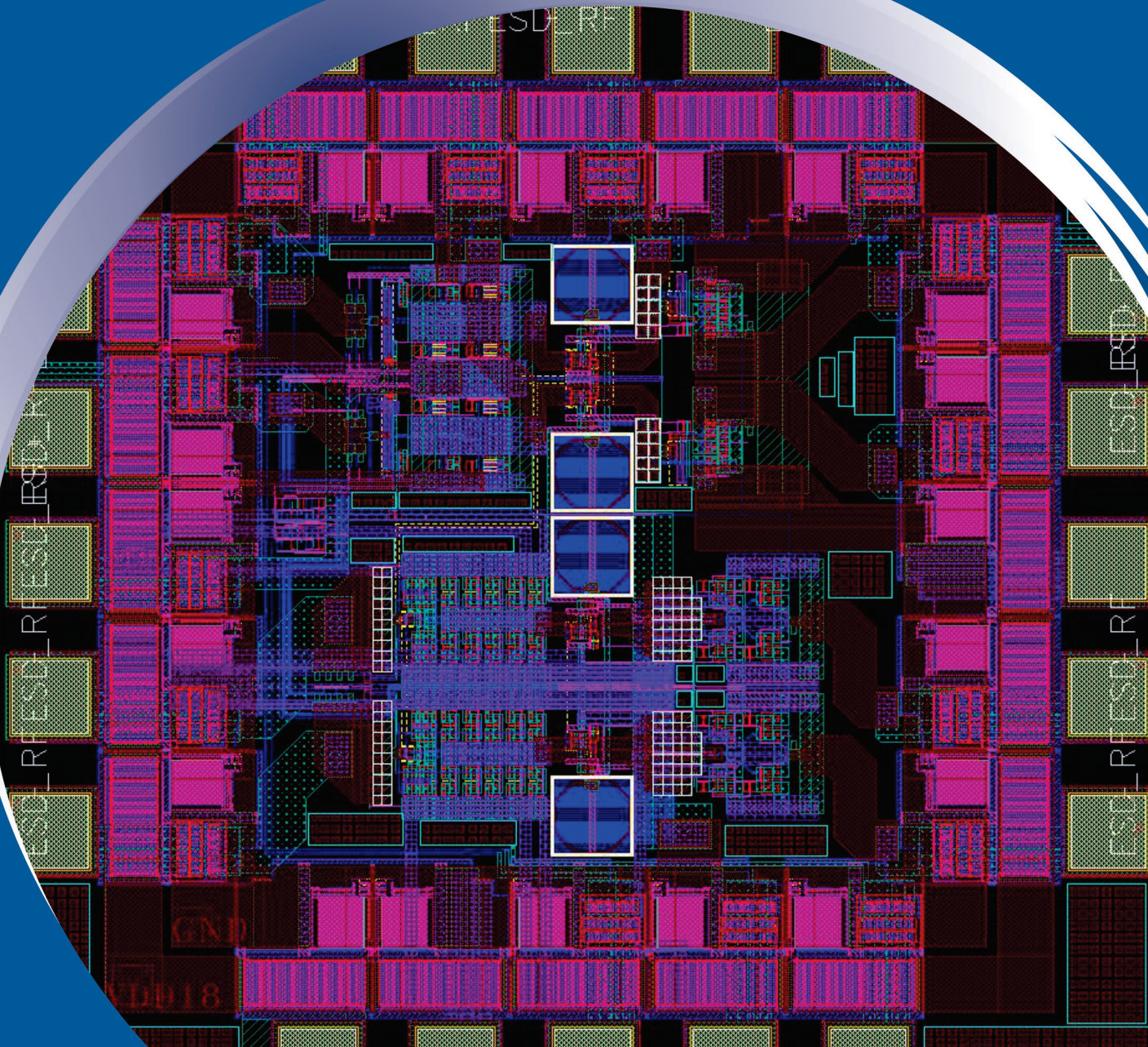


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Front page: Dual differential power amplifier IC layout (Vasjanov et al.)		Naslovnica: IC postavitev dvojnega diferencialnega močnostnega ojačevalnika (Vasjanov et al.)

Editorial | Uvodnik

Dear Reader,

This issue brings six original scientific papers. It also introduces a new category of news. PhD theses successfully defended at universities and graduate schools in Slovenia in 2015 that are related to the fields of microelectronics, electron components and materials are listed at the end of the issue. And we will repeat it in the second issue every year.

We look forward to receiving your next manuscript(s) in our on-line submission platform:

<http://ojs.midem-drustvo.si/index.php/InfMIDEM>

Enjoy reading the Issue 2/2016!

Prof. Marko Topič
Editor-in-Chief

P.S.

All papers published in *Informacije MIDE M* –Journal of Microelectronics, Electronics Components and Materials (since 1986) can be access electronically for free at <http://midem-drustvo.si/journal/home.aspx>. A search engine is provided to use it as a valuable resource for referencing previous published work and to give credit to the results achieved from other groups.

Doktorske disertacije na področju mikroelektronike, elektronskih sestavnih delov in materialov v Sloveniji v letu 2015

Doctoral theses on Microelectronics, Electronic Components and Materials in Slovenia in 2015

Univerza v Ljubljani / University of Ljubljana

Fakulteta za elektrotehniko / Faculty of Electrical Engineering

1	Avtor	Iztok Bratuž
	Author	
	Naslov	Optimizacija protokolov samodejnih brezstičnih sistemov za identifikacijo oseb in predmetov
	Title	Optimisation of protocols for automated contactless systems for person and object identification
	Mentor	izr. prof. dr. Andrej Trost
Supervisor		
2	Avtor	Jure Močnik
	Author	
	Naslov	Nizkonapetostna arhitektura za upravljanje pametnih omrežij
	Title	Low voltage architecture for smart grid management
	Mentor	prof. dr. Andrej Žemva
Supervisor		
3	Avtor	Sebastjan Šlajpah
	Author	
	Naslov	Nosljivi senzorni sistem za merjenje in ocenjevanje vstajanja
	Title	Wearable sensory system for measurement and evaluation of sit-to-stand movements
	Mentor	prof. dr. Roman Kamnik
Supervisor		
4	Avtor	Martin Sever
	Author	
	Naslov	Optimizacija hrapavosti spojev v tankoplastnih silicijevih sončnih celicah s tridimenzionalnim optičnim modeliranjem in simulacijami
	Title	Optimisation of interface textures in thin-film silicon solar cells aided by three-dimensional optical modelling and simulations
	Mentor	prof. dr. Janez Krč
Supervisor		

5	Avtor	Gašper Matič		
	Author			
	Naslov	Razvoj elektronskega sistema za upravljanje vsevrtečega brezpilotnega letala		
	Title	Development of electronic control systems for all-rotating unmanned aerial vehicle		
	Mentor	doc. dr. Marko Jankovec		
	Supervisor			
6	Avtor	Uroš Puc		
	Author			
	Naslov	Spektroskopsko teraherčno slikanje		
	Title	Spectroscopic terahertz imaging		
	Mentor	prof. dr. Anton Jeglič	Somentor	prof. dr. Gintaras Valušis
	Supervisor		Co-Supervisor	

Univerza v Mariboru / University of Maribor

Fakulteta za elektrotehniko, računalništvo in informatiko / Faculty of Electrical Engineering and Computer Science

1	Avtor	Tine Konjedic		
	Author			
	Naslov	Soft switching for improving the efficiency and power density of a single-phase converter with power factor correction		
	Title	Uporaba tehnike mehkega preklapljanja za izboljšanje učinkovitosti in povečanje gostote moči enofaznega pretvornika s korekcijo faktorja moči		
	Mentor	prof. dr. Miro Milanovič		
	Supervisor			
2	Avtor	Lucijan Korošec		
	Author			
	Naslov	Pulzno gostotno moduliran mikrorazsmernik z aktivnim razklopitvenim tokokrogom		
	Title	Pulse density modulated microinverter with active decoupling circuit		
	Mentor	prof. dr. Miro Milanovič		
	Supervisor			
3	Avtor	Lovro Belak		
	Author			
	Naslov	Strateško vzdrževanje prenosnih naprav s stališča zanesljivosti in tveganja		
	Title	Strategic maintenance of high voltage equipment from the point of reliability and risk		
	Mentor	prof. dr. Jože Pihler	Somentor	prof. dr. Josip Voršič
	Supervisor		Co-Supervisor	

*Mednarodna podiplomska šola Jožefa Stefana / Jožef Stefan**International Postgraduate School*

1	Avtor	Gregor Filipič		
	Author			
	Naslov	Plazemska sinteza kovinsko-oksidnih nanožic in njihova uporaba		
	Title	Plasma synthesis of metal-oxide nanowires and their application		
	Mentor	prof. dr. Uroš Cvelbar		
Supervisor				
2	Avtor	Andrej Kovič		
	Author			
	Naslov	Sinteza in karakterizacija nanožic in nanocevk na osnovi molibdena		
	Title	Synthesis and characterization of molybdenum based nanowires and nanotubes		
	Mentor	dr. Aleš Mrzel		
Supervisor				
3	Avtor	Raluca-Camelia Frunza		
	Author			
	Naslov	Tanke plasti dielektrikov na osnovi tantalovega oksida s sintezo iz raztopine in njihova uporaba v transparentni elektroniki		
	Title	Solution-derived dielectric tantalum-oxide-based thin films and their applications in transparent electronics		
	Mentor	prof. dr. Barbara Malič		
Supervisor				
4	Avtor	Jernej Pavlič		
	Author			
	Naslov	Optimizacija pogojev priprave debelih plasti kalijevega natrijevega niobata ter njihov elektromehanski odziv		
	Title	Optimization of the processing of potassium sodium niobate thick films and their electro-mechanical behavior		
	Mentor	doc. dr. Tadej Rojac	Somentor	prof. dr. Barbara Malič
	Supervisor		Co-Supervisor	

Bold font is used for the original title of the thesis (and language in which the thesis is written), normal font for title translation.

MIDEM 2016

52nd INTERNATIONAL CONFERENCE ON MICROELECTRONICS, DEVICES AND MATERIALS WITH THE WORKSHOP ON BIOSENSORS AND MICROFLUIDICS



Announcement and Call for Papers

September 28th – 30th, 2016
 Ankaran, Slovenia

ORGANIZER: MIDEM Society - Society for Microelectronics, Electronic Components and Materials, Ljubljana, Slovenia

CONFERENCE SPONSORS: Slovenian Research Agency, Republic of Slovenia; IMAPS, Slovenia Chapter; IEEE, Slovenia Section; Zavod TC SEMTO, Ljubljana.

GENERAL INFORMATION

The 52nd International Conference on Microelectronics, Electronic Components and Devices with the Workshop on Biosensors and Microfluidics continues a successful tradition of the annual international conferences organised by the MIDEM Society, the Society for Microelectronics, Electronic Components and Materials. The conference will be held at **Hotel Convent, Ankaran, Slovenia**, well-known resort and conference centre, from **SEPTEMBER 28th – 30th, 2016**.

Topics of interest include but are not limited to:

- Workshop focus: Biosensors and Microfluidics
- Novel monolithic and hybrid circuit processing techniques,
- New device and circuit design,
- Process and device modelling,
- Semiconductor physics,
- Sensors and actuators,
- Electromechanical devices, Microsystems and nanosystems,

- Nanoelectronics
- Optoelectronics,
- Photonics,
- Photovoltaic devices,
- New electronic materials and applications,
- Electronic materials science and technology,
- Materials characterization techniques,
- Reliability and failure analysis,
- Education in microelectronics, devices and materials.

ABSTRACT AND PAPER SUBMISSION:

Prospective authors are cordially invited to submit up to 1 page abstract before **May 1st, 2016**. Please, identify the contact author with complete mailing address, phone and fax numbers and e-mail address.

After notification of acceptance (**June 15th, 2016**), the authors are asked to prepare a full paper version of six pages maximum. Papers should be in black and white. Full paper deadline in PDF and DOC electronic format is: **August 31st, 2016**.

IMPORTANT DATES:

Abstract deadline: **May 1st, 2016** (1 page abstract or full paper)

Notification of acceptance: **June 15th, 2016**

Deadline for final version of manuscript: **August 31st, 2016**

Invited and accepted papers will be published in the conference proceedings.

Detailed and updated information about the MIDEM Conferences is available at <http://www.midem-drustvo.si/> under Conferences.



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