

**TECHNICAL UNIVERSITY OF CLUJ-NAPOCA
FACULTY OF ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION
TECHNOLOGY**

***ACTA TECHNICA NAPOCENSIS – Electronica - telecomunicatii
(Electronics and Telecommunications) ISSN 1221 – 6542***

Local editorial committee

Radu ARSINTE, Editor in Chief, Technical University of Cluj Napoca, Romania
Nicolae CRISAN, Executive Editor, Technical University of Cluj Napoca, Romania
Cristian FARCAS, Associate Editor, Technical University of Cluj Napoca, Romania
Alin GRAMA, Associate Editor, Technical University of Cluj Napoca, Romania
Doris LUPEA CSIPKES, Associate Editor, Technical University of Cluj Napoca, Romania
Costin MIRON, Honorary Editor, Technical University of Cluj Napoca, Romania

Editorial Board

Aurel Vlaicu – Technical University of Cluj Napoca, Romania	Dorin Petreus - Technical University of Cluj Napoca, Romania
Marina Topa - Technical University of Cluj Napoca, Romania	Corneliu Rusu – Technical University of Cluj Napoca, Romania
Gilbert De Mey - University of Gent, Belgium	Alkis Hatzopoulos - University of Thessaloniki, Greece
Virgil Dobrota - Technical University of Cluj Napoca, Romania	Corneliu Burileanu – Politehnica University of Bucharest, Romania
Dan Pitica - Technical University of Cluj Napoca, Romania	Mihai Romanca – Transilvania University of Brasov, Romania
José Ramón Beltrán Blázquez - University of Zaragoza, Spain	Radu Vasiu – Politehnica University of Timisoara, Romania
Jan Turan – Technical University of Kosice, Slovakia	Eugenio Garcia Moreno - University of Palma de Mallorca, Spain
Liviu Goras – Technical University Gh. Asachi Iasi, Romania	Ioan Nafornita - Politehnica University of Timisoara, Romania
Valeriu Munteanu - Technical University Gh. Asachi Iasi, Romania	Attila Ferencz – Dayhoun Broadcast Research Company, Seoul, Korea
Michel Riveill – University of Nice, France	Tony Ward - University of York, UK
Ana Rusu - Royal Institute of Technology (KTH), Stockholm, Sweden	Cristina Morel – Ecole Supérieure d'Electronique de l'Ouest, France
Sorin Hintea - Technical University of Cluj Napoca, Romania	Eugen Lupu - Technical University of Cluj Napoca, Romania
Marcian Cirstea – Anglia Ruskin University, Cambridge, UK	Dan Lascu - Politehnica University of Timisoara, Romania

Scientific Board (*)

Valentina BALAS	Dorin PETREUS
Alexandru ISAR	Ovidiu POP
Tiberiu MURESAN	Petre POP
Ioan NAFORNITĂ	Mircea VAIDA

(*) Note – Only members active as reviewers for the current number are listed. For full list of reviewers see the Journal website: <http://users.utcluj.ro/~atn>

Publisher: Technical University of Cluj-Napoca – Romania,
Str. Baritiu 26-28, 400027 Cluj-Napoca, Romania

© Technical University of Cluj-Napoca. Romania All rights reserved. Published with technical support of Mediamira Science Publishers.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the prior written permission of the copyright owner. Open access content may be employed for personal use only indicating clearly the source.

No responsibility is assumed by the publisher or by the copyright owner for any injury and/or damage to persons and property as a matter of any use or operation of any methods, products, instructions or ideas contained herein.