRINT Design, Niš

Tiraž / Number of printed copies 300

ISSN 14505835

UDK 621.3.049.77