

**22. ТЕЛЕКОМУНИКАЦИОНИ ФОРУМ**  
***22<sup>nd</sup> TELECOMMUNICATIONS FORUM***

**ТЕЛФОР 2014**

***TELFOR 2014***



**ПРОГРАМ**

**PROGRAM**

**Београд, 25, 26. и 27. новембар 2014. године**

***Belgrade, 25, 26 and 27 November 2014***

**Сава центар**

***THE SAVA CENTER***

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**TIME TABLE**  
**Telecommunications Forum TELFOR 2014**

**25<sup>th</sup> November, Tuesday Morning**

9:00 Start of Registration – Registration desk, Sava Center, Main Hall

10:30 – 12:00 OPENING CEREMONY - Rooms 1 + 1a + 1b /0

12:00 – 13:00 Welcome Party – Sava Center Restaurant

**25<sup>th</sup> November, Tuesday afternoon**

Room Time	3/1	4/1	5/1	6/1	2/0	3/0
14:30-16:45	PRS 1 1.1-1.9	Commercial presentations	RC 1 3.1-3.6	SP 1 5.1-5.7	TN 1 2.1-2.7	MM 1 9.1-9.9
17:00-19:15	SS 2 FORE MONT SS2.1-SS2.7		RC 2 3.7-3.12	S 1 11.1-11.10	TN 2 2.8-2.15, 2.31	MM 2 9.10-9.18

Room Time	1/0	1a/0	1b/0	Japan salon/1		9a/0
14:30-16:45	13h Prof. Tsenov, Invited Lecture 14h NOKIA 15h VLATACOM	CS 1 4.1-4.7	STA 8 10.50-10.58	NEUREL		LEXNET TSG/SC meeting (private)
17:00-19:15		CS 2 4.8-4.14	STA 2 10.8-10.14			

**26<sup>th</sup> November, Wednesday morning**

Room Time	3/1	4/1	5/1	6/1	2/0	3/0
8:30-10:45	AEL 1 7.1-7.8	Commercial presentations	RC 3 3.13-3.17	SP 2 5.8-5.13	TN 3 2.16-2.22	LEXNET General Meeting (private)
11:00-13:15	AEL 2 7.9-7.16		RC 4 3.19-3.25	OC 2 6.1-6.8	TN 4 2.23-2.30	

Room Time	1/0	1a/0	1b/0	Japan Salon/1		9a/0
8:30-10:45	9h VIP Mobile 10h IBM 11h TELEKOM 12h IBIS Instr	CS 3 4.15-4.21	STA 3 10.15-10.21	NEUREL		IEEE Seminar
11:00-13:15		CS 4 4.22-4.27	STA 4 10.22-10.27			

## 26<sup>th</sup> November, Wednesday afternoon

Room Time	3/1	4/1	5/1	6/1		3/0
14:30-16:45	AEL 3 7.17-7.24	Commercial presentations	AEM 1 8.1-8.7	SP 3 5.14-5.21		LEXNET General Meeting (private)
17:00-19:15	AEL 4 7.25-7.31		AEM 2 8.8-8.15	SP 4 5.22-5.29		

Room Time	1/0		1b/0	Japan salon/1		
14.30-17.00	14-16h LEXNET PANEL		SAA 5 10.28-10.34	NEUREL		
17.00-19.15	16-18h Min TT&Telecom Development of Electr. Com. RS		SAA 6 10.35-10.42			

## 27<sup>th</sup> November, Thursday morning

Room Time			5/1	6/1		3/0
8:30-10:45		10h New books	SS 1 LEEMN SS.1-SS.4	SP 5 5.30-5.37		LEXNET General Meeting (private)
11:00-13:15			AEM 3 8.16-8.23			

Room Time			1b/0	Japan salon/1		
8:30-10:45			SAA 7 10.43-10.49	10h New books & Anniversaries		
11:00-13.15			SAA 1 10.1-10.7	11h Project Managers		

(Please see detailed programs.)

Section SS1	Low EMF Exposure Mobile Networks (LEEMN)	Room 5/1
Section SS2	FORE MONT - Future Internet Technologies for e-Society	Room 3/1
Section 1	Policy, Regulatory Aspects and Services in Com.	Room 3/1
Section 2	Telecommunications Networks	Room 2/0
Section 3	Radio Communications	Room 5/1
Section 4	Communications Systems	Room 1a/0
Section 5	Signal Processing	Room 6/1
Section 6	Optical Communications	Room 6/1
Section 7	Applied Electronics	Room 3/1
Section 8	Applied Electromagnetics	Room 5/1
Section 9	Multimedia	Room 3/0
Section 10	Software Tools and Applications	Room 1b/0
Section 11	Student Section	Room 6/1
NEUREL		Japan Salon /1

- Room 1/0 – Special Sections, international and domestic companies and institutions presentations
- Sava Center Main Hall – Exhibitions (see the detailed program)
- Room 9/0 – Public Relation Room, Meetings

## САТНИЦА Телекомуникациони форум ТЕЛФОР 2014

### 25 новембар, уторак пре подне

9:00 Почетак регистрације учесника - егистрациони пулт, хол Сава центра

10:30 – 12:00 **СВЕЧАНО ОТВАРАЊЕ - Сале 1 + 1а + 1б /0**

12:00 – 13:00 **Коктел добродошлице, Ресторан Сава центра**

### 25 новембар, уторак после подне

Сала Време	3/1	4/1	5/1	6/1	2/0	3/0
14:30-16:45	ПРУ 1 1.1-1.9	Комерцијалне презентације	РК 1 3.1-3.6	ОС 1 5.1-5.7	ТМ 1 2.1-2.7	ММ 1 9.1-9.9
17:00-19:15	СС2 FORE MONT SS2.1-SS2.7		РК 2 3.7-3.12	С 1 11.1-11.10	ТМ 2 2.8-2.15, 2.31	ММ 2 9.10-9.18

Сала Време	1/0	1а/0	1б/0	Јапански салон/1	9а/0
14:30-16:45	13ч Проф. Tsenov, предавање по позиву, 14ч NOKIA, 15ч Vlatacom	СПС 1 4.1-4.7	САА 8 10.50-10.58	NEUREL	LEXNET TSG/SC састанак (приватна сесија)
17:00-19:15		СПС 2 4,8-4.14	САА 2 10.8-10.14		

### 26. новембар, среда пре подне

Сала Време	3/1	4/1	5/1	6/1	2/0	3/0
8:30-10:45	ПЕЛ 1 7.1-7.8	Комерцијалне презентације	РК 3 3.13-3.17	ОС 2 5.8-5.13	ТМ 3 2.16-2.22	LEXNET (приватна сесија)
11:00-13:15	ПЕЛ 2 7.9-7.16		РК 4 3.19-3.25	ОТ 1 6.1-6.8	ТМ 4 2.23-2.30	

Сала Време	1/0	1а/0	1б/0	Јапански салон/1	9а/0
8:30-10:45	9ч VIP Mobile 10ч IBM 11ч ТЕЛЕКОМ 12ч IBIS Instr	СПС 3 4.15-4.21	САА 3 10.15-10.21	NEUREL	IEEE Семинар
11:00-13:15		СПС 4 4.22-4.27	САА 4 10.22-10.27		

## 26. новембар, среда после подне

Сала Време	3/1	4/1	5/1	6/1		3/0
14:30-16:45	ПЕЛ 3 7.17-7.24	Комерцијалне презентације	ПЕМ 1 8.1-8.7	ОС 3 5.14-5.21		LEXNET (приватна сесија)
17:00-19:15	ПЕЛ 4 7.25--7.31		ПЕМ 2 8.8-8.15	ОС 4 5.22-5.29		

Сала Време	1/0		16/0	Јапански салон/1		
14.30-17.00	14-16ћ LEXNET ПАНЕЛ		САА 5 10.28-10.34	NEUREL		
17.00-19.15	16-18ћ Министарство ТТ&Teleком. Развој електр. комун. у Срб.		САА 6 10.35-10.42			

## 27. новембар, четвртак пре подне

Сала Време			5/1	6/1		3/0
8:30-10:45			СС1 LEEMN СС1.1-СС1.4	ОС 5 5.30-5.37		LEXNET (приватна сесија)
11:00-13:15			ПЕМ 3 8.16-8.23			

Сала Време			16/0	Јапански салон/1		
8:30-10:45			САА 7 10.43-10.49	10ч Нове књиге и јубилеји		
11:00-13.15			САА 1 10.1-10.7	11ч Пројектанти		

(Видети програме у наставку)

Секција СС1	Low EMF Exposure Mobile Networks (LEEMN)
Секција СС2	FORE MONT - Future Internet Technologies for e-Society
Секција 1	Политика, регулатива и услуге у телекомуникацијама
Секција 2	Телекомуникационе мреже
Секција 3	Радио-комуникације
Секција 4	Системи преноса сигнала
Секција 5	Обрада сигнала
Секција 6	Оптичке телекомуникације
Секција 7	Примењена електроника
Секција 8	Примењена електромагнетика
Секција 9	Мултимедија
Секција 10	Софтверски алати и апликације
Секција 11	Студентска секција
<b>НЕУРЕЛ</b>	

Сала 5/1
Сала 3/1
Сала 3/1
Сала 2/0
Сала 5/1
Сала 1а/0
Сала 6/1
Сала 6/1
Сала 3/1
Сала 5/1
Сала 3/0
Сала 16/0
Сала 6/1
Јапански салон /1

- Сала 1/0 – Посебне секције водећих домаћих и интернационалних компанија и институција
- Централни хол Сава центра – Изложбе
- Сала 9/0 – Контакт сала, састанци

# TELFOR 2014

## **СВЕЧАНО ОТВАРАЊЕ** - Opening Ceremony

Уторак 25.11.2014. године, 10:30 часова *Tuesday 25<sup>th</sup>*  
*November, 2014, 10:30 a.m.*

Сава Центар, Сале 1+1a+1b / *The Sava Center, Rooms 1+1a+1b*

## **ПЛЕНАРНА СЕДНИЦА** - Plenary Session

**Увод** – Introduction

**Поздравне речи** - Welcome Messages

**Признања** – Recognitions

**Излагања по позиву** - Invited Presentations

*Dr Joe Wiart*

*ORANGE France*

**„EMF RISC PERCEPTION AND IMPACT  
ON WIRELESS TECHNOLOGY“**

*Jesper Tuner*

*Head of Cloud Marketing, ERICSSON*

**„NETWORKED SOCIETY: THE ROLE OF CLOUD“**

**Завршне речи** – Conclusions

Председник Управног одбора – *Chairman of the Steering Committee*

Проф. др Ђорђе Пауновић – *Prof. Dr George Paunović*

**Коктел добродошлице** – Welcome Reception

Домаћин– *Host*

Друштво за телекомуникације – *Telecommunications Society*



## COMPANIES EXHIBITORS AT THE EXHIBITION

### ФИРМЕ ИЗЛАГАЧИ НА ИЗЛОЖБИ

	Firma/Organization	Lokacija/Location
	<b>IEEE SERBIA &amp; MONTENEGRO SECTION</b>	<b>Registracioni pult Registration Desk</b>
1	AKADEMSKA MISAO	A6
2	VLATACOM	F
3	FORE MONT projekt	A5
4	IRITEL a.d. BEOGRAD	A2
5	CIP NETWORKS d.o.o	A1
6	ROHDE & SCHWARZ	D1
7	BIT PROJEKT	C2
8	NI – AWR	A3
9	IMTEL KOMUNIKACIJE	A4

## COMMERCIAL PRESENTATIONS

### КОМЕРЦИЈАЛНЕ ПРЕЗЕНТАЦИЈЕ

Компанија Company	Дан Day of the week	Датум Date	Време Time	Сала Room
NI - AWR	Уторак/Tuesday	25.11.	14:00-14:45	4/1
„Design flow for RF and Microwave Circuits & Systems – from Simulation to Production“				
IRITEL a.d. BEOGRAD	Уторак/Tuesday	25.11.	15:00-15:45	4/1
„OTN / DWDM platforma OTP10G IRITEL – od 2 Mbit/s do 8 Tbit/s“				
VESIMPEX	Среда/Wednesday	26.11.	11:00-11:45	4/1
ROAMING NETWORKS	Среда/Wednesday	26.11.	12:00-12:45	4/1

**SPECIAL EVENTS PROGRAM**  
**ПРОГРАМ ПОСЕБНИХ ДОГАЂАЈА**

**MAIN HALL 1/0 / САЛА 1/0**

**INVITED PLENARY LECTURE**  
**PLENARNO PREDAVANJE PO POZIVU**

❖ *November 25, Tuesday afternoon / 25. Новембар, уторак после подне*

**13:00-13:55** NEUREL 2014

*Topic/Тема:* **“THE FOURTH ELEMENT OR THE MISSING MEMRISTOR”**

*Presenter/Предавач:* **Prof. Dr Georgi Tsenov, Technical University Sofia, Bulgaria**

**Abstract:**

In 1971 Leon Chua reasoned from symmetry arguments that there should be a fourth fundamental element, which he called a memristor (short for memory resistor). Although he showed that such an element has many interesting and valuable circuit properties, until 2008 no one has presented either a useful physical model or an example of a memristor. In the paper in Nature (2008) the team of Stan Williams show, using a simple analytical example, that memristance arises naturally in nanoscale systems in which solid-state electronic and ionic transport are coupled under an external bias voltage. These results serve as the foundation for understanding a wide range of hysteretic current–voltage behavior observed in many nanoscale electronic that involve the motion of charged atomic or molecular species, in particular certain titanium dioxide cross-point switches.

In the talk a brief overview of the memristors will be given and the potential applications will be presented. A promising application of memristor is based on its property to imitate natural nerves. Some research groups use such memristors as key components in a blueprint for an artificial brain. A memristor that is capable of learning will be considered at the end of the talk as well.

**SPECIAL SESSIONS FOR COMPANIES**  
**ПОСЕБНЕ СЕКЦИЈЕ КОМПАНИЈА**

❖ *November 25, Tuesday afternoon / 25. Новембар, уторак после подне*

**14:00-14:55** NOKIA – Nokia Solutions and Networks Serbia d.o.o.

*Topic/Тема:* **„How to move from a voice centric to a data centric approach”**

*Presenter/Предавач:* **Francesca Sartori, Nokia (in English)**

**15:00-15:55** VLATACOM d.o.o.

*Topic/Тема:* **„Uloga procesiranja signala u detekciji brodova”**

*Presenter/Предавач:* **Dr Miloš Borenović, dipl. ing., VLATACOM**

❖ *November 26, Wednesday morning / 26. Новембар, среда пре подне*

**09:00-09:55** VIP Mobile

*Topic/Тема:* **„Transforming Telcos – Network Function Virtualization”**

*Presenter/Предавач:* **Mirna Korać, VIP Mobile**

**10:00-10:55 IBM**

*Topic/Тема:* „New ways of client engagements in Telecom Industry through innovations in mobile technologies”

*Presenter/Предавач:* **Andrii Vasilchenko. IBM**

**11:00-11:55 TELEKOM SRBIJA**

*Topic/Тема:* **CLOUD**

*Presenters/Предавачи:* **Ivan Luković, TELEKOM Srbija**

**12:00-12:55 IBIS INSTRUMENTS**

*Topic/Тема:* **National Radio Monitoring based on R&S hybrid technology (AOA+TDOA) following ITU recommendations”**

*Presenter/Predavač:* **Alexander Poell, Rohde& Schwarz**

❖ *November 26, Wednesday afternoon / 26. Новембар, среда после подне*

**14:00-16 :00 LEXNET PANEL**

**„Low-EMF technologies and wireless networks management “**

*Chair person/Predsedavajući:* **Joe WIART (Orange)**

*Introductory speakers/Uvodničari:* **Joe WIART (Orange), Nadège VARSIER (Orange), Yann TOUTAIN (SATIMO), Serge BOREIS (CEA), Milos TESANOVIC (Fujitsu Laboratory Europe), Yoann CORRE (Siradel).**

**16:00-18 :00 PREZENTACIJA MINISTARSTVA TT & TELEKOMUNIKACIJA  
RAZVOJ ELEKTRONSKIH TELEKOMUNIKACIJA U REPUBLICI SRBIJI**

- Završetak postupka prelaska sa analognog na digitalno terestičko emitovanje televizijskih signala;
- Prodaja spektra kao preduslov za uvođenje 4G tehnologija;
- Razvoj širokopojasnih sistema elektronskih komunikacija;
- Model IKT strukture sistema obrazovanja.

Učesnici

**Tatjana Matić, državni sekretar MTTT**

**Milan Janković, direktor RATEL-a**

**Irina Reljin, pomoćnik ministra MTTT**

**Nebojša Vasiljević, MTTT**

**Milan Dobrijević, MTTT**

## JAPAN SALON/1 / ЈАПАНСКИ САЛОН/1

### TECHNICAL AND INFORMATION PRESENTATIONS ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ

❖ *November 27, Thursday morning / 27. Новембар, четвртак пре подне*

#### **10:00-10:55 Нове књиге и јубилеји**

*Topic/Тема: Nova knjiga:*

K.R.Rao, Zoran S.Bojkovic, Bojan M.Bakmaz, "WIRELESS MULTIMEDIA COMMUNICATION SYSTEMS: DESIGN, ANALYSIS, and IMPLEMENTATION", CRC Press, Taylor&Francis Group, Boca Raton,FL, USA,2014

*Presenters/Предавачи*

*Topic/Тема: Академска каријера Михајла Пупина – поводом 160 год. од рођења*

*Presenter/Предавач: Проф. др Душан Драјић, ЕТФ Београд*

#### **11:00-12 :00 Tehnička prezentacija po pozivu**

*Topic/Тема: PRAKSA PROJEKTOVANJA TELEKOMUNIKACIONIH MREŽA I SISTEMA U OBJEKTIMA*

*Presenter/Предавач: Mirjana Jarić-Ćirić*

U toku prezentacije se izlažu iskustva i prikaz koncepta i zaključaka IV ciklusa serije od 10 stručnih predavanja iz oblasti telekomunikacionih mreža i sistema u objektima realizovanih u toku 2013/2014. godine. Ciljevi serije predavanja su bili upoznavanje elektroinženjera sa izmenama zakonske regulative i standarda u oblasti, upoređivanje iskustava u primeni tehnologije, opreme i SW za projektovanje prisutnih na domaćem tržištu na primerima realizovanih projekata kod nas i u svetu za specifične objekte i tehnologije u industriji. Navedeni ciklus predavanja je realizovan uz podršku programa sufinansiranja projektata Inženjerske Komore Srbije (IKS)

### EXHIBITION/ ИЗЛОЖБА

**PTT „Serbia“, PTT Museum / ПТТ „Србија“, Музеј ПТТ**

**„160 година од рођења Михајла Пупина – Живот и дело“  
„160 years birth anniversary of Michael Pupin – Life and work“**

**THE SAVA CENTER MAIN HALL / Главни хол САВА ЦЕНТРА**

## **IEEE SEMINAR**

How Should Engineers Express Their Ideas)

**Oral Presentation Skills (new)**

**Introduction to Writing Technical Papers**

***Trainer Dr. Kurt Richter***

*Emeritus Professor of Electrical Engineering  
University of Technology Graz, Austria*

TELFOR 2014

Wednesday, 26.11.2014.

8:30-13:30h

Room 9a/0

(free participation – registration required)

**Language:** *English*  
**Time:** *approx. 4-5 hours*  
**Target Group:** *Engineering students and young engineers*  
**Participants:** *Optimum 30 participants*

### Summary

In the seminar basic rules for oral presentations and writing technical papers will be discussed. Emphasis will be placed on papers in IEEE transactions and IEEE conferences. Recommendations will be given concerning the structure of the manuscript as well as on the layout and the expected content in each part of it. It also will deal with language problems of authors for whom English is not their first language. This in particular may lead to often made errors and eventually to the rejection of the manuscript by the reviewers. Finally, the participants will be interactively involved in drafting an abstract and/or an introduction.

**Facilities:** *Flipchart, (White- or Blackboard, (computer-) projektor,  
Internet access (when available)*

**ПРОГРАМ СПЕЦИЈАЛНИХ,  
РЕГУЛАРНИХ И СТУДЕНТСКИХ  
СЕКЦИЈА**

***SPECIAL, REGULAR AND STUDENT  
SESSIONS' PROGRAM***

**СПЕЦИЈАЛНЕ СЕКЦИЈЕ / *SPECIAL SESSIONS***

**СПЕЦИЈАЛНА СЕКЦИЈА 1 (CC1)  
*SPECIAL SESSION 1 (SS1)***

Low EMF Exposure Mobile Networks

<p><b>CC1 - Четвртак, 27.11.2014. године у 8:30 - сала 5/1</b> <b>SS1 - Thursday, 27.11.2014, 8:30 – Hall 5/1</b></p>
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**Председавајући: АЛЕКСАНДАР НЕШКОВИЋ**

**Chairpersons: ALEKSANDAR NEŠKOVIĆ**

- SS1.1. Frederik Freudenstein, Peter M. Wiedemann, Milica Pejanović-Djurišić, Mladen Koprivica, Aleksandar Nešković: **Intuitive Exposure and Risk Perception of RF EMF: Case Studies Serbia and Montenegro**
- SS1.2. Alexey Lagunov, Ludmila Morozova, Darina Lagunova, Nadejda Podorojnyak, Ksenia Kuznetsova: **Some Problems of Safety of Students at Work Wireless IEEE 802.11 Standard**
- SS1.3. Koprivica Mladen, Petrić Majda, Popović Milica, Milinković Jelena, Nikšić Stevan, Nešković Aleksandar: **Long-term variability of electromagnetic field strength for GSM 900 MHz downlink band in Belgrade urban area**
- SS1.4. Popović Milica, Koprivica Mladen, Nikšić Stevan, Milinković Jelena, Nešković Aleksandar: **Methodology for the comparison of cellular technologies and services with respect to EMF exposure**

**СПЕЦИЈАЛНА СЕКЦИЈА 2  
(CC2) SPECIAL SESSION 2 (SS2)**

Fore-Mont: Future Internet Technologies for e-Society

**CC2 - Уторак, 25.11.2014. године у 17:00 - сала 3/1**  
**SS2 - Tuesday, 25.11.2014, 17:00 – Hall 3/1**

**Председавајући: МИЛИЦА ПЕЈАНОВИЋ-ЂУРИШИЋ**

**Chairpersons: MILICA PEJANOVIĆ-DJURIŠIĆ**

- SS2.1. Peter Van Daele: **Future Internet Research: Join the Playground & Get Involved**
- SS2.2. Octavian Fratu, Simona Halunga, Razvan Craciunescu, Alexandru Vulpe: **Instrumental IoT – from Environmental Monitoring to Cosmic Ray Detection**
- SS2.3. Mihailović Andrej, Simeunović Marko, Lekić Nedjeljko, Pejanović-Djurišić Milica: **A strategy for deploying diverse sensor-based networks as an evolution towards integrated Internet of Things and Future Internet**
- SS2.4. Pokrić Boris: **Smart cities and IoT-our story**
- SS2.5. Tomović Slavica, Kenji Yoshigoe, Maljević Ivo, Pejanović-Djurišić Milica, Radusinović Igor: **SDN-based concept of QoS aware heterogeneous wireless network operation**
- SS2.6. Žarić Nikola, Radonjić Milutin, Sofoklis Kyriazakos, Pejanović-Djurišić Milica: **Automated Algorithm for Classification of Water-flow Signals to Support Ambient Assisted Living Applications**
- SS2.7. Vujović Stefan, Bulatović Nikola, Djukanović Slobodan: **Budi odgovoran – Tehnologija u službi društvene odgovornosti**

# ПРОГРАМ АУТОРСКИХ СЕКЦИЈА

## AUTHOR SECTIONS' PROGRAM

### СЕКЦИЈА 1: ПОЛИТИКА, РЕГУЛАТИВА И УСЛУГЕ У ТЕЛЕКОМУНИКАЦИЈАМА (ПРУ) TELECOMMUNICATIONS POLICY, REGULATORY ASPECTS AND SERVICES (PRS)

ПРУ 1 - Уторак, 25.11.2014. године у 14:30 - сала 3/1  
PRS 1 - Tuesday, 25.11.2014, 14:30 – Hall 3/1

Председавајући: НАТАША ГОСПИЋ и ВЛАДО ДЕЛИЋ

Chairpersons: NATAŠA GOSPIĆ and VLADO DELIĆ

- 1.1. Peraković Dragan, Husnjak Siniša, Cvitić Ivan: **IoT infrastructure as a basis for new information services in the ITS environment**
- 1.2. Škrbić Mirko, Huseinović Kemal, Nukić Lamija: **Cloud computing in Bosnia and Herzegovina**
- 1.3. Škrbić Mirko, Huseinović Kemal, Dervišević Nejra: **OTT Services in Bosnia and Herzegovina**
- 1.4. Plišević Dijana, Banović Nataša: **Changing face of Mobile Service Providers in BiH**
- 1.5. Mušović Jasmin, Hadžialić Mesud: **TV White Space: Solution for bridging the gap between user's demand and the network capacities**
- 1.6. Lukač Duško: **Influence of ICT Progress on Energy Transfer and Vehicle-to-Grid (V2G) Solutions**
- 1.7. Majid Fatahipour: **Potentials of telecom for socialising and language in Iran**
- 1.8. Pantović S. Vladan, Aničin N. Miroslav, Jovanović J. Miloš, Stefanović S. Aleksandra, Božić N. Marija: **Celoživotno učenje, sertifikacija i resertifikacija u oblasti projektnog menadžmenta**
- 1.9. Šarboh D. Snežana, Stojković I. Slobodan: **Novootkriveni patentni Mihajla Idvorskog Pupina**

### СЕКЦИЈА 2: ТЕЛЕКОМУНИКАЦИОНЕ МРЕЖЕ (ТМ) TELECOMMUNICATIONS NETWORKS (TN)

ТМ 1 - Уторак, 25.11.2014. године у 14:30 - сала 2/0  
TN 1 - Tuesday, 25.11.2014, 14:30 – Hall 2/0

Председавајући: ДЕЈАН ДРАЈИЋ

Chairperson: DEJAN DRAJIĆ

- 2.1. Borovina Nihad, Peruničić Branislava: **Mobile Ad Hoc Networks: Local Distributed Algorithms for Virtual Backbone, *Invited Paper***
- 2.2. M. Yadollahi, V. T. Vakili, M. Ghaseminajm, A. Jafarian: **Reducing Processing Delay and Ping Pong Impact of Multi Attribute Decision Making Handover for Heterogeneous Wireless Networks**



- 2.3. Lela Mirtskhulava, Salah S. Al-Majeed: **Reliability Prediction Modelling for Wireless Communication Networks**
- 2.4. Mohammad Majidzadeh, Mohsen Eslami: **Efficiency, Robustness, and Fairness of a Novel Suboptimal RA Algorithm for MIMO-OFDMA Systems**
- 2.5. Tuba Milan, Bacanin Nebojša, Alihodžić Adis: **Firefly algorithm for multi-objective RFID network planning problem**
- 2.6. Hadžialić Mesud, Škrbić Mirko, Huseinović Kemal, Kočan Irvin: **An Approach to Analyze Security of GSM Network**
- 2.7. Alexey Lagunov, Dmitry Fedin, Anatolij Tyagunin, Anton Belugin, Vitaly Pozdeev, Vladimir Terehin, Nadegda Podorozhnyak, Vitaly Glavatskih, Pavel Danilochkin: **Study of the Actual Coverage Area of the Satellite Signal Ka-Sat RUSSIA**

<b>TM 2 - Уторак, 25.11.2014. године у 17:00 - сала 2/0</b> <b>TN 2 - Tuesday, 25.11.2014, 17:00 – Hall 2/0</b>
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**Председавајући: НЕНАД КРАЈНОВИЋ**

**Chairperson: NENAD KRAJNOVIĆ**

- 2.8. Sukhov M. Andrei, Onoprienko V. Artem: **Evaluating the Effectiveness of Geographic Routing Based on RIPE Atlas Data**
- 2.9. Tomović Slavica, Neeli Prasad, Radusinović Igor: **SDN control framework for QoS provisioning**
- 2.10. M. Hložak, J. Frnda, M. Voznak: **Analysis of Cisco and Huawei Routers Cooperation for MPLS Network Design**
- 2.11. Jans Jelinskis, Andris Skrastinš: **Analysis of Effective Fuzzy-CAC Solution for Proactive Traffic Engineering**
- 2.12. L. Sevcik, D. Uhrin, J. Frnda, M. Uhrina, M. Voznak: **The impact of encryption to video transmission in the network**
- 2.13. Radu Alexandru Badea, Eugen Borcoci: **Content Server Saturation Avoidance Algorithm based on Financial Analysis Techniques**
- 2.14. Marković Stanislav, Ačanski Milan, Bako Miroslav, Mudri Saša: **Realizacija programske podrške SAT2IP klijenta zasnovanog na RTSP protokolu**
- 2.15. Bukvić M. Mara, Mišić B. Jelena: **Prioritiziranje saobraćaja u 802.15.6 MAC – sličnosti i razlike sa 802.11 i 802.15.4**
- 2.31 Dušan Knežević, Tomislav Maruna, Milan Ačanski: **Realizacija programske biblioteke za generisanje liste kanala na osnovu internet izvora**

<b>TM 3 - Среда, 26.11.2014. године у 8:30 - сала 2/0</b> <b>TN 3 - Wednesday, 26.11.2014, 8:30 – Hall 2/0</b>
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**Председавајући: ЗОРАН ЧИЧА**

**Chairperson: ZORAN ČIČA**

- 2.16. Mihailo M. Stanić: **A Novel Method for Improving Availability in Telephone Network of Electric Power Utility, *Invited Paper***
- 2.17. Muhammad Ajmal Azad: **SPIT Detection Using Social Relationship (SPIT-DSR)**
- 2.18. Džajić Miloš, Todorović M. Branislav, Karanović Miroslav: **Analiza vremena prenosa poruka tokom prebacivanja SCTP saobraćaja na sekundarni prenosni put**
- 2.19. Jeftenić Nikola, Glamočanin Dušanka: **Prilog sinhronizacije u mobilnim mrežama nove generacije**

- 2.20. Omerašević Damir, Behlilović Narcis, Mrdović Saša: **Secure Message Exchange Protocol for Smart Grids**
- 2.21. Mohammed Kemal, Rasmus Olsen: **Analysis of Timing Requirements for Data Aggregation and Control in Smart Grids**
- 2.22. Stojanović Zvezdan: **Formiranje paketa servisa kao način zadržavanja postojećih korisnika i povećanja ARPU-a na tržištu Bosne i Hercegovine**

**TM 4 - Среда, 26.11.2014. године у 11:00 - сала 2/0**  
**TN 4 - Wednesday, 26.11.2014, 11:00 – Hall 2/0**

**Председавајућа: АЛЕКСАНДРА СМИЉАНИЋ**

**Chairperson: ALEKSANDRA SMILJANIĆ**

- 2.23. Mali J. Božidar, Ninković M. Nemanja, Stojanović D. Mirjana, Savić I. Gordana: **Service class mapping based on integer programming algorithm in the third party agent**
- 2.24. Andris Skrastiņš: **Admission Control Scheme for Effective Revenue Management in NGN Networks**
- 2.25. Filip Tsvetanov, Kamen Tsvetanov, Elena Ivanova, Ivanka Georgieva: **Modelling and Simulation of Communication Efficiency in Low-Speed Networks**
- 2.26. Stefan Stancescu, Adrian Alexandru Luca, Alexandru Caraivan: **TCP-AQM Algorithms which combat the computer networks' congestion**
- 2.27. Finaskins Dmitrijs, Lauks Gunars: **Using attractor selection Simulink model for virtual network topology resource management**
- 2.28. Škaljo Namir, Begović Alen: **A Possibility of Using Wideband Noise for Qualification and Troubleshooting of Digital Subscriber Lines**
- 2.29. Aćimović Boris: **Slučaj opterećenja zaštitnog provodnika u dc električnom razvodu data centra**
- 2.30. Pantović R. Marijana, Dukić L. Miroslav, Janković Lj. Milan: **Značaj širokopoljnih komunikacija u borbi protiv naglih klimatskih promena**

### **СЕКЦИЈА 3: РАДИО-КОМУНИКАЦИЈЕ (РК) RADIO COMMUNICATIONS (RC)**

**RK 1 - Уторак, 25.11.2014. године у 14:30 – сала 5/1**  
**RC 1 - Tuesday, 25.11.2014, 14:30 – Hall 5/1**

**Председавајући: ЗОРАН ВЕЉОВИЋ**

**Chairperson: ZORAN VELJOVIĆ**

- 3.1. Tomašević M. Nikola, Nešković M. Aleksandar, Nešković J. Nataša: **Artificial Neural Network Based Simulation of Short-Term Fading in Mobile Propagation Channel, *Invited Paper***
- 3.2. Stefanović Z. Hana: **The analysis of integral characteristics of received signal envelope in wireless mobile communications, *Invited Paper***
- 3.3. Costas Chaikalas, Charalampos Liolios, Vassileios Vlachos: **Implementation of an improved reconfigurable SOVA/log-MAP turbo decoder in LTE**
- 3.4. Sanja Angelova, Venceslav Kafedziski: **Comparison of the Secrecy Rates of Two Suboptimal Transmission Methods for the Fading MIMO Wiretap Channel**

- 3.5. Erić Miljko, Vujić Dejan, Janjić Miloš, Vučić Desimir: **Integration of Joint Spatio-Temporal Spectrum Sensing in Cellular Wireless Systems**
- 3.6. Hašimbegović Emir, Kočan Enis: **Experimental results for statistical properties of signal envelope in indoor fading channel at 2.4GHz**

**PK 2 – Уторак, 25.11.2014. године у 17:00 - сала 5/1**  
RC 2 - Tuesday, 25.11.2014, 17:00 – Hall 5/1

**Председавајући: МИРЈАНА СИМИЋ**

**Chairperson: MIRJANA SIMIĆ**

- 3.7. Perić Miroslav: **Method for Annual Performance Analysis of IP Networks above 70GHz, *Invited Paper***
- 3.8. Vujić S. Dejan: **Estimation of UMTS RAN Resources for Special Events, *Invited Paper***
- 3.9. Simić Mirjana, Stojković Nikola: **Indoor Positioning Based on Experimental Space Segmentation Method**
- 3.10. Škrbić Mirko, Huseinović Kemal, Korda Selmedin, Kasumagić Lamija, Hebibović Alisa: **Web-based Service Implementation via GSM Network**
- 3.11. Vladimir Nikolikj, Toni Janevski: **Profitability and Comparative Cost-Capacity Analysis of 5G Millimeter-Wave Systems**
- 3.12. Veljović Zoran, Urošević Uglješa: **Unapređenje performansi virtuelnih QOSTBC sistema**

**PK 3 – Среда, 26.11.2014. године у 8:30 - сала 5/1**  
RC 3 - Wednesday, 26.11.2014, 8:30 – Hall 5/1

**Председавајући: ГОРАН МАРКОВИЋ**

**Chairperson: GORAN MARKOVIĆ**

- 3.13. Marković B. Goran: **Cooperative Modulation Classification by Using Multiple Sensors in Dispersive Fading Channels, *Invited Paper***
- 3.14. Meftah A. Mehdawi, N. G. Riley, K. Paulson, M. Ammar, A. Fanan, M. Zolfaghari: **Experimental detection Using Cyclostationary Feature Detectors for Cognitive Radios**
- 3.15. Erić Miljko, Janjić Miloš: **A solution to coexistence of OFDM and FH signals based on principles of cognitive radio implemented on USRP N210 platform**
- 3.16. Berbakov Lazar, Beko Marko: **Simultaneous Distributed Carrier Synchronization and Data Transmission in Wireless Sensor Networks**
- 3.17. Erić Miljko, Vučić Desimir: **Some System Aspects of Spectrum Sensing**

**PK 4 – Среда, 26.11.2014. године у 11:00 - сала 5/1**  
RC 4 - Wednesday, 26.11.2014, 11:00 – Hall 5/1

**Председавајући: ЂУРАЂ БУДИМИР**

**Chairperson: DJURADJ BUDIMIR**

- 3.19. Dimić Goran, Bajić Dragana, Beko Marko: **Energy- and Spectral-Efficiency Increase while Constraining Interference using Regenerative Relay**

- 3.20. Vladimir Shakhov: **Tradeoff Between Energy Harvesting Duration and Reliability in Wireless Sensor Networks**
- 3.21. Kemal Hajdarevic, Samim Konjicija, Abdulhamit Subasi: **A Low Energy APRS-IS Client-Server Infrastructure Implementation using Raspberry Pi**
- 3.22. Ilić Dalibor, Šunjevarić Milan: **Contribution of energy efficiency in a heterogeneous mobile network**
- 3.23. Zogović N.: **State-of-the-art low-power transceivers for the next generation of wireless sensor networks motes**
- 3.24. Mišić Jelena, Marković Vera, Marinković Zlatica, Budimir Đurađ: **Behavioral Modeling of Low Noise Amplifiers for LTE Systems Based on Modified Elman Neural Networks**
- 3.25. Božović Rade: **Smanjenje PAPR parametra 16-QAM OFDM signala primenom algoritma dinamičke modifikacije konstelacionog dijagrama**

#### **СЕКЦИЈА 4: СИСТЕМИ ПРЕНОСА СИГНАЛА (СПС) COMMUNICATIONS SYSTEMS (CS)**

**СПС 1 - Уторак, 25.11.2014. године у 14:30 - сала 1а/0**  
**CS 1 - Tuesday, 25.11.2014, 14:30 – Hall 1a/0**

**Председавајући: ДЕЈАН ДРАЈИЋ и НЕНАД МИЛОШЕВИЋ**

**Chairpersons: DEJAN DRAJIĆ and NENAD MILOŠEVIĆ**

- 4.1. Dimitrijević Bojan, Milošević Nenad, Paunović Đorđe, Nikolić Zorica: **Optimization of the Frame Synchronization Algorithm for OFDM Communications**
- 4.2. George Casu, Leontin Tuta, Ioan Nicolaescu, Catalin Moraru: **Some aspects about the advantages of using MIMO Systems**
- 4.3. P. M. Papazoglou, D. A. Karras, R. C. Papademetriou: **On Improved Modeling and Simulation of Wireless Communication Systems using Multi-agent and Multi-threading Systems Architectures for efficient spectrum reuse**
- 4.4. Zogović N., Bajić D., Dimić G.: **A real ARQ Scheme for Improving Decision Space Resolution**
- 4.5. Esenogho Ebenezer, Tom Walingo: **Primary Users ON/OFF Behaviour Models in Cognitive Radio Networks**
- 4.6. Esenogho Ebenezer, Tom Walingo: **Impact of Primary Users on Secondary User's Channels in Centralized Cognitive Radio networks**
- 4.7. Gyorgy Kalman: **Applicability of Software Defined Networking in Industrial Ethernet**

**СПС 2 - Уторак, 25.11.2014. године у 17:00 - сала 1а/0**  
**CS 2 - Tuesday, 25.11.2014, 17:00 – Hall 1a/0**

**Председавајући: ЂУРАЂ БУДИМИР и НЕНАД МИЛОШЕВИЋ**

**Chairpersons: DJURADJ BUDIMIR and NENAD MILOŠEVIĆ**

- 4.8. Kosanović Mirko, Stojčev Mile: **Energy efficiency of sensor nodes, *Invited Paper***
- 4.9. Mijušković Jelena, Bukvić Branko, Nešković Nataša, Maleš-Ilić Nataša, Budimir Djuradj: **Compensation of Nonlinear Distortion in RF Power Amplifiers by Injection for LTE Applications**

- 4.10. Massinissa Hadjloum, Mohammed El Gibari, Hongwu Li, Afshin S. Daryoush: **Ultra-Wideband GCPW-CMS-GCPW Transition for Characterization of All-optical ADCs Based on Leaky Waveguide Deflector**
- 4.11. M. Kovac, G. Nagy, V. Stopjakova, D. Arbet: **Design of CMOS Integrated UWB Antenna for Implantable Biosensors**
- 4.12. Stanivuk Stefan, Krunic Momčilo, Kovačević Jelena: **One solution of G.722 codec on embedded platform**
- 4.13. Tucic Milan, Pavlovic Roman, Papp Istvan, Saric Djordje: **Networking Layer for Unifying Distributed Smart Home Entities**
- 4.14. Dejan Spasov, Sasko Ristov, Marjan Gusev: **Enhancing and Simulating the RIP Routing Protocol in Cloud**

**СПС 3 - Среда, 26.11.2014. године у 8:30 - сала 1a/0**  
**CS 3 - Wednesday, 26.11.2014, 8:30 – Hall 1a/0**

**Председавајући: ГОРАН ЂОРЂЕВИЋ и ПРЕДРАГ ИВАНИЋ**

**Chairpersons: GORAN ĐORĐEVIĆ and PREDRAG IVANIŠ**

- 4.15. Anastasov A. Jelena, Stefanović Č. Mihajlo: **Impact of fading/shadowing correlation on outage performance of SSC receiver, *Invited Paper***
- 4.16. Petković Milica, Zdravković Nemanja, Đorđević Goran: **Outage performance of switch-and-examine combining receiver over FSO Gamma-Gamma atmospheric turbulence with pointing errors**
- 4.17. Ilić-Delibašić Maja, Pejanović-Đurišić Milica: **Selective Cooperative Relaying System with Polarization Diversity**
- 4.18. Lucian A. Perisoara, Rodica Stoian, Dragos I. Sacaleanu, Dan Al. Stoichescu: **A New Stopping Criterion for Turbo Decoders Based on the Minimization of Error Probability**
- 4.19. Iliavska Natasha, Gligoroski Danilo: **Simulation of Some New Models of Error-Detecting Codes**
- 4.20. Leonid Uryvsky, Alina Moshynska, Serhii Osypchuk: **Algorithm of choice a multiposition keying in wireless system with LDPC coding**
- 4.21. Salvatore Dipietro, Gregory Epiphaniou, Vasilis Freiderikos, Carsten Maple: **Downhill+: An Improved Trust-based Path Selection Algorithm for the Tor Relay Network**

**СПС 4 - Среда, 26.11.2014. године у 11:00 - сала 1a/0**  
**CS 4 - Wednesday, 26.11.2014, 11:00 – Hall 1a/0**

**Председавајући: БОРИСЛАВ ОДАЦИЋ и ЗОРАН ЧИЧА**

**Chairpersons: BORISLAV ODADŽIĆ and ZORAN ČIČA**

- 4.22. Vasić Z. Selen: **Diversity techniques in mitigating the effects of k- $\mu$  fading and interference in wireless digital telecommunication systems, *Invited Paper***
- 4.23. Dobrilović Dalibor, Odadžić Borislav, Stojanov Željko, Šinik Vladimir: **Testing Zigbee RF module applicability for usage in temperature monitoring systems**
- 4.24. Bostjancic Rakas V. Slavica, Timcenko V. Valentina: **Quality of service and security issues in MANET environment**
- 4.25. Kabović V. Anka, Kabović M. Milenko, Čelebić V. Vladimir: **Realizacija softvera za komunikaciju po standardu IEC61850 na nanoRISC MSC hardverskoj platformi**

- 4.26. Jaćimović M. Nikola, Planić Ž. Bratislav: **Vremenska optimizacija hardverske implementacije AES-256 algoritma**
- 4.27. Nikolić Vojkan, Dragović Rade: **Interoperabilnosti i bezbednost eGovernment Republike Srbije**

## СЕКЦИЈА 5: ОБРАДА СИГНАЛА (ОС) SIGNAL PROCESSING (SP)

<b>ОС 1 - Уторак, 25.11.2014. године у 14:30 - сала 6/1</b> <b>SP 1 - Tuesday, 25.11.2014, 14:30 – Hall 6/1</b>
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**Председавајући: MATOUŠ BARTL и ЂОРЂЕ БАБИЋ**

**Chairpersons: MATOUS BARTL and DJORDJE BABIĆ**

- 5.1. Nikša M. Jakovljević: **Gaussian Mixture Model with Precision Matrices Approximated by Sparsely Represented Eigenvectors, *Invited Paper***
- 5.2. Ilić D. Aleksandar, Cvetković Ž. Zlata, Pavlović D. Vlastimir: **Analysis of new special Gegenbauer filters generated by Christoffel-Darboux formula, *Invited Paper***
- 5.3. Banjac Zoran, Kovačević Branko, Kostić-Kovačević Ivana: **Variable Forgetting Factor Estimation in Impulsive Noise Environment**
- 5.4. Matouš Bartl, Karel Čermak: **Implementation of Artificial Neural Network with adaptable topology on low-end embedded systems**
- 5.5. Medenica Milica, Zuković Sanja: **Statistička analiza parametara neiterativnog algoritma za rekonstrukciju kompresivno odabranih signala**
- 5.6. Babić Djordje, Vukotić Selen: **Estimation of the number of polynomial segments and the polynomial order of prolonged Farrow structure**
- 5.7. Stošić P. Biljana, Pavlović D. Vlastimir, Milić N. Dejan: **Performances of the Novel Modified CIC FIR Filter Functions**

<b>ОС 2 - Среда, 26.11.2014. године у 8:30 - сала 6/1</b> <b>SP 2 - Wednesday, 26.11.2014, 8:30 – Hall 6/1</b>
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**Председавајући: PAVEL FIALA и ЖАРКО БАРБАРИЋ**

**Chairpersons: PAVEL FIALA and ŽARKO BARBARIĆ**

- 5.8. Barbarić Žarko, Pavlović Aleksandra, Nikolić Vera: **The estimated temperature error using an infrared thermal imaging camera**
- 5.9. Birdić Radovan, Kaštelan Ivan, Lukač Željko, Samardžija Dragan, Temerinac Miodrag: **Okruženje za izradu laboratorijskih vežbi iz oblasti obrade signala**
- 5.10. Pavel Fiala, Richard Linhart: **High performance VHDL FIR filter structure for symbol timing system implemented on FPGA**
- 5.11. Dujković M. Dragi, Dedić Nešić Snežana, Grubišić Lenkica, Paskaš Milorad, Reljin Irini: **Matched Crystal Filters**
- 5.12. Grubišić Lenkica, Dedić Nešić Snežana, Dujković Dragi, Reljin Branimir, Gavrovska Ana: **Definisanje uslova naparavanja elektroda u obliku tankog metalnog filma za novu kristalnu jedinku SC reza**
- 5.13. Šćepanović Nenad, Kaštelan Ivan, Lukač Željko, Očovaj Stanislav, Samardžija Dragan: **Optimizacija VP8 dekodera za obradu video signala**

**OC 3 - Среда, 26.11.2014. године у 14:30 - сала 6/1**  
**SP 3 - Wednesday, 26.11.2014, 14:30 – Hall 6/1**

**Председавајући: БРАНКА СТОЈАНОВИЋ и CRISTIAN PERRA**

**Chairpersons: BRANKA STOJANOVIĆ and CRISTIAN PERRA**

- 5.14. Orović Miloš, Pejaković Tamara: **Logo Watermarking for Image Protection in the Compressive sensing Scenario**
- 5.15. Stanković Isidora, Orović Irena, Stanković Srđan: **Image Reconstruction from a Reduced Set of Pixels using a Simplified Gradient Algorithm**
- 5.16. Savić Slavica: **Multifocus Images Sets Fusion Using First Level of Empirical Mode Decomposition**
- 5.17. Stojanović Branka, Nešković Aleksandar, Popović Zdravko, Lukić Vojislav: **ANN Based Fingerprint Image ROI Segmentation**
- 5.18. Starčević Đorđe, Ostojić Vladimir, Petrović Vladimir: **Automatic radiography image orientation using machine learning**
- 5.19. Ostojić Vladimir, Starčević Đorđe, Petrović Vladimir: **Artifact reduction in multiscale contrast enhancement for digital radiography**
- 5.20. F. Murgia, S. B. Fernandez, D. D. Giusto, C. Perra: **Unfocused plenoptic camera calibration**
- 5.21. Arash Saboori, S. Abolfazl Hosseini: **A New Method For Digital Watermarking Based on Combination of DCT and PCA**

**OC 4 - Среда, 26.11.2014. године у 17:00 - сала 6/1**  
**SP 4 - Wednesday, 26.11.2014, 17:00 – Hall 6/1**

**Председавајући: МИЛИЦА ЂУРИЋ-ЈОВИЧИЋ и DOMOKOS JOZSEF**

**Chairpersons: MILICA DJURIĆ-JOVIČIĆ and DOMOKOS JOZSEF**

- 5.22. Jozsef Domokos, Adriana Stan, Mircea Giurgiu: **An Approach to Lexical Stress Detection from Transcribed Continuous Speech Using Acoustic Features**
- 5.23. D. Uhrin, P. Partila, M. Voznak: **Design and Implementation of Czech Database of Speech Emotions**
- 5.24. Suzić Siniša, Pekar Darko, Delić Vlado: **On the Realization of AnSpeechCollector, System for Creating Transcribed Speech Database**
- 5.25. Miler-Jerković Vera, Đurić-Jovičić Milica, Perović-Belić Minja, Ječmenica-Lukić Milica, Petrović N. Igor, Radovanović M. Saša, Kostić S. Vladimir, Popović B. Mirjana: **Multiple regression analysis of repetitive finger tapping parameters**
- 5.26. Đurić-Jovičić D. Milica, Bobić N. Vladislava, Ječmenica-Lukić Milica, Petrović N. Igor, Radovanović M. Saša, Jovičić S. Nenad, Kostić S. Vladimir, Popović B. Mirjana: **Implementation of continuous wavelet transformation in repetitive finger tapping analysis for patients with PD**
- 5.27. Isaković S. Milica, Miljković Nadica, Popović Mirjana: **Classifying sEMG-based Hand Movements by Means of Principal Component Analysis**
- 5.28. Sina Mohseni, Gholamreza Ardeshtir, Niloofar Zarei: **Facial Expression Recognition Based on Anatomical Structure of Human Face**
- 5.29. Gorana Mijatović, Emmanuel Procyk, Tatjana Lončar Turukalo: **Statistical approach to inter-spike interval ramps**

**OC 5 - Четвртак, 27.11.2014. године у 8:30 - сала 6/1**  
**SP 4 - Thursday, 27.11.2014, 8:30 – Hall 6/1**

**Председавајући: ИРЕНА ОРОВИЋ и МИЛОШ ЈЕВТИЋ**

**Chairpersons: IRENA OROVIĆ and MILOŠ JEVTIĆ**

- 5.30. Demian Lekomtcev, Roman Marsalek: **Evaluation of Kolmogorov – Smirnov Test for Cooperative Spectrum Sensing in real channel conditions**
- 5.31. Draganić Anđela, Orović Irena, Stanković Srđan: **Blind Signals Separation in wireless communications based on Compressive Sensing**
- 5.32. Stanković Srđan, Orović Irena, Pejaković Tamara, Orović Miloš: **Compressive sensing reconstruction of signals with sinusoidal phase modulation: application to radar micro-Doppler**
- 5.33. Djukanović Slobodan, Simeunović Marko: **Adaptive Order Selection in Quasi-Maximum Likelihood-Based IF Estimation**
- 5.34. Daković Miloš, Stanković Ljubiša, Orović Irena: **Adaptive Gradient Based Algorithm for Complex Sparse Signal Reconstruction**
- 5.35. Vujović Stefan, Daković Miloš, Stanković Ljubiša: **Comparison of the L1-magic and the Gradient Algorithm for Sparse Signals Reconstruction**
- 5.36. Vladimir Lyashev, Mikhail Maksimov, Nikolai Merezhin: **Non-Linear Optimization Scheme for Non-Orthogonal Multiuser Access**
- 5.37. Jevtić Miloš, Marković Ksenija, Pajić Tanja, Mišić Branislav, Šmidling Bojan: **Track-to-track Fusion Module for Network-centric Air Surveillance Applications**

## **СЕКЦИЈА 6: ОПТИЧКЕ ТЕЛЕКОМУНИКАЦИЈЕ (ОТ) OPTICAL COMMUNICATIONS (OC)**

**ОТ 1 - Среда, 26.11.2014. године у 11:00 - сала 6/1**  
**AEL 1 - Wednesday, 26.11.2014, 11:00 – Hall 6/1**

**Председавајући: ДЕЈАН ГВОЗДИЋ**

**Chairperson: DEJAN GVOZDIĆ**

- 6.1. Katina Krlevska, Harald Overby, Danilo Gligorski: **Joint Balanced Source and Network Coding**
- 6.2. Ioannis Karamitsos, Fahad Ali Alsaiagh, Christos Apostolopoulos: **Future and Trends of Optical Transport Networks**
- 6.3. Mikhail E. Belkin, Ivan Khmelnitski, Sergei Aheev, Alexander Karaulov, Igor V. Myagkov, Igor V. Gladyshev: **A Method to Combine Communication and Safeguard Functions within One Fiber-Optic Access Network**
- 6.4. Radivojević R. Mirjana, Matavulj S. Petar: **Analiza troškova izgradnje multiservisne EPON mreže na teritoriji grada Beograda**
- 6.5. Adel M. Buhafa, Basman M. Al-Nedawe, Martin J. N. Sibley, Peter J. Mather: **VLC System Performance using Dicode Pulse Position Modulation over an Indoor Diffuse Link**
- 6.6. Stojanović Nebojša, Zhang Qiang, Cristian Prodaniuc: **Fractionally Spaced MLSE in Bandlimited Optical Systems using Intensity Modulation and Direct Detection**
- 6.7. George S. Kliros, Elias K. Pilakoutas: **Stretching of Short Pulses through Transmission in Non-linear Photonic Crystal Fibers**



- 6.8. Pajković V. Rastko, Krstić M. Marko, Crnjanski V. Jasna, Totović R. Angelina, Gvozdić M. Dejan: **Phase Space of Tristability in Dual Injection-Locked Fabry-Perot Laser Diodes**

**СЕКЦИЈА 7: ПРИМЕЊЕНА ЕЛЕКТРОНИКА (ПЕЛ)  
APPLIED ELECTRONICS (AEL)**

**ПЕЛ 1 - Среда, 26.11.2014. године у 8:30 - сала 3/1  
AEL 1 - Wednesday, 26.11.2014, 8:30 – Hall 3/1**

**Elektronska kola i sistemi 1/ Electronic circuits and systems 1**

**Председавајући: ВЕРА МАРКОВИЋ и РАДИВОЈЕ ЂУРИЋ**

**Chairperson: VERA MARKOVIĆ and RADIVOJE ĐURIĆ**

- 7.1. Grujić N. Dušan, Saranovac Lazar: **Design of Monolithic Microwave Integrated Circuits for 60 GHz Band, Invited Paper**
- 7.2. Stelios Tsitsos, Hristos Anastassiou, Anastasios Papatsoris: **3-Way Wide-Band Planar Power Divider**
- 7.3. Klisić Djodje, Radovanović Ilija, Bežanić Nikola, Stamenić Ljubisav, Popović Ivan: **Voltage Controlled Power Characteristics of a Custom Made Laser Diode Assembly**
- 7.4. Živanović B. Zoran, Smiljaković J. Vladimir: **Design and Realization of eGaN FET DCDC Converter**
- 7.5. Marinković Zlatica, Aleksić Ana, Pronić-Rančić Olivera, Marković Vera, Larissa Vietzorreck: **Analysis of RF MEMS Capacitive Switch based on the Switch Resonant Frequency ANN Model**
- 7.6. Lukas Valda: **Replacement of the Mains Voltage by Reconfigurable Li-ion Battery for 4kW Power Inverter**
- 7.7. Petr Kribsky, Kamil Kosturik: **Li-Ion State of Charge Estimation Methods**
- 7.8. Panagiotis Karydopoulos, Panagiotis Frantzis, Nikolaos Karagiannis: **Structure of Ball Grid Array/Permanent Semi-Elastomeric thermally Conductive Crumb Rubber Reinforced Bituminous Stencil/Printed Circuit Board Interconnects**

**ПЕЛ 2 - Среда, 26.11.2014. године у 11:00 - сала 3/1  
AEL 2 - Wednesday, 26.11.2014, 11:00 – Hall 3/1**

**Elektronska kola i sistemi 2/ Electronic circuits and systems 2**

**Председавајући: ИВАН ПОПОВИЋ и ЈЕЛЕНА ПОПОВИЋ-БОЖОВИЋ**

**Chairpersons: IVAN POPOVIĆ and JELENA POPOVIĆ-BOŽOVIĆ**

- 7.9. C. Musu, V. Popescu, D. Giusto: **Workplace Safety Monitoring using RFID Sensors**
- 7.10. Simić Mitar: **Complex Impedance Measurement System for Environmental Sensors Characterization**
- 7.11. Petruševski Ivan, Živanović Miloš, Rakić Aleksandar, Popović Ivan: **Novel AMI Architecture for Real-Time Smart Metering**
- 7.12. N. N. Prokopenko, N. V. Butyrlagin, I. V. Pakhomov: **The Method of Increasing of the Voltage Gain of the Classical Differential Stages with Passive Resistive Load**
- 7.13. N. N. Prokopenko, N. V. Butyrlagin, I. V. Pakhomov: **The High Frequency Cascode Amplifiers with the Combined Circuits of the Inherent Compensation of the Cross Capacitance of the Output Transistor and Resistor of the Load**

- 7.14. Gianluca Susi, Alessandro Cristini, Mario Salerno, Emiliano Daddario: **A Low-cost Indoor and Outdoor Terrestrial Autonomous Navigation Model**
- 7.15. Hodžić Mujo, Suljanović Nermin, Mujčić Aljo: **Modelovanje i simulacija metal oksidnih varistora pomoću Verilog-A jezika**
- 7.16. Karel Cermak, Matous Bartl: **Aid for pre-mathematical imaginations improvement**

**ПЕЛ 3 - Среда, 26.11.2014. године у 14:30 - сала 3/1**  
**AEL 3 – Wednesday, 26.11.2014, 14:30 – Hall 3/1**

**Elektronika u sistemima upravljanja / Electronic in control systems**

**Председавајући: KAMIL KOSTURIK и ВУЈО ДРНДАРЕВИЋ**

**Chairpersons: KAMIL KOSTURIK and VUJO DRNDAREVIĆ**

- 7.17. Ludek Elis, Pavel Turjanica, Libor Polacek, Lubos Piterka: **Evaluation of REMCS Control System for Safety Applications**
- 7.18. Lukas Pusman, Kamil Kosturik: **Integration of Digimatic Measuring Tool into LinuxCNC Controlled Milling Machine by Using MODBUS**
- 7.19. Nikolić V. Marko, Kosić D. Bojan, Milanović D. Milan, Antonić M. Nenad, Stojković M. Željko, Kokić Z. Ivan: **Railway Axle Counter Prototype**
- 7.20. Kokić Z. Ivan, Nikolić V. Marko, Kosić D. Bojan, Milanović D. Milan, Antonić M. Nenad, Stojković M. Željko: **Railway Axle Counter Remote Supervision System**
- 7.21. Mihajlović Živorad, Milosavljević Vladimir, Rajs Vladimir, Milivojčević Filip, Živanov Milos: **Miniature low cost sensor for measurement of gas concentration accessible via RS-485 interface for industrial and environmental application**
- 7.22. Jindrich Krivka, Jiri Žahour, Kamil Kosturik: **Autonomous Control System of Electrically Regenerable Diesel Particulate Filter for Light Duty Vehicles**
- 7.23. Jiri Žahour, Jindrich Krivka, Ludek Elis, Kamil Kosturik: **Electrical glowing of filtering elements in the DPF filter**
- 7.24. Marković Dušan, Pešović Uroš, Randić Siniša: **Koncept prenosa podataka kod uređaja zasnovanih na CC430F5137 mikrokontroleru prema IEEE 1451.0 standardu**

**ПЕЛ 4 – Среда, 26.11.2014. године у 17:00 - сала 3/1**  
**AEL 4 - Wednesday, 26.11.2014, 17:00 – Hall 3/1**

**Integrisana kola – Projektovanje i primena / Integrated circuits – Design and applications**

**Председавајући: МИЛАН ПРОКИН и ВЛАДИМИР РАЈОВИЋ Chairpersons:**

**MILAN PROKIN and VLADIMIR RAJOVIĆ**

- 7.25. Rajović M. Vladimir, Savić S. Goran, Prokin D. Milan: **Hardware Realization of Fast Image Encoder with Minimum Memory Size, *Invited Paper***
- 7.26. Savić Goran, Prokin Milan, Rajović Vladimir, Prokin Dragana: **Direktno filtriranje i dekompozicija slike sa minimalnim korišćenim resursima**
- 7.27. Savić Goran, Prokin Milan, Rajović Vladimir, Prokin Dragana: **Inverzno filtriranje i kompozicija slike sa minimalnim korišćenim resursima**
- 7.28. Nikolaos Kefalas, George Theodoridis: **A Hardware Implementation of the JVT Rate Control for H.264**
- 7.29. Popović T. Ivan, El Mezeni M. Dragomir, Janković P. Strahinja, Saranovac V. Lazar: **Load monitoring module for multiprocessor performance optimization**

- 7.30. Milanović D. Milan, Čelebić V. Vladimir, Salom M. Iva, Prezelj Jurij, Todorović Z. Dejan: **Projektovanje i realizacija FPGA platforme za akviziciju i obradu akustičkih signala u realnom vremenu**
- 7.31. Broulim Pavel, Broulim Jan, Vjačeslav Georgiev, Jan Moldaschl: **Very high resolution time measurement in FPGA**

## СЕКЦИЈА 8: ПРИМЕЊЕНА ЕЛЕКТРОМАГНЕТИКА (ПЕМ) APPLIED ELECTROMAGNETICS (AEM)

<b>ПЕМ 1 - Среда, 26.11.2014. године у 14:30 - сала 5/1</b> <b>AEM 1 - Wednesday, 26.11.2014, 14:30 – Hall 5/1</b>
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### Numerical methods, EM fields and microwave circuits

**Председавајући: ВЕСНА БЕНГИН-ЦРНОЈЕВИЋ И НЕБОЈША ПЈЕВАЛИЦА**

**Chairpersons: VESNA BENGIN CRNOJEVIĆ and NEBOJŠA PJEVALICA**

- 8.1. Mančić J. Žaklina, Petrović V. Vladimir: **Jaka formulacija metode konačnih elemenata za 2D kvazistatičke probleme i primena na vodove, Rad po pozivu**
- 8.2. Radonić Vasa, Crnojević-Bengin Vesna, Dewald Schoeman, Dirk de Villiers: **Multi-layer Frequency Selective Surfaces with Wideband Response and Their Modelling**
- 8.3. Janičić Vladan, Ilić Velibor, Pjevalica Nebojša, Nikolić Miloš: **An approach to modeling the hysteresis in ferromagnetic by adaptation of Preisach model**
- 8.4. Lazović Luka, Jovanović Ana, Rubežić Vesna: **Analiza performansi Capon i Capon-like algoritama primijenjenih na cirkularnim antenskim nizovima**
- 8.5. S. Dessi, A. Fanti, G. Valente, G. Mazzarella, G. Montisci, T. Pisanu: **Low Cost Elliptic Filter for Wireless Application**
- 8.6. Bjelić Slobodan, Marković Nenad, Živanić Jeroslav, Jakšić Uroš: **Frekventne karakteristike filtra u mernim članovima relejne zaštite**
- 8.7. Popović V. Nenad, Manojlović S. Predrag: **Zaštita LNA na X-opsegu sa PIN-diodnim limiterom za veće RF snage**

<b>ПЕМ 2 - Среда, 26.11.2014. године у 17:00 - сала 5/1</b> <b>AEM 2 - Wednesday, 26.11.2014, 17:00 – Hall 5/1</b>
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### Antennas

**Председавајући: БРАТИСЛАВ МИЛОВАНОВИЋ И ИВАНА РАДНОВИЋ**

**Chairpersons: BRATISLAV MILOVANOVIĆ AND IVANA RADNOVIĆ**

- 8.8. Milijić Marija, Nešić Aleksandar, Milovanović Bratislav, Radnović Ivana: **Wideband Printed Antenna Array in Corner Reflector with Cosecant Square-Shaped Beam Pattern**
- 8.9. Dimitrijević Tijana, Joković Jugoslav, Dončov Nebojša, Atanasković Aleksandar, Kurt Blau: **TLM Analysis of the Inverted Microstrip Patch Antenna in a Cylindrical Grid**
- 8.10. Fariba Ghasemi Najm, Amir Afshar Moshtaghpour, Mohsen Kaboli, K. N. Toosi: **Modeling, Design and Optimization of Dual Mode Circular Planar Monopulse Slot Array Antena in X-band**
- 8.11. Ertugrul Aksoy: **Harmonic Beam Steering in 4D Linear Arrays through Pulse Difference**

- 8.12. C. Musu, A. Fanti, D. Giusto: **Wearable Rectangular Patch Antenna for ICT Application: Dosimetry evaluation**
- 8.13. Reza Gholami, Bijan Zakeri: **Synthesis of Linear and Circular Antenna Arrays for Null Imposing and Side Lobe Level Reduction Using Particle Swarm Optimization**
- 8.14. Tatiana Yu. Privalova, Yury V. Yukhanov, Valentin A. Lesov: **Radiation and scattering characteristics of wave-guide and horn radiators as a part of a finite array**
- 8.15. Dragos C. Geambasu, Leontin Tuta, Marian G. Banciu, Liviu Nedelcu, Ioan Nicolaescu: **Compact antenna using ZST low-loss high dielectric constant material**

**ПЕМ 3 - Четвртак, 27.11.2014. године у 11:00 - сала 5/1**  
**АЕМ 3 - Thursday, 27.11.2014, 11:00 – Hall 5/1**

**Electromagnetics and global challenges**

**Председавајући: АЛЕКСЕЈ ЛАГУНОВ И ЖАКЛИНА МАНЧИЋ**

**Chairpersons: ALEXEY LAGUNOV AND ŽAKLINA MANČIĆ**

- 8.16. Udochukwu B. Akuru, Ogbonnaya I. Okoro: **Future Energy Generation using Solar Power Satellites (*Survey paper*)**
- 8.17. Alexey Lagunov, Anton Belugin, Anatoly Surovtsev: **Features of Supply of Telecommunications in the Arctic**
- 8.18. Ivan Luigi Spano, Alessandro Serpi, Alessandro Fanti, Vincenzo Nissardi, Francesco Valentino Caredda, Pier Francesco Orru, Giuseppe Mazzarella, Ignazio Marongiu, Gianluca Gatto: **Electromagnetic Compatibility Analysis of RFID and Implantable Medical Devices**
- 8.19. Reza Gholami, Bijan Zakeri, Hajar Abedi, Sina Mohseni: **Competetion Over Resources Algorithm and Its Application for Planar Array Pattern Synthesis**
- 8.20. Hadi Balegh, Bijan Abbasi Arand: **Analysis of a Microwave Hybrid Graphene-Metal Branch Line Coupler**
- 8.21. Diana V. Semenikhina, Andrey I. Semenikhin, Yury V. Yukhanov: **Synthesis of the Anisotropic Impedance Cylinder on the Given Polarization of the Scattered Field**
- 8.22. Vasily Yu. Kozhevnikov, Aleksei I. Klimov, Andrey V. Kozyrev: **Simulation and optimization of dummy loads for microwave calorimeters**
- 8.23. Mreza Khorramian, Ataollah Ebrahimzadeh, Bijan Zakeri: **Designing a Carpet Cloak for a PEC Half Circle Using Conformal Mapping**

**СЕКЦИЈА 9: МУЛТИМЕДИЈА (ММ)**  
**MULTIMEDIA (MM)**

**ММ 1 - Уторак, 25.11.2014. године у 14:30 - сала 3/0**  
**ММ 1 - Tuesday, 25.11.2014, 14:30 – Hall 3/0**

**Multimedija / Multimedia**

**Председавајући: МИЛАН БЈЕЛИЦА и МИЛОРАД ПАСКАШ**

**Chairpersons: MILAN BJELICA and MILORAD PASKAŠ**

- 9.1. Vasić Bata: **Annotation of cultural heritage 3-D models by robust data embedding in the object mesh, *Invited Paper***
- 9.2. Cristian Perra: **On the coding of plenoptic raw images**

- 9.3. Antoni Jaume-i-Capo, Andreja Samčović: **Vision-based interaction as an input of serious game for motor rehabilitation**
- 9.4. Pijetlović Stefan, Bašičević Ilija, Kovačević Đorđe, Teslić Nikola: **A solution of an ontology used as a data model for an Internet content provider**
- 9.5. Knežević Milan, Pejić Stefan, Jovanov Nevena, Stefanović Dejan: **Ispitivanje horizontalno proširivih rešenja za skladištenje podataka u sistemu za prikupljanje i preporuku multimedijalnog sadržaja**
- 9.6. Abdulrazaq Muhammad B., Ahmed Mohammed Z., Davey Paul: **Two Dimensional Equalisation of Shingled Write Disk**
- 9.7. Trailović Stefan, Berbakov Lazar, Todorović Dejan, Ristić Vukašin, Nenadić Nikola, Salom Iva: **Analiza kvaliteta različitih realizacija AAC audio kodeka na ARM procesorskim arhitekturama**
- 9.8. Bilibajkić Ružica, Furundžić Draško, Subotić Miško: **Primena neuralnih mreža u detekciji patološkog izgovora srpskih glasova**
- 9.9. Ferenc Goran, Popović-Božović Jelena: **An Infinite Beam Laser Harp with External MIDI I/O Functionality**

**MM 2 - Уторак, 25.11.2014. године у 17:00 - сала 3/0**  
**MM 2 - Tuesday, 25.11.2014, 17:00 – Hall 3/0**

**Video broadcasting**

**Председавајући: АНДРЕЈА САМЧОВИЋ и АНА ГАВРОВСКА**

**Chairpersons: ANDREJA SAMČOVIĆ and ANA GAVROVSKA**

- 9.10. Gavrovska M. Ana: **Computer-based analysis of cardiac sounds based on multiscale techniques, Invited Paper**
- 9.11. Jovanović Vedran, Risojević Vladimir: **Evaluation of Bag-of-Colors Descriptor for Land Use Classification**
- 9.12. Peić Tukuljac Helena, Nađ Dejan, Stupar Goran, Bjelica Z. Milan: **A solution f a DTV recommendation engine based on broadband and broadcast data**
- 9.13. Milivojević Milan, Mišković Božimir, Reljin Irini: **Possible scenarios of HDTV and UHDTV programmes broadcasting within DVB-T2**
- 9.14. Miličević M. Zoran, Bojković S. Zoran: **HEVC Performance Analysis for HD and Full HD Applications**
- 9.15. Miroslav Uhrina, Lukas Sevcik, Jaroslav Frnda, Martin Vaculik: **Impact of H. 265 and VP9 Compression Standards on the Video Quality for 4K Resolution**
- 9.16. Joldžić V. Ognjer, Đurić I. Zoran, Vuković R. Dijana: **Experiences and Challenges in Implementing Adaptive Bitrate Multimedia Streaming for Live Multimedia Content**
- 9.17. Jovanović Nenad, Milošević Milena, Teslić Nikola, Maruna Tomislav: **Predlog koncepta preporuke HbbTV aplikacija i njihovog sadržaja korisnicima**
- 9.18. Jovanović Nenad, Vukobrat Violeta, Peić Tukuljac Helena, Velikić Ivan: **One solution of a cloud based DTV extended data provider**

**СЕКЦИЈА 10: СОФТВЕРСКИ АЛАТИ И АПЛИКАЦИЈЕ (САА)  
SOFTWARE TOOLS AND APPLICATIONS (STA)**

**САА 1 – Четвртак 27.11.2014. године у 08:30 - сала 1b/0  
STA 1 – Thursday , 27.11.2014, 08:30 – Hall 1b/0**

***Programiranje oblaka / Cloud computing***

**Председавајући: МЛАДЕН ВЕИНОВИЋ и БОРИСЛАВ ЂОРЂЕВИЋ**

**Chairpersons: MLADEN VEINOVIĆ and BORISLAV DJORDJEVIĆ**

- 10.1. Piija Bašičević, Nenad Četić, Miroslav Popović, Momčilo Krunic: **A Light-weight SIP-based Execution Management Service for Bag-of-tasks Grid System**
- 10.2. Zlatko Ristovski, Igor Mishkovski, Sasho Gramatikov, Sonja Filiposka: **Parallel Implementation of the Modified Subset Sum Problem in CUDA**
- 10.3. Ervin Djogić, Novica Nosović: **Service Level Agreement (SLA) in a Cloud Based Information Systems**
- 10.4. Borislav Djordjević, Slobodan Jovanović, Valentina Timčenko: **Cloud Computing in Amazon and Microsoft Azure Platforms: Performance and Service Comparison**
- 10.5. Marjan Gusev, Magdalena Kostoska, Sasko Ristov: **Cloud P-TOSCA Porting of N-tier Applications**
- 10.6. Ana Kovačević: **Cyberbullying Detection Using Web Content Mining**
- 10.7. Miloš Ilić, Petar Spalević, Mladen Veinović: **Inverted Index Search in Data Mining**

**САА 2 - Уторак, 25.11.2014. године у 17:00 - сала 1b/0  
STA 2 - Tuesday, 25.11.2014, 17:00 – Hall 1b/0**

***Sistemi u zdravstvu / Health Care Systems***

**Председавајући: МИРЈАНА ПОПОВИЋ и МИЛОШ ЦВЕТАНОВИЋ**

**Chairpersons: MIRJANA POPOVIĆ and MILOŠ CVETANOVIĆ**

- 10.8. Ognjen Ridić, Semsudin Plojović, Senad Bušatlić, Goran Ridić: **Elektronski medicinski rekord (EMR) kao jedan od prioriteta inovacijskog menadžmenta u zdravstvu**
- 10.9. Ioannis Stylios, Vasileios Vlachos, Iosif Androulidakis: **Performance Comparison of Machine Learning Algorithms for Diagnosis of Cardiotocograms with Class Inequality**
- 10.10. Marko Đurović, Milica Janković, Ana Koljević Marković: **Semiautomatska lokalizacija paratiroidnih tumora na dinamskim sestamibi scintigramima**
- 10.11. Aleksandar Milenković, Dragan Janković, Petar Rajković, Marija Stojković, Aleksandar Veljanovski: **Softverski modul za menadžment medikamenata i njegova integracija sa MIS-om**
- 10.12. Haris Hasanbegović, Novica Nosović: **Evaluation of Typical Transaction Based Information Systems Response Time – Lessons Learned**
- 10.13. Marjan Gusev, Sasko Ristov, Pano Gushev, Goran Velkoski: **Alert Notification as a New Model of Internet-based Transactions**
- 10.14. Milan Pandurov, Ivan Lazarević, Roman Pavlović, Nikola Smiljković: **Unified Device Access in Home Automation Environment**

**CAA 3 - Среда, 26.11.2014. године у 8:30 - сала 1b/0**  
**STA 3 - Wednesday, 26.11.2014, 8:30 – Hall 1b/0**

***Ugrađeni sistemi / Embedded Systems***

**Председавајући: СИНИША РАНЂИЋ и ЈЕЛЕНА КОВАЧЕВИЋ**

**Chairpersons: SINIŠA RANĐIĆ and JELENA KOVAČEVIĆ**

- 10.15. Bojan Stankić, Darko Kojić, Miloš Cvetanović, Miloš Dukić, Saša Stojanović, Zaharije Radivojević: **ERLE: Embedded Run Length image Encoding**
- 10.16. Dijana Jagodić, Dejan Vujičić, Uroš Pešović, Siniša Randić: **Koncept protoniti kod embedded sistema**
- 10.17. Dejan Bokan, Miodrag Đukić, Miroslav Popović, Nenad Četić: **Adjustment of GCC Compiler Frontend for Embedded Processors**
- 10.18. Vladan Skoko, Branislav Atagić, Nemanja Isakov: **Comparative Realization of IEC 60870-5 Industrial Protocol Standards**
- 10.19. Nikola Bežanič, Radivoje Djurić, Ivan Popović: **Power Management in Service-oriented Smart Transducers Network**
- 10.20. Aleksandra Lekić: **Automated DC-DC Converters Symbolic State-Space Model Generation by the Use of Free Software**
- 10.21. Martin Čalasan, Radoje Džankić, Sanja Bauk, Slavica Perovich: **N-components' R diode circuits analysis by Special Trans Functions Theory**

**CAA 4 - Среда, 26.11.2014. године у 11:00 - сала 1b/0**  
**STA 4 - Wednesday, 26.11.2014, 11:00 – Hall 1b/0**

***Multimedija / Multimedia***

**Председавајући: НЕНАД ГРБАНОВИЋ и ДРАЖЕН ДРАШКОВИЋ**

**Chairpersons: NENAD GRBANOVIĆ and DRAŽEN DRAŠKOVIĆ**

- 10.22. Bojan Banjac, Maja Petrović, Branko Malešević: **Visualization of Weber's Curves and Surfaces with Applications in some Optimization Problems**
- 10.23. Roland Szabó, Aurel Gontean: **Image Acquisition with Linux on FPGA**
- 10.24. Bojan Trifunović, Veljko Mihailović, Nemanja Ignjatov, Rade Simikić, Ivan Velikić: **Realizacija okruženja za dinamičko prevođenje i izvršavanje TR-069 agentskog servisa za digitalne televizijske prijemnike sa Android OS**
- 10.25. Milena Milošević, Mario Radonjić, Boris Mlikota, Tomislav Maruna: **One Implementation and Design of HbbTV Framework for Android based DTV Applications**
- 10.26. Áron Virginas-Tar, Marius Baba, Vasile Gui, Dan Pescaru, Ionel Jian: **Vehicle Counting and Classification for Traffic Surveillance using Wireless Video Sensor Networks**
- 10.27. Miroslav Lutovac, Aleksandra Lutovac: **Vickrey Auction Game as Mathematica Application**
- 10.28. Nenad Saković: **WebCall – webco servis za integraciju weba i telefonije na primeru Sellex.rs web market platforme – Case Study**

**CAA 5 - Среда, 26.11.2014. године у 14:30 - сала 1b/0**  
**STA 5 - Wednesday, 26.11.2014, 14:30 – Hall 1b/0**

**Edukacija / Education**

**Председавајући: САША СТОЈАНОВИЋ и СУЗАНА МАРКОВИЋ**

**Chairperson: SAŠA STOJANOVIĆ and SUZANA MARKOVIĆ**

- 10.29. Valentina Nejković, Milorad Tošić: **Wiki Based E-learning Platform for Academic Courses, *Invited Paper***
- 10.30. Žarko Stanisljević, Dražen Drašković, Marko Mišić: **Primena Moodle platforme u nastavi računarske tehnike i informatike**
- 10.31. Sofija Purić, Uroš Romić, Boško Nikolić: **Realizacija Android aplikacije za potrebe zaposlenih na fakultetu**
- 10.32. Branislav Atlagić, Mita Čokić, Mihalj Šagi: **Concept of a SCADA System Designed for Education and Research**
- 10.33. Miroslava Ignjatović, Dragan Bojić, Bojan Furlan, Igor Tartalja: **Potencijal tehnike pronalazanja znanja za automatsko sastavljanje testova**
- 10.34. Marko Mišić, Slavko Gajin: **Korišćenje Mininet okruženja za simulaciju softverski definisanih mreža**
- 10.35. Alexander Filippou, Dimitrios Karras: **On the Efficient Design of a Generic Emulator Module towards Precise Simulation of Wireless Sensor Networks Using XML**

**CAA 6 - Среда, 26.11.2014. године у 17:00 - сала 1b/0**  
**STA 6 - Wednesday, 26.11.2014, 17:00 – Hall 1b/0**

**Zaštita sistema / Security Systems**

**Председавајући: ВИОЛЕТА ТОМАШЕВИЋ и ЖАРКО СТАНИСАВЉЕВИЋ**

**Chairperson: VIOLETA TOMAŠEVIĆ and ŽARKO STANISAVLJEVIĆ**

- 10.36. Christoforos Christoforidis, Vasileios Vlachos, Iosif Androulidakis: **A Crowdsourcing Approach to Protect Against Novel Malware Threats**
- 10.37. Dijana Vuković, Zoran Djurić, Danilo Gligoroski: **CryptoCloak - Improvement Proposal Implementation**
- 10.38. Dimitris Liparas, Ioannis Totlis, Lefteris Angelis, Ioannis Stamelos: **Predicting Fault-Prone Software Components in Telecommunication Assembly Patches with Imbalanced Datasets**
- 10.39. Branko Savić, Živoslav Adamović, Božo Ilić, Goran Grujić: **Analiza uticaja termografskih dijagnostičkih kontrola na porast nivoa pouzdanosti računarskih sistema**
- 10.40. Momčilo Krunić, Nenad Četić, Miroslav Popović, Ivan Považan: **Unit Test Case Generator and Automated Regression Testing in Terms of Firmware Development**
- 10.41. Davor Šutić, Branislav Atlagić: **Performance Evaluation of Various Bailey–Borwein–Plouffe-type Formulae**
- 10.42. Branimir Kovačević, Marko Kovačević, Dejan Stefanović, Vukota Peković: **Scenario-Based Set-Top Box testing**
- 10.43. Marko Kovačević, Branimir Kovačević, Vukota Peković, Dejan Stefanović: **Framework for Automatic Testing of Set-Top Boxes**



**CAA 7 - Четвртак, 27.11.2014. године у 8:30 – сала 1b/0**  
**STA 7 - Thursday, 27.11.2014, 8:30 – Hall 1b/0**

**Softverski sistemi / Software Systems**

**Председавајући: БОЖИДАР РАДЕНКОВИЋ и ЗАХАРИЈЕ РАДИВОЈЕВИЋ**

**Chairperson: BOŽIDAR RADENKOVIĆ and ZAHARIJE RADIVOJEVIĆ**

- 10.44. Žarko Mijailović, Dragan Milićev: **CAPWISE – A Domain-Specific Language for Developing Graphical User Interfaces, *Invited Paper***
- 10.45. Slavko Radonić, Miodrag Đukić, Miroslav Popović, Nenad Četić: **Jedno rešenje kompajlerske optimizacije za premeštanje invarijantnog koda van petlje**
- 10.46. Miroslav Popović, Branislav Kordić: **PSTM: Python Software Transactional Memory**
- 10.47. Pero Škorput, Bia Mandžuka, Miroslav Vujić: **Razvoj kooperativnih multimodalnih putnih vodiča**
- 10.48. Bisera Ivanovska, Saško Ristov, Marjan Gusev, Boro Jakimovski: **Application for Modern Energy Efficient Data Center**
- 10.49. Nemanja Ignjatov, Milan Bjelica, Mića Četković, Saša Radovanović: **Integration of Lua script interpreter for automatic device configuration using TR-069**
- 10.50. Nebojša Denić, Zoran Nešić, Miroslav Radojičić: **Software Projects Quality Management in the Function of ERP System Implementation**

**CAA 8 – Уторак , 25.11.2014. године у 14:30 - сала 1b/0**  
**STA 8 - Tuesday, 25.11.2014, 14:30 – Hall 1b/0**

**Algoritmi / Algorithms**

**Председавајући: СТЕВАН МИЛИНКОВИЋ и БОЈАН ФУРЛАН**

**Chairperson: STEVAN MILINKOVIĆ and BOJAN FURLAN**

- 10.51. Dejan Prodanović, Bojan Furlan, Boško Nikolić: **Analiziranje sadržaja tekstova upotrebom ontologije i semantičke sličnosti**
- 10.52. Cristian Perra: **A Low Computational Complexity Blockiness Estimation based on Spatial Analysis**
- 10.53. Stipe Čelar, Mili Turić, Linda Vicković: **Method for Personal Capability Assessment in an Agile Teams using Personal Points**
- 10.54. Aleksandar Milinković, Stevan Milinković, Ljubomir Lazić: **Some Experiences in Building IoT Platform**
- 10.55. Nebojša Denić, Zoran Nešić, Miroslav Radojičić, Jasmina Vesić Vasović: **Some Considerations on Business Intelligence Application in Business Improvement**
- 10.56. Kristina Kolić, Saško Ristov, Marjan Gusev: **A model of SaaS e-Business Solution**
- 10.57. Nihad Borovina, Dušanka Bošković, Jasenko Dizdarević, Kenan Bulja, Almir Salihbegović: **Heuristic Based Evaluation of Mobile Services Web Portal Usability**

**СЕКЦИЈА 11: СТУДЕНТСКА СЕКЦИЈА (С)  
STUDENT PAPERS (S)**

**C1 - Уторак, 25.11.2014. године у 17:00 - сала 6/1  
S1 - Tuesday, 25.11.2014, 17:00 – Hall 6/1**

**Председавајућа: МИЛКА ПОТРЕБИЋ и ЈЕЛЕНА ЋЕРТИЋ**

**Chairperson: MILKA POTREBIĆ and JELENA ČERTIĆ**

- 11.1. Nikolić M. Nemanja: **Implementacija eho audio efekta u programskom paketu MATLAB**
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