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mipro2018

41st International Convention on Information and Communication Technology, Electronics and Microelectronics






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MIPRO - path to knowledge and innovation

MIPRO 2018
Opening ceremony
Business Day
Panels - CRO
<div><div>■ RT1 - Uvođenje 5G mreža u RH</div><div>■ RT2 - Industrija 4.0 i obrazovanje</div><div>■ RT3 - eOkoliš - ICT u funkciji zaštite okoliša</div><div>■ RT4 - Megatrends, Promising Technologies and Raising Questions in the Industrial Field</div></div>
Conferences
<div><div>■ EE - Engineering Education</div><div>■ SSE - Software and Systems Engineering</div><div>■ MEET - Microelectronics, Electronics and Electronic Technology</div><div>■ DS-DC - Data and Life Sciences supported by Distributed Computing</div><div>■ CTI - Telecommunications & Information</div><div>■ CE - Computers in Education</div><div>■ CTS - Computers in Technical Systems</div><div>■ CIS - Intelligent Systems</div><div>■ ISS - Information Systems Security</div><div>■ miproBIS - Business Intelligence Systems</div><div>■ DE-GLGPS - Digital Economy and Government/Local Government/Public Services</div><div>■ SP - MIPRO Junior - Student Papers</div></div>
Innovative section
Tutorials - CRO
Company presentation - CRO
Exhibition

Event information

MIPRO 2012 - Jubilee 35th International Convention

MEET - Microelectronics, Electronics and Electronic Technology

Wednesday, 5/23/2012 3:00 PM - 6:30 PM, Nava 2, Hotel Admiral, Opatija
Thursday, 5/24/2012 9:00 AM - 1:00 PM, Nava 2, Hotel Admiral, Opatija
Thursday, 5/24/2012 3:00 PM - 7:00 PM, Nava 2, Hotel Admiral, Opatija
Friday, 5/25/2012 9:00 AM - 1:00 PM, Camelia 1, Grand hotel Adriatic, Opatija

Event program

Wednesday, 5/23/2012 3:00 PM - 6:30 PM,
Nava 2, Hotel Admiral, Opatija

Chair: Mile Ivanda (Ruđer Bošković Institute, Zagreb, Croatia)

Invited Paper

D. Ristic (IFN – CNR , Trento, Italy), A. Chiasera (IFN – CNR , Trento, Italy), E. Moser (University of Trento, Trento, Italy), P. Feron (ENSSAT-FOTON, Lannion, France), G. Cibiel (CNES, Toulouse , France), M. Ivanda (Institut Ruđer Bošković, Zagreb, Croatia), G. Righini (IFAC-CNR, Firenze, Italy), M. Ferrari (IFN – CNR , Trento, Italy)
Erbium Doped Silica Microspheres for Lasing Applications

Papers

1.

M. Ivanda (Institut Rudjer Boskovic, Zagreb, Croatia), M. Balarin, O. Gamulin (Sveučilište u Zagrebu, Medicinski fakultet, Zagreb, Croatia), V. Đerek (Institut Ruđer Bošković, Zagreb, Croatia), D. Ristić (Consiglio Nazionale delle Ricerche - Istituto di fotonica e nanotecnologie , Trento (TN), Italy), S. Musić, M. Ristić, K. Furić (Ruđer Bošković Institute, Zagreb, Croatia), Z. Crnjak Orel (National Institute of Chemistry, Ljubljana, Slovenia)
Porous Silicon Prepared by Electrochemical Etching of Silicon Eptaxial Layer

V. Đerek, M. Ivanda (Institut Ruđer Bošković, Zavod za fiziku materijala, Zagreb, Croatia), M. Balarin, O. Gamulin (Medicinski fakultet u Zagrebu, Katedra za fiziku i biofiziku, Zagreb, Croatia), M. Ristić, S. Musić (Institut Ruder Bošković, Zavod za kemiju materijala, Zagreb, Croatia), K. Furić (Institut Ruder Bošković, Zavod za fiziku materijala, Zagreb, Croatia), Z. Crnjak Orel (National Institute of Chemistry, Ljubljana, Slovenia)
Formation and Luminescence of P-type Porous Polycrystalline Silicon

M. Očko (Institut za Fiziku, Zagreb, Croatia), S. Žonja (Fakultet elektrotehnike i računarstva, Zagreb, Croatia), M. Ivanda (Institut Ruđer Bošković, Zagreb, Croatia)
Role of the Substrate and the Temperature of Deposition on the Properties of the TaxN Thin Films

S. Žonja (Fakultet elektrotehnike i računarstva, Zagreb, Croatia), M. Očko (Institut za fiziku, Zagreb, Croatia), M. Ivanda (Institut Ruđer Bošković, Zagreb, Croatia), T. Suligoj, P. Biljanović (Fakultet elektrotehnike i računarstva, Zagreb, Croatia)
On the Application of Boron and Phosphorus Heavily Doped LPCVD Polycrystalline Silicon Thin Films as Thermoelectric Materials

V. Mitsa, R. Holomb, G. Lovas (Uzhgorod National University, Uzhgorod, Ukraine), M. Ivanda (Rudjer Boskovic Institute, Zagreb, Croatia), G. Rudyko, E. Gule, I. Fekeshgazi (Institute Physics of Semiconductors NASU, Kiev, Ukraine)

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Instructions for Preparation of Papers.doc

MEET call for papers.pdf

News about event

Currently there are no news

Room Temperature Visible Luminescence in Wide Band Gap Chalcogenide Glasses

6.
- A. Berdinsky, I. Reshetnyak (Novosibirsk State Technical University, Novosibirsk, Russian Federation), J. Yoo (School of Advanced Materials Science, Sungkyunkwan University, Suwon, South Korea), E. Grayfer (Nikolaev Institute of Inorganic Chemistry, Siberian Branch of Russian Academy of Sciences , Novosibirsk, Russian Federation), V. Makotchenko, V. Fedorov (Nikolaev Institute of Inorganic Chemistry, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russian Federation)

Preparation and Research in Resistive-Strain Sensor Based on Transparent Conducting Graphene Sheets

7.
- V. Fedorov (Nikolaev Institute of Inorganic Chemistry, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russian Federation), I. Mirzaeva, S. Kozlova, E. Grayfer (Nikolaev Institute of Inorganic Chemistry, Siberian Branch of Russian Academy of Sciences , Novosibirsk, Russian Federation), M. Medvedev (Samsung Advanced Institute of Technology, Suwon, South Korea)

Study of Electronic Structures of MoX2 (X = S, Se, Te): Arguments for Interactions of Molybdenum Atoms in Layers

8.
- M. Pejovic, N. Nesic, M. Pejovic (University of Nis, Faculty of Electronic Engineering, Nis, Serbia)
- Investigation of Memory Effect by Measurement of Time Delay of Electrical Breakdown in Commercial Gas-filled Surge Arresters


9.
- M. Pejovic, M. Pejovic, N. Nesic (University of Nis, Faculty of Electronic Engineering, Nis, Serbia)
- RADFETs as a Sensor and Dosimeter of Gamma-Ray Irradiation


Thursday, 5/24/2012 9:00 AM - 1:00 PM, Nava 2, Hotel Admiral, Opatija


Chair: Željko Butković (Faculty of Electrical Engineering and Computing, Zagreb, Croatia)

Papers

1.
- T. Knežević, T. Suligoj (FER, Zagreb, Croatia), A. Šakić, L. Nanver (ECTM-DIMES - TU Delft, Delft, Netherlands)
- Modelling of Electrical Characteristics of Ultrashallow Pure Amorphous Boron p+n Junctions
2.
- V. Tudić, L. Majdandžić, J. Groš (Karlovac University of Applied Sciences, Karlovac, Croatia)
- Model Optimization of Nanocrystalline Si:H Thin Film Solar Cells
3.
- D. Babic, Q. Diduck (Group4 Labs, Inc., Fremont, United States), J. Smart (Group4 Labs, Inc., New York, United States), D. Francis, F. Faili, F. Ejeckam (Group4 Labs, Inc., Fremont, United States)
- Measurement of Thermal Boundary Resistance on AlGaIn/GaN HEMTs Using Liquid Crystal Thermography
4.
- J. Kundrata, A. Barić (UNIZG - FER, Zagreb, Croatia)
- Design of a Planar Inductor for DC-DC Converter on Flexible Foil Applications
5.
- M. Jenko (Faculty of mechanical engineering, University of Ljubljana, Ljubljana, Slovenia)
- Development of an Analog Simulator for the Transient Analysis of Electric Circuits, with the Aim of Teaching Circuit Phenomena by Simulation of Equations
6.
- F. Pepe, A. Bonfanti, A. Lacaita (Politecnico di Milano, Milano, Italy)
- A Fast and Accurate Simulation Method of Impulse Sensitivity Function in Oscillators
7.
- V. Čeperić, A. Barić (Faculty of Electrical Engineering and Computing, Zagreb, Croatia)
- A Brief Overview of the Black-Box Behavioural Modelling of Electronic Circuits for Transient Simulations
8.
- A. Broznić, R. Blečić, A. Barić (Fakultet elektrotehnike i računarstva, Zagreb, Croatia)
- A 2.5-GHz GaN Power Amplifier Design and Modeling by Circuit-Electromagnetic Co-Simulation
9.
- C. Popa (Faculty of Electronics, Telecommunications and Information Technology, Bucharest, Romania)
- Pseudo-Exponential Computational Circuit With Improved Accuracy and Frequency Response
10.
- B. Mrković (Tehnoalarm d.o.o., Zagreb, Croatia), M. Ašenbrener (Sveučilište u Rijeci, Rijeka, Croatia)
- The Simple CMOS Negative Capacitance with Improved Frequency Response
11.
- J. Žilak, M. Koričić, T. Suligoj (FER, Zagreb, Croatia)
- Impact of Bipolar Transistor Parameters on the Characteristics of the Double-Balanced Mixer
12.
- D. Bundalo (Faculty of Philosophy, Banja Luka, Bosnia and

Herzegovina), Z. Bundalo, F. Softic (Faculty of Electrical Engineering, Banja Luka, Bosnia and Herzegovina), M. Kostadinovic (Faculty of Traffic and Transportation, Doboj , Bosnia and Herzegovina), D. Pasalic (Telecom of Srpska, Banja Luka, Bosnia and Herzegovina)
Logic Circuits with High-Impedance Output State for Interconnection of Ternary and Binary CMOS Digital Circuits and Systems 


13.
- D. Vinko, T. Švedek (ELEKTROTEHNIČKI FAKULTET OSIJEK, OSIJEK, Croatia), A. Barić (Fakultet elektrotehnike i računarstva, Zagreb, Croatia)
Limitations of the CVSL Driver as Voltage Level Booster for Switching Capacitors in High-Gain Charge Pumps 

14.
- J. Podržaj (IskraLAB d.o.o., Šempeter pri Gorici, Slovenia), A. Sešek, J. Trontelj (Faculty of Electrical Engineering, Ljubljana, Slovenia)
Intelligent Power MOSFET Driver ASIC 












**Thursday, 5/24/2012 3:00 PM - 7:00 PM,
Nava 2, Hotel Admiral, Opatija**

Chair: Dubravko Babić (Faculty of Electrical Engineering and Computing, Zagreb, Croatia)

Invited Paper

B. Malnar (Intel GmbH, Braunschweig, Germany)
Synthesis Flow for Designing a High Performance Microprocessor 

Papers

1.
- D. Kirasić, D. Basch (Fakultet elektrotehnike i računarstva, Zagreb, Croatia)
Reconfigurable Processor Architectures: Varieties and Representations 
2.
- V. Dogan, M. Brkić (Faculty of Technical Sciences, Novi Sad, Serbia), N. Vukoje (Novilog, Novi Sad, Serbia), G. Mančić (Hotwell Ges.m.b.H , Klingenbach, Austria), M. Živanov (Faculty of Technical Sciences, Novi Sad, Serbia)
A Novel Solution for Realisation of Data Transfer in Borehole Measurement Systems 
3.
- M. Glavinić Pecotić (Siemens d.d., Zagreb, Croatia), G. Molnar, M. Vučić (University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia)
Design of CIC Compensators With SPT Coefficients Based on Interval Analysis 
4.
- I. Mrčela, V. Šunde, Z. Benčić (Fakultet elektrotehnike i računarstva, Zagreb, Croatia)
Method for Selection of Switches for Power Electronic Converters 
5.
- T. Čihak (KONČAR Institut za elektrotehniku, Zagreb, Croatia), Ž. Jakopović (Fakultet elektrotehnike i računarstva, Zagreb, Croatia)
Simple Control System for Power Converter Connecting Electrochemical Dual-Layer Capacitors to DC Link 
6.
- L. Olvitz, D. Vinko, T. Švedek (ELEKTROTEHNIČKI FAKULTET OSIJEK, OSIJEK, Croatia)
Wireless Power Transfer for Mobile Phone Charging Device 
7.
- M. Brkić, M. Lukić, J. Bajić, B. Dakić, M. Vukadinović (Faculty of Technical Sciences, Novi Sad, Serbia)
Hardware Realization of Autonomous Robot Localization System 
8.
- H. Lee (E2S Company Ltd., Seoul, South Korea), H. Ryu (Korea Electric Power Research Institute, Daejeon, South Korea), J. Kwon (University of Seoul, Seoul, South Korea), G. Park, I. Kim (Korea Gas Safety Corporation, Siheung, South Korea), H. Kim (University of Seoul, Seoul, South Korea)
Development of Cost-Effective Redundant Digital Excitation Control 
9.
- J. Dong, W. Gaberl (institute of Electrodynamics, Microwave and Circuit Engineering,Vienna University of Technology, Vienna, Austria), K. Schneider-Hornstein, H. Zimmermann (institute of Electrodynamics, Microwave and Circuit Engineering,Vienna University of Technology, Vienna, Austria)
A Fully Integrated Multicolor Photoreceiver 
10.
- J. Bajić, B. Dakić, D. Stupar, M. Slankamenac, M. Živanov (Faculty of Tehnical Sciences, Novi Sad, Serbia)
The Frequency-Modulated Reflective Color Sensor 
11.
- J. Bajić, D. Stupar, J. Tomić, M. Slankamenac, A. Joža, M. Živanov (Faculty of Tehnical Sciences, Novi Sad, Serbia)
Implementation of the Optical Beam Profiler System Using LabVIEW Software Package and Low-Cost Web Camera 

**Friday, 5/25/2012 9:00 AM - 1:00 PM,
Camelia 1, Grand hotel Adriatic, Opatija**

Chair: Davor Vinko (Faculty of Electrical Engineering, Osijek,

Croatia)

Papers

1.

R. Resmi, M. R. Baiju (College of Engineering,Trivandrum, Thiruvananthapuram, India)

Performance Analysis of a Tunable Piezoelectric Actuator Based MEMS Resonator
2.

S. Preradovic (Nitero Pty Ltd, Melbourne, Australia), A. Menicanin (Institute for Multidisciplinary Research, Belgrade, Serbia)

Chipless Wireless Sensor Node
3.

Ž. Mihajlović, V. Milosavljević, N. Maoduš, V. Rajs, M. Slankamenac, M. Živanov (Fakulty of Technical Sciences, Novi Sad, Serbia)

System for Monitoring Concentration of NO2 and CO Gasses on Landfill Sites
4.

G. Park, Y. Kim, I. Kim (Korea Gas Safety Corporation, Siheung-si, South Korea), H. Kim (University of Seoul, Seoul, South Korea)

A Positive Study on Effective Gas Safety Management using Wireless Sensor Network
5.

Ľ. Ovseník, J. Turán, M. Tatarko (Department of Electronics and Multimedia Communications, Faculty of Electrical Engineering and Infor, Košice, Slovakia)

Availability and Reliability of FSO links Estimation from Measured Fog Parameters
6.

A. Badnjevic, E. Beganovic (New Technology Ltd, Sarajevo, Bosnia and Herzegovina), G. Šehić (New Technology Ltd, Tuzla, Bosnia and Herzegovina)

Disadvantages of Methods for Power Indication During Treadmill Exercise for Ergospirometry Test
7.

M. Jordanic, R. Magjarevic (Faculty of Electrical Engineering and Computing, Zagreb, Croatia)

Estimation of Muscle Fatigue During Dynamic Contractions Based on Surface Electromyography and Accelerometry
8.

M. Cifrek (FAKULTET ELEKTROTEHNIKE I RAČUNARSTVA, ZAGREB, Croatia), S. Peharec (Poliklinika za fizikalnu medicinu i rehabilitaciju "Peharec", Pula, Croatia), H. Džapo, T. Pribanić (FAKULTET ELEKTROTEHNIKE I RAČUNARSTVA, ZAGREB, Croatia), S. Mrvoš (RIZ-Odašiljači d.d., ZAGREB, Croatia)

Biomechanical Scale for Dynamic Human Body Posture Analysis
9.

B. Somek (FER, Zagreb, Croatia), J. Ostojić (Ministarstvo socijalne politike i mladih, Zagreb, Croatia), M. Krhen (FER, Zagreb, Croatia)

High Quality Hearing Aids
10.

D. Šoštarić, D. Vinko, T. Švedek (ELEKTROTEHNIČKI FAKULTET OSIJEK, OSIJEK, Croatia)

USB RF Front-End of the DRM Receiver Under LabView API Environment
11.

A. Trost, A. Žemva (FE, University of Ljubljana, Ljubljana, Slovenia)

Verification Structures for Design of Video Processing Circuits
12.

D. Sekulić, M. Živanov (Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia)

Computational Study on Soliton–like Pulses in the Nonlinear RLC Transmission Line
13.

A. Menicanin (Institute for Multidisciplinary Research, University of Belgrade, Belgrade, Serbia), L. Zivanov, M. Damnjanovic, A. Maric, N. Samardzic (Faculty of Technical Sciences, University of Novi Sad, Novi Sad, Serbia)

Ink-jet Printed CPW Inductors in Flexible Technology
14.

J. Bajić, V. Milosavljević, V. Rajs, M. Slankamenac, M. Živanov (Faculty of Tehnical Science, Novi Sad, Serbia)

Universal Wireless Communication Detector (UD-100) - Preventing of High-Tech Cheating Methods
15.

M. Škiljo, Z. Blažević (Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Spli, Split, Croatia)

Investigation of Electrically Small Monofilar Spherical Helical Antenna Used for Mid-Range Wireless Power Transfer

Basic information:

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Registration / Fees:

REGISTRATION / FEES	Price in EUR	
	Before May 7, 2012	After May 7, 2012
Members of MIPRO and IEEE	180	200
Students (undergraduate), primary and secondary school teachers	100	110
Others	200	220

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Location:

Opatija, often called the Nice of the Adriatic, is one of the most popular tourist resorts in Croatia and a place with the longest tourist tradition on the eastern part of Adriatic coast. Opatija is so attractive that at the end of the 19th and beginning of the 20th centuries it was visited by the most prominent personalities: Giacomo Puccini, Pietro Mascagni, A. P. Čehov, James Joyce, Isidora Duncan, Beniamino Gigli, Primo Carnera, Emperor Franz Joseph, German Emperor Wilhelm II, Swedish Royal Couple Oscar and Sophia, King George of Greece.

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For more details please look at www.opatija.hr/ and www.opatija-tourism.hr/.

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