

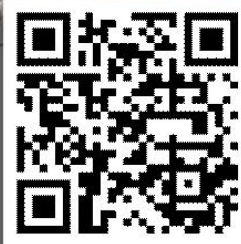


# MECO 2014

3<sup>rd</sup> Mediterranean Conference on Embedded Computing  
ECYPS'2014 - Embedded and Cyber-Physical Systems Workshop

- ~ Over 80 papers
- ~ More than 200 authors
- ~ Scientists from 35 countries
- ~ Distinguished keynote speakers
- ~ Dissemination of EU projects
- ~ Outstanding young researchers
- ~ IEEE supported
- ~ EUROMICRO supported

Programme



• 15-19 June 2014 • Budva • Montenegro •  
• Hotel Slonenska Plaža •

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MECO 2013, ECYPS'2014

Preliminary Programme

[www.embeddedcomputing.me](http://www.embeddedcomputing.me)

## **DAY 1: Sunday, June 15<sup>th</sup>**

### **Arrivals**

**17:00: Registration, remitting, introduction (MECO Desk, Reception of Hotel Slovenska Plaza)**

## DAY 2: Monday, June 16<sup>th</sup>

### 3<sup>rd</sup> Mediterranean Conference on Embedded Computing- MECO-2014

**08:00: Registration (MECO Desk, Reception of Hotel Slovenska Plaza)**

**09:00: Welcome address, Room A**

Chairs: Lech Jozwiak and Radovan Stojanovic

**09:15 Keynote I, Room A,** Chair: Lech Jozwiak

Majid	Sarrafzadeh	UCLA Computer Science & Electrical Engineering	United States
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**Life Saving Embedded Systems**

**10:00 Keynote II, Room A,** Chair: Lech Jozwiak

Dražen	Jurišić	FER – University of Zagreb	Croatia
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**Systems for analog and mixed signal processing in integrated technology based on network theory**

**10:45: Coffee Break , Restoran Pjaca**

**11:15 Session I, Room A,** Chair Ljerka Beus-Dukic

Erkan	Diken	Eindhoven University of Technology	Netherlands
Roel	Jordans	Eindhoven University of Technology	Netherlands
Lech	Józwiak	Eindhoven University of Technology	Netherlands
Henk	Corporaal	Eindhoven University of Technology	Netherlands

**Construction and Exploitation of VLIW ASIPs with Multiple Vector-Widths**

Roel	Jordans	Eindhoven University of Technology	Netherlands
Lech	Józwiak	Eindhoven University of Technology	Netherlands
Henk	Corporaal	Eindhoven University of Technology	Netherlands

**Instruction-set Architecture Exploration of VLIW ASIPs Using a Genetic Algorithm**

Marcin	Bajer	ABB Corporate Research Center	Poland
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**Embedded Software Development in Research Projects: Requirements, Design and Implementation**

Damjan	Temelkovski	University of Westminster	United Kingdom
Ljerka	Beus-Dukic	University of Westminster	United Kingdom

**Specifying Timing Requirements in Domain Specific Languages for Modeling**

Alex	Schönberger	Integrated Electronic Systems Lab TU Darmstadt	Germany
Klaus	Hofmann	Integrated Electronic Systems Lab TU Darmstadt	Germany

### **3DMemory - Memory Usage Analysis Tool**

#### **11:15 Session II, Room B, Chair Betim Cico**

Maxim	Akinin	Department of Space Technology – RSREU	Russian Federation
Alexandr	Taganov	Department of Space Technology – RSREU	Russian Federation
Michael	Nikiforov	Department of Electronic Computers – RSREU	Russian Federation

### **Automated Combining Remote Sensing Data and Digital Maps, Based on Non-linear Cellular Neural Network and Boltzmann's Restricted Stochastic Machine**

Aycan	Turan	Management Information Systems Department Bogazici University	Turkey
Asli	Sencer	Management Information Systems Department Bogazici University	Turkey
Bilgin	Metin	Management Information Systems Department Bogazici University	Turkey

### **Hardware Failure and Cost Analysis of Information Technology Products**

Neki	Frasheri	Polytechnic University of Tirana	Albania
Betim	Cico	CST Faculty South East European University	Macedonia

### **Error Reduction in Parallel Gravity Inversion**

Vladimir	Ruchkin	Ryazan State University	Russian Federation
Alexandr	Kolesenkov	Ryazan State Radio Engineering University	Russian Federation
Boris	Kostrov	Ryazan State Radio Engineering University	Russian Federation
Ekaterina	Ruchkina	Ryazan State Radio Engineering University	Russian Federation

### **Anthropogenic Situation Express Monitoring on the Base of The Fuzzy Neural Networks**

Vladimir	Vityazev	Ryazan State Radio Engineering University	Russian Federation
Evgeny	Likhobabin	Ryazan State Radio Engineering University	Russian Federation
Elena	Ustinova	Ryazan State Radio Engineering University	Russian Federation

### **Min-Sum Algorithm-Structure Based Decoding Algorithms for LDPC Codes**

#### **13:00-16:30 Lunch and Break**

#### **16:30 Session III, Room A, Chair Roberto Giorgi**

Giancarlo	Raiconi	Dipartimento di Informatica-Università degli Studi di Salerno	Italy
Mario	Vigliar	Dipartimento di Informatica-Università degli Studi di Salerno	Italy
Luca	Puglia	Dipartimento di Informatica-Università degli Studi di Salerno	Italy
Michele	Fratello	Dipartimento di Informatica-Università degli Studi di Salerno	Italy

### **SASCr2: Enhanced Hardware String alignment Coprocessor for Stereo Correspondence**

Iban	Ayestaran	Embedded Systems Group - IK4-Ikerlan Research Center	Spain
Carlos F.	Nicolas	Embedded Systems Group - IK4-Ikerlan Research Center	Spain
Jon	Perez	Embedded Systems Group - IK4-Ikerlan Research Center	Spain
Peter	Puschner	Institute für Technische Informatik - Technische Universität Wien	Austria

### **Modeling Logical Execution Time Based Safety-Critical Embedded Systems in SystemC**

Paolo	Meloni	DIEE - University of Cagliari	Italy
Giuseppe	Tuveri	DIEE - University of Cagliari	Italy
Igor	Loi	DEI - University of Bologna	Italy
Francesco	Conti	DEI - University of Bologna	Italy
Luigi	Raffo	DIEE - University of Cagliari	Italy

### **Online Process Transformation for Polyhedral Process Networks in Shared-Memory MPSoCs**

Arkady	Kluhev	Computer Science Department ITMO University	Russian Federation
Alexey	Platunov	Computer Science Department ITMO University	Russian Federation
Aleksandr	Penskoj	Research Department LMT Ltd.	Russian Federation

### **HLD - methodology in Embedded Systems Design with a Multilevel Reconfiguration**

Alberto	Scionti	University of Siena	Italy
Stamatis	Kavvadias	Technological Educational Institute of Crete	Greece
Roberto	Giorgi	University of Siena	Italy

### **Dynamic Power Reduction in Self-Adaptive Embedded Systems through Benchmarks Analysis**

#### **16:30 Session IV, Room B, Chair Elena Guk**

Shkumbin	Fida	CST Faculty South East European University	Macedonia
Betim	Cico	CST Faculty South East European University	Macedonia
Agon	Memeti	CST Faculty South East European University	Macedonia

### **Resource Sharing Platform Architecture - Service Oriented Design Lab Environment**

Marika	Apostolova-Trpkovska	CST Faculty South East European University	Macedonia
Betim	Cico	CST Faculty South East European University	Macedonia
Ivan	Chorbev	Faculty of Computer Science and Engineering Ss. Cyril and Methodius University	Macedonia

### **Application of Social Media in e-Health**

Boris	Podlaskin	Institute of the Russian Academy of Sciences	Russian Federation
Elena	Guk	Institute of the Russian Academy of Sciences	Russian Federation
Alexander	Sukharev	Institute of the Russian Academy of Sciences	Russian Federation

### **Registration technique for detection of optical signal position under intense background illumination**

Svetlana	Elesina	Ryazan State Radio Engineering University	Russian Federation
Olga	Lomteva	Ryazan State Radio Engineering University	Russian Federation

### **Increase of Image Combination Performance in Combined Vision Systems Using Genetic Algorithm**

Miroslav	Hagara	Slovak University of Technology	Slovakia
Oldrich	Ondracek	Slovak University of Technology	Slovakia

### **Comparison of Methods for Edge Detection with Sub pixel Accuracy in 1-D Images**

**20:30**

**Official Ceremony**

**Gala Dinner\*\***

**Central restaurant**

\*\* Gala dinner is included in conference pack of registered persons. Price for associated person is 20EUR. Ask on MECO desk.

## **DAY 3: Tuesday, June 17<sup>th</sup>**

### **08:30 Keynote III, Room A, Chair Radovan Stojanovic**

Natasa	Nešković	ETF – University of Belgrade	Serbia
Aleksandar	Nešković		
Mladen	Koprivica		
Đorđe	Paunović		

### **Electromagnetic Radiation in the Vicinity of GSM/UMTS base station**

### **09:00 Session V, Room A, Chair Dražen Jurišić**

Luka	Šesnić	FER – University of Zagreb	Croatia
Budimir	Lutovac	ETF – University of Montenegro	Montenegro
Dražen	Jurišić	FER – University of Zagreb	Croatia

### **Elliptic Biquadratic Sections Using Second Generation Current Conveyors (CCIIs)**

Sergey	Vityazev	Ryazan State Radio Engineering University	Russian Federation
Aleksei	Kharin	Ryazan State Radio Engineering University	Russian Federation
Aleksander	Kalinkin	Ryazan State Radio Engineering University	Russian Federation

### **Parallel Form of FIR Filter for Implementation on Multicore DSP**

Milan	Stork	University of West Bohemia	Czech Republic
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### **Voltage Controlled Oscillators**

Yuri	Bekhtin	Ryazan State Radio Engineering University	Russian Federation
Victor	Gurov	Ryazan State Radio Engineering University	Russian Federation
Maria	Guryeva	Ryazan State Radio Engineering University	Russian Federation

### **Algorithmic Supply of IR Sensors with FPN using Texture Homogeneity Levels**

Slavica	Perovich	University of Montenegro	Montenegro
Martin	Ćalasan	University of Montenegro	Montenegro
Rada	Dragović Ivanović	University of Montenegro	Montenegro

### **Concerning Current STFT Estimations to the RC Diode Circuit**

## ECYPS 2nd EUROMICRO/IEEE Workshop on Embedded and Cyber-Physical Systems-ECYPS'2014

09:00, Room B, Chair Paris Kitsos

Teodora	Sanislav	Technical University of Cluj-Napoca	Romania
George	Mois	Technical University of Cluj-Napoca	Romania
Silviu	Folea	Technical University of Cluj-Napoca	Romania
Liviu	Miclea	Technical University of Cluj-Napoca	Romania
Giulio	Gambardella	Dipartimento di Automatica e Informatica, Politecnico di Torino	Italy
Paolo	Prinetto	Dipartimento di Automatica e Informatica, Politecnico di Torino	Italy

### A Cloud-based Cyber-Physical System for Environmental Monitoring

Victor	Fernandez	University of Cantabria	Spain
Elier	Wilpert	AlphaSIP, S.L.	Spain
Henrique	Isidoro	AlphaSIP, S.L.	Spain
Cédric	Ben-Aoun	UPMC, LIP6,	France
François	Pêcheux	UPMC, LIP6,	France

### SystemC-MDVP Modelling of Pressure Driven Microfluidic Systems

Christina K.	Houben	Chair of Computer Engineering, Fernuniversität in Hagen	Germany
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### An Energy-Aware Dynamic Scheduling Algorithm for Hard Real-Time Systems

Paris	Kitsos	Technological Educational Institute of Western Greece and Industrial Systems Institute/RC "Athena"	Greece
Artemios G.	Voyiatzis	Industrial Systems Institute/RC "Athena" PSP building, Stadiou Str., Platani	Greece

### Towards a Hardware Trojan Detection Methodology

Aleksei	Lupachev	National Research University «MPEI»	Russian Federation
I.	Sapelkin	National Research University «MPEI»	Russian Federation
Y. Tang	Taik	National Research University «MPEI»	Russian Federation

### Application of Forcing for Sensors Dynamic Characteristics Correction

Ashray	Doshi	The University of Queensland, School of ITEE	Australia
Adam	Postula	The University of Queensland, School of ITEE	Australia
Surya	Singh	The University of Queensland, School of ITEE	Australia
Andrew	Fletcher	The University of Queensland, Centre for Mined Land Rehabilitation	Australia

### Development of Control Platform for micro-UAVs with Integrated Motion Planning in Wind

10:30: Coffee Break , Restaurant Pjaca



## 11:00 Session VII, Room A, Chair Stevan Milinković

Stevan	Milinković	Union University, School of Computing	Serbia
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**Pure Software-based Speech Recognition for OS-less Embedded Systems**

Alexey	Ivutin	Department of Computer Technology, Tula State University	Russian Federation
Eugene	Larkin	Department of Robotics and Industry Mechanization, Tula State University	Russian Federation

### Estimation of Latency in Embedded Real-Time Systems

Alexey	Platunov	Computer Science Department ITMO University	Russian Federation
Aleksandr	Penskoj	Computer Science Department ITMO University	Russian Federation
Arkady	Kluchev	Research Department LMT Ltd.	Russian Federation

### The Architectural Specification of Embedded Systems

Dmitry	Raszhivin	State University of Aerospace Instrumentation	Russian Federation
Yuriy	Sheynin	State University of Aerospace Instrumentation	Russian Federation

### Real-Time SpaceWire Services in Networked Embedded Systems

Roman	Bazylevych	Lviv Polytechnic National University	Ukraine
Lubov	Bazylevych	Institute of Applied Problems of Mechanics and Mathematics NASU	Ukraine
Sergii	Byelyayev	Lviv Polytechnic National University	Ukraine
Alexandr	Kolesenkov	Ryazan State Radio Engineering University	Russian Federation
Boris	Kostrov	Ryazan State Radio Engineering University	Russian Federation
Vladimir	Ruchkin	Ryazan State University	Russian Federation
Ekaterina	Ruchkina	Ryazan State Radio Engineering University	Russian Federation

### The Analyses and Optimization Algorithms of the Electronic Circuits Design

## 11:00 Session VIII, Room B, Chair Irena Orović

Radomir	Mihajlović	University of Montenegro	Montenegro
Marijana	Šćekić	University of Montenegro	Montenegro
Anđela	Draganić	University of Montenegro	Montenegro
Srđan	Stanković	University of Montenegro	Montenegro

### An Analysis of CS Algorithms Efficiency for Sparse Communication Signals

Marijana	Šćekić	University of Montenegro	Montenegro
Radomir	Mihajlović	University of Montenegro	Montenegro
Irena	Orović	University of Montenegro	Montenegro
Srđan	Stanković	University of Montenegro	Montenegro

### CS Performance Analysis for the Musical Signals Reconstruction

Sanja	Žuković	University of Montenegro	Montenegro
Milica	Medenica	University of Montenegro	Montenegro
Irena	Orović	University of Montenegro	Montenegro
Srđan	Stanković	University of Montenegro	Montenegro

### Synthetic Software Tool for Compressive Sensing Reconstruction

Boris	Podlaskin	Institute of the Russian Academy of Sciences	Russian Federation
Elena	Guk	Institute of the Russian Academy of Sciences	Russian Federation
Alexander	Sukharev	Institute of the Russian Academy of Sciences	Russian Federation

**Quasi-Spatial Properties of a Communication Channel Temporal Noise while using 2D Hadamard Transform**

Mikhail	Kagalenko	Ryazan State Radio Engineering University	Russian Federation
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**Variance of the Nonlinear Least Squares Estimate of the Frequency Separation of Two Complex Exponents**

**12:30-16:30 Lunch and Break**

**16:30 Session IX, Room A,** Chair Dejan Karadaglić

Andrej	Škraba	University of Maribor	Slovenia
Andrej	Kolozvari	University of Maribor	Slovenia
Davorin	Kofjac	University of Maribor	Slovenia
Radovan	Stojanović	University of Montenegro	Montenegro

**Prototype of Speech Controlled Cloud Based Wheelchair Platform for Disabled Persons**

Dejan	Popov Tapavački	RT-RK Institute of Computer-Based Systems	Serbia
Sreten	Tanacković	RT-RK Institute of Computer-Based Systems	Serbia
Nemanja	Fimić	RT-RK Institute of Computer-Based Systems	Serbia
Nikola	Špirić	RT-RK Institute of Computer-Based Systems	Serbia
Jelena	Kovačević	Faculty of Technical Science, University of Novi Sad	Serbia

**Implementation of DTCP-IP Protected Content on Android Devices**

Nemanja	Filipović	University of Montenegro	Montenegro
Radovan	Stojanović	University of Montenegro	Montenegro
Anetta	Čaplánová	The University of Economics in Bratislava	Slovakia

**Real-Time Processing and Analysis of Cardiac Signals Using Android Smartphones**

Jovan	Kovačević	University of Montenegro	Montenegro
Radovan	Stojanović	University of Montenegro	Montenegro
Dejan	Karadaglić	Glasgow Caledonian University	United Kingdom
Bogdan	Ašanin	University of Montenegro	Montenegro
Živorad	Kovačević	University of Montenegro	Montenegro
Zlatko	Bundalo	University of Banja Luka	Bosnia and Herzegovina
Ferid	Softić	University of Banja Luka	Bosnia and Herzegovina

**FPGA Low-Power Implementation of QRS Detectors**

Olga	Melnik	Ryazan State Radio Engineering University	Russian Federation
Anatoly	Mikheev	Ryazan State Radio Engineering University	Russian Federation

**Methods of Mutual Analysis of Rhythmocardiogram and Pneumatogram Signals to Evaluate of Body Adaptation Reserves**

## 16:30 Session X, Room B, Chair Bernard Tourancheau

Mališa	Vučinić	Grenoble Alps University, STMicroelectronics	France
Bernard	Tourancheau	Grenoble Alps University, CNRS Grenoble Informatics Laboratory UMR 5217	France
Franck	Rousseau	Grenoble Alps University, CNRS Grenoble Informatics Laboratory UMR 5217	France
Andrzej	Duda	Grenoble Alps University, CNRS Grenoble Informatics Laboratory UMR 5217	France
Laurent	Damon	Grenoble Alps University, CNRS Grenoble Informatics Laboratory UMR 5217	France
Roberto	Guizzetti	Grenoble Alps University, CNRS Grenoble Informatics Laboratory UMR 5217	France

### Energy Cost of Security in an Energy-Harvested IEEE 802.15.4 Wireless Sensor Network

Stojanche	Panov	Faculty of Informatics „Goce Delchev“ University	Macedonia
Saso	Koceski	Faculty of Informatics „Goce Delchev“ University	Macedonia

### Area coverage in Wireless Sensor Network by using Harmony Search algorithm

Goran	Horvat	Faculty of Electrical Engineering-J. J. Strossmayer University of Osijek	Croatia
Drago	Žagor	Faculty of Electrical Engineering-J. J. Strossmayer University of Osijek	Croatia
Davor	Vinko	Faculty of Electrical Engineering-J. J. Strossmayer University of Osijek	Croatia

### Influence of Node Deployment Parameters on QoS in Large-Scale WSN

Stojanche	Panov	Faculty of Computer Science 'Goce Delchev' University	Macedonia
Saso	Koceski	Faculty of Computer Science 'Goce Delchev' University	Macedonia

### Novel approach to Optical Character Recognition of Old Slavic letters

Aris	Lin	California State University	United States
Aleksander	Milshteyn	California State University	United States
Garth	Herman	California State University	United States
Manuel	Garcia	California State University	United States
Charles	Liu	California State University	United States
Aleksander	Milshteyn	California State University	United States
Khosrow	Rad	California State University	United States
Darrell	Guillaume	California State University	United States
Helen	Boussalis	California State University	United States

### Direction Cosine Matrix Algorithm for Virtual Reality Head-Tracking Mobile Observation System

## 20:30, Cocktail party, Restaurant Pjaca

\*Will be announced during event. Ask on MECO desk.

## **DAY 4: Wednesday, June 18<sup>th</sup>**

**09:00, PROJECT DISSEMINATIONS, Room A,** Moderator Andrej Mihailovic

- **ForeMONT, Fostering innovation based research for e-Montenegro, REGPOT, FP7**
- **GEPSUS, (SfP 983510), Geographical Information Processing for Environmental Pollution-Related Security within Urban Scale Environments, NATO Project.**

**09:00 Session XI (POSTER), Room B and Room C,** Moderator, D. Tarasov

Victoria A.	Sablina	Ryazan State Radio Engineering University	Russian Federation
Anatoly I.	Novikov	Ryazan State Radio Engineering University	Russian Federation
Michael B.	Nikiforov	Ryazan State Radio Engineering University	Russian Federation
Alexander A.	Loginov	Ryazan State Radio Engineering University	Russian Federation

### **P1A, Contour Analysis Application for Object Detection in Aerial Image Sequence**

Anatoly	Novikov	Ryazan State Radio Engineering University	Russian Federation
Aleksey	Efimov	Ryazan State Radio Engineering University	Russian Federation

### **P1B, Combining Images Using Key Point Method**

Alexey	Roenko	National Aerospace University	Ukraine
Vladimir	Lukin	National Aerospace University	Ukraine
Sergey	Abramov	National Aerospace University	Ukraine
Igor	Djurović	University of Montenegro	Montenegro

### **P2A, Automation of Analysis for Correlated Noise in Images Based on DCT Coefficient Statistics**

Alexey	Roenko	National Aerospace University	Ukraine
Vladimir	Lukin	National Aerospace University	Ukraine
Igor	Djurović	University of Montenegro	Montenegro
Mikhail	Chobanu	Moscow Power Engineering Institute	Russian Federation

### **P2B, Comparison Analysis of Myriad Estimator Calculation Algorithms**

Yevgeniy	Muratov	Ryazan State Radio Engineering University	Russian Federation
Michael	Nikiforov	Ryazan State Radio Engineering University	Russian Federation

### **P3A, Diverse images combination by pitch and roll angles**

Ivana	Ognjanović	University Mediterranean	Montenegro
Ramo	Šendelj	University Donja Gorica	Montenegro
Jelena	Ljucović	University Mediterranean	Montenegro

### **P3B, Analyses of OP4L services for personalized recommendation of learning resources**

Anetta	Čaplánová	University of Economics in Bratislava	Slovak Republic
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### **P4A, Selected Aspects of Intellectual Property Protection in Academic Sector**

Orges	Cico	University of Tirana	Albania
Zamir	Dika	CST Faculty-South East European University	Macedonia

**P4B, Performance and Load Testing of Cloud vs. Classic Server Platforms (Case Study: Social Network Application)**

Shpetim	Latifi	Computer Science Department-South East European University	Macedonia
Arjan	Durresi	Computer Science Department-South East European University	Macedonia
Betim	Cico	Computer Science Department-South East European University	Macedonia

**P5A, Emulating enterprise network environments for fast transition to Software-Defined Networking**

Alexandr	Parshin	Ryazan State Radio Engineering University	Russian Federation
Yury	Parshin	Ryazan State Radio Engineering University	Russian Federation

**P5B, Optimal detection of 2D fractal object based on model of fractal Brownian surface**

Sergey	Chelebaev	Ryazan State Radio Engineering University	Russian Federation
Yulia	Chelebaeva	Ryazan State Radio Engineering University	Russian Federation

**P6A, Two Variables Time-and-frequency Signals Parameters in a Digital Code Neural Network Converters Synthesis Procedure on the Perceptrons Basis**

Boris	Alpatov	Ryazan State Radio Engineering University	Russian Federation
Pavel	Babayan	Ryazan State Radio Engineering University	Russian Federation
Nikita	Shubin	Ryazan State Radio Engineering University	Russian Federation

**P6B, Robust Line Detection using Weighted Radon Transform**

Tatiana	Vityazeva	Ryazan State Radio Engineering University	Russian Federation
Olga	Melnik	Ryazan State Radio Engineering University	Russian Federation
Anatoliy	Mikheev	Ryazan State Radio Engineering University	Russian Federation

**P7A, Multirate Processing for the Heart Rate Variability Analysis**

**10:30: Coffee Break , Restaurant Pjaca**

**11:00 , PROJECT DISSEMINATION, Room A, Moderator Goran Devedzic**

- **ECESM, Enhancement of cyber educational system of Montenegro, TEMPUS Project.**
- **BioEMIS, Studies in bioengineering and medical informatics, TEMPUS Project.**
- **MAReD, Modernizing and harmonizing maritime education in Montenegro and Albania, TEMPUS Project.**
- **Support and Inclusion of students with disabilities at Higher Education Institutions in Montenegro - SINC@HE, TEMPUS project.**
- **Development of Sustainable Interrelations between Education, Research and Innovation at WBC Universities in Nanotechnologies and Advanced Materials where Innovation Means Business.**

**11:00 Session XII (POSTER), Room B,** Moderator D. Tarasov

Alexandr Vladimir	Borlyakov Gevorkyan	National Research University "Moscow Power Engineering University"	Russian Federation
Ilya	Yashin	National Research University "Moscow Power Engineering University"	Russian Federation

**P1A, Pulse Interferences Detection and Measurement PLD-Based Algorithm**

Kujtim Neki	Hyseni Frasheri	Polytechnic University of Tirana	Albania
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**P1B, Microcontrollers as Components of Service Oriented Architectures**

Jordan	Krlev	Technical University of Sofia	Bulgaria
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**P2A, Design of UART controller for FPGA with Simulink®**

Fang Wengui	Lu Rao	Huazhong University of Science and Technology	China
Yan	Dong	Huazhong University of Science and Technology	China

**P2B, FPGA-Based Implementation of Binary Input Compressive Sensing Decoder**

Nemanja Miloš	Fimić Subotić	RT-RK Institute of Computer-Based Systems	Serbia
Darko Nenad	Dejanović Šoškić	RT-RK Institute of Computer-Based Systems	Serbia
Goran	Miljković	RT-RK Institute of Computer-Based Systems	Serbia

**P3A, A Proposal for Secured Streaming of Premium Content in Second Screen Environment**

Dimitrija Saso	Angelkov Koceski	Faculty of Computer Science 'Goce Delchev' University	Macedonia
Natasa	Koceska	Faculty of Computer Science 'Goce Delchev' University	Macedonia

**P3B, Low-cost Dual-axis System for Solar Tracking**

Nenad Dejan	Šoškić Popov Tapavački	Faculty of Technical Sciences, University of Novi Sad	Serbia
Davor Stevan	Rapić Medić	Faculty of Technical Sciences, University of Novi Sad	Serbia
Nikola	Kuzmanović	Faculty of Technical Sciences, University of Novi Sad	Serbia

**P4A, Remote Control Android Application for Second Screen DTV Environment**

Vesna Ana	Rubežić Jovanović	University of Montenegro	Montenegro
Igor	Djurović	University of Montenegro	Montenegro

**P4B, Time-frequency Representation-based Identification of Chaos in Erbium-doped Fiber Ring Laser**

Veselin	Ivanović	University of Montenegro	Montenegro
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Srdjan	Jovanovski	University Mediterranean	Montenegro
Nevena	Radović	University of Montenegro	Montenegro
Zdravko	Uskoković	University of Montenegro	Montenegro

**P5A, Signal Adaptive Hardware Implementation of a Smart System for Time-Frequency Signal Analysis**

Predrag	Raković	University of Montenegro	Montenegro
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**P5B, Proposal of an ICT solution for monitoring of types of sports injuries in sports organisations - case study of Montenegro**

Yuri	Bekhtin	Ryazan State Radio Engineering University	Russian Federation
Damião	Malebo	Ryazan State Radio Engineering University	Russian Federation

**P6A, Combined Textural-Dependent Despeckling in SAR Images**

Hossein	Rasekh	Sadjad Institute for Higher Education	Iran
Mohsen	Sadeghi	Sadjad Institute for Higher Education	Iran
Abbas	Golmakani	Sadjad Institute for Higher Education	Iran
Maaruf	Ali	University of Ha'il, Ha'il, Kingdom of Saudi Arabia	Saudi Arabia

**P6B, Design of Stable SRAM Cells Based on Schmitt Trigger**

Savo	Tomović	University of Montenegro	Montenegro
Predrag	Stanišić	University of Montenegro	Montenegro

**P7A, Upper Bounds on the Number of Candidate Item sets in Apriori Like Algorithms**

**12:30-16:00 Lunch and Break**

**16:00 PROJECT DISSEMINATION, COMPANY AND BOOKS PRESENTATION Room A, B,**

- **ForeMONT, GEPSUS, ECESM, BioEMIS, TEMPUS Project, MArED , SINC@HE, WIMB**

**18:00 Closing Ceremony, Awards, Recognitions, Room A or Room B**

**20:30, Social life or free time\***

\*Will be announced during event. Ask on MECO desk.

**DAY 5: Thursday, June 19<sup>th</sup>**

**08:00 – 18:00 Daily Excursion, Cruising Boka Bay**

\* **Excursion is included in Conference Pack.** Accompanied person can pay separately.



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**MECO TEAM, 2014**

Pls. use Chair's telephone for urgent matters  
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