

**21. ТЕЛЕКОМУНИКАЦИОНИ ФОРУМ**  
***21<sup>th</sup> TELECOMMUNICATIONS FORUM***

**ТЕЛФОР 2013**

***TELFOR 2013***



**ПРОГРАМ**  
***PROGRAM***

**Београд, 26, 27. и 28. новембар 2013.**

**ГОДИНЕ**

***Belgrade, 26, 27 and 28 November 2013***

**Сава центар**

***THE SAVA CENTER***

**WEB АПЛИКАЦИЈА И ЛОГИСТИЧКА ПОДРШКА**

*WEB Application and Logistic*

**Gordan Ružić, RC ETF Beograd**  
**Mirko Kirović, RC ETF Beograd**

**МЕДИЈСКИ СПОНЗОРИ**

*Media Sponsors*

**JISA INFO**  
**INTERNET OGLEDALO**  
**PC PRESS**  
**RADIO TELEVIZIJA SRBIJE**



**ИЗДАВАЧИ:**

*Publishers:*

**ДРУШТВО ЗА ТЕЛЕКОМУНИКАЦИЈЕ - Београд**  
**TELECOMMUNICATIONS SOCIETY - Belgrade**

**АКАДЕМСКА МИСАО - Београд**  
**ACADEMIC MIND - Belgrade**

**Штампа:**

*Printed by:*

**АКАДЕМСКА МИСАО - Београд**  
**ACADEMIC MIND - Belgrade**

## **CONTENT**

## **САДРЖАЈ**

<i>Organizers and Sponsors/ Организатори и донатори</i>	4
<i>Honorary Board/Почасни одбор</i>	7
<i>TELFOR Committees/Одбори ТЕЛФОР-а</i>	8
<i>Time Table</i>	12
<i>Сатница</i>	14
<i>Opening Ceremony/Свечано отварање</i>	16
<i>Commercial Presentations/Комерцијалне презентације</i>	17
<i>Companies Exhibitors/Фирме излагачи</i>	17
<i>Special Sessions for Companies/Посебне секције компанија</i>	18
<i>Technical and Information Sessions</i>	19
<i>Техничке и информационе секције</i>	19
<i>Round Table/Округли сто</i>	19
<i>PTT Museum Exhibition/Изложба ПТТ Музеја</i>	20
<i>Workshop: Development of Leadership Skills</i>	20
<i>Regular and Student Sessions</i>	22
<i>Програм регуларних и студентских секција</i>	22
1. PRS/ПРУ	22
2. TN/ТМ	22
3. RC/ПК	25
4. CS/СПС	26
5. SP/ОС	28
6. AEL/ПЕЛ	30
7. AEM/ПЕМ	32
8. MM/ММ	33
9. STA/САА	35
10. S/C	39
<i>Invited Papers/Радови по позиву</i>	40
<i>Author Index/Индекс аутора</i>	41
<i>Sava Center Floor Plan/План сала у Сава Центру/</i>	

*Organizers and Sponsors /*  
Organizatori i sponzori

*Organizers / Organizatori*

**TELECOMMUNICATIONS SOCIETY, Belgrade**  
**ETF – School of Electrical Engineering, University of Belgrade**  
**IEEE Serbia and Montenegro COM Chapter**

*Sponsors / Donatori*  
(temporary list / privremena lista)

*Special Sponsors / Specijalni donatori*

**“TELEKOM SRBIJA” a.d.**  
VLATACOM d.o.o. – Belgrade

*Main Sponsors / Veliki donatori*

**ERICSSON - Belgrade**  
**ETF – School of Electrical Engineering, University of Belgrade**  
**HUAWEI - Belgrade**  
**IBM – International Business Machines d.o.o. - Belgrade**  
**IRITEL AD - Belgrade**  
**Ministry of Education, Science and Technological Development**  
**Ministry of Foreign and Internal Trade and Telecommunications**  
**NSN – Nokia Solutions and Networks Serbia – Belgrade**  
**Public PTT enterprise “SRBIJA”**  
**RATEL – Republic Agency for Electronic Communications of Serbia**  
**RNIDS – Serbian National Register of Internet Domain Names**  
**Serbia and Montenegro Air Traffic Services SMATSA - Belgrade**  
**TERI ENGINEERING – Belgrade**

***Sponsors and Friends*** / Donatori i prijatelji

**BIT Projekt – Belgrade**  
**IBIS INSTRUMENTS - Belgrade**  
**IEEE Serbia and Montenegro COM Chapter**  
**IEEE Serbia and Montenegro Section**  
**INTRACOM TELEKOM - Belgrade**  
**ROHDE & SCHWARZ Osterreich Ges. m.b.H.**  
**VIP MOBILE – Belgrade**  
**APEX Solutions Technology - Belgrade**  
**MDS Informatički inženjering – Belgrade**

**Друштво за  
телекомуникације  
1992-2013**

**ТЕЛФОР 1993-2013**

Telecommunications  
Society  
1992-2013

TELFOR 1993-2013

## **ПОЧАСНИ ОДБОР**

**Генерални директор "ТЕЛЕКОМ Србија" а.д.  
Генерални директор VLATACOM d.o.o. – Београд  
Министар спољне и унутрашње трговине и телекомуникација Србије  
Министар просвете, науке и технолошког развоја Србије  
Ректор Универзитета у Београду  
Декан Електротехничког факултета у Београду  
Председник ИЕЕЕ секције Србије и Црне Горе  
Генерални директор ЈП ПТТ саобраћаја "Србија"  
Председник Програмског одбора ТЕЛФОР-а  
Председник Организационог одбора ТЕЛФОР-а  
Председник Управног одбора ТЕЛФОР-а**

## **HONORARY BOARD**

***Director General of "TELEKOM Srbija" a.d.  
General Manager of VLATACOM d.o.o. – Belgrade  
Minister of Foreign and Internal Trade and Telecommunications of Serbia  
Minister of Education, Science and Technological Development of Serbia  
Rector of Belgrade University  
Dean of the Faculty of Electrical Engineering in Belgrade  
Chair of IEEE Serbia and Montenegro Section  
Director General of "PTT Serbia"  
Chair of the Scientific Committee of TELFOR 2012  
Chair of the Organizing Committee of TELFOR 2012  
Chair of the Executive Committee of TELFOR 2012***

# TELFOR 2013

## **Committees / Odbori**

### ***Steering Committee / Upravni odbor***

- Prof. Dr Đorđe Paunović, Chair/Predsednik, TS/DT, ETF, Belgrade, Serbia**  
Prof. Dr Branko Kovačević, Dean/Dekan, ETF, Belgrade, Serbia  
Prof. Dr Aleksandar Nešković, Chair/Predsednik, TPC, ETF, Belgrade, Serbia  
Prof. Dr Ljiljana Milić, Chair/Predsednik, Org. Committee, IMP, ETF, Belgrade, Serbia  
Prof. Dr Irini Reljin, Vice Chair/Potpredsednik, TPC, ETF, Belgrade, Serbia  
Prof. Dr Nataša Nešković, Chair IEEE S&M Section, ETF, Belgrade, Serbia

### ***Technical Program Committee (TPC) / Programski odbor***

- Prof. Dr Aleksandar Nešković, Chair/Predsednik, ETF, Belgrade, Serbia**  
**Prof. Dr Irini Reljin, Vice Chair/Potpredsednik, ETF, Belgrade, Serbia**  
Prof. Dr Vlado Delić, FTN, Novi Sad, Serbia  
Prof. Dr Dušan Drajić, ETF, Belgrade, Serbia  
Academician Prof. Dr Antonije Đorđević, SANU, ETF, Belgrade, Serbia  
Prof. Dr Jovan Đorđević, ETF, Belgrade, Serbia  
Prof. Dr Nataša Gospić, SF, Belgrade, Serbia  
Prof. Dr Dejan Gvozdić, ETF, Belgrade, Serbia  
Mr Nenad Krajnović, ETF, Belgrade, Serbia  
Prof. Dr Miroslav Lutovac, Singidunum University, Belgrade, Serbia  
Prof. Dr Miomir Mijić, ETF, Belgrade, Serbia  
Prof. Dr Ljiljana Milić, IMP, ETF, Belgrade, Serbia  
Prof. Dr Nataša Nešković, ETF, Belgrade, Serbia  
Prof. Dr Zorica Nikolić, EF, Niš, Serbia  
Prof. Dr Đorđe Paunović, ETF, Belgrade, Serbia  
Prof. Dr Predrag Pejović, ETF, Belgrade, Serbia  
Prof. Dr Vladimir Petrović, ETF Belgrade, Serbia  
Prof. Dr Grozdan Petrović, ETF, Belgrade, Serbia  
Prof. Dr Miodrag Popović, ETF, Belgrade, Serbia  
Prof. Dr Jelica Protić, ETF, Belgrade, Serbia  
Prof. Dr Branimir Reljin, ETF, Belgrade, Serbia  
Prof. Dr Abdalla Abdulgader, Univ., Libya  
Prof. Dr Đurađ Budimir, Univ. Westminster, London, UK  
Prof. Dr Zoran Veljović, ETF, Podgorica, Montenegro  
Prof. Dr Branka Vučetić, Univ. Sidnej, Australia  
Prof. Dr Octavian Fratu, Univ. Politehnica, Bucharest, Romania  
Prof. Dr Liljana Gavrilovska, UKIM, Skopje, Makedonia  
Dr Alexander Gelman, NETovarions group, IEEE ComSoc, USA  
Dr Apostolos Georgiadis, CTTC, Barcelona, Spain  
Prof. Dr Simona Halunga, Univ. Politehnica, Bucharest, Romania  
Prof. Dr Toni Janevski, UKIM, Skopje, Makedonia  
Prof. Dr Venceslav Kafedžiski, UKIM, Skopje, Makedonia  
Prof. Dr Ivo Kostić, ETF, Podgorica, Montenegro



Dr George Koutitas, International Hellenic Univeristy, Thessaloniki, Greece  
Prof. Dr Rolf Kraemer, IHP Microelectronics, Frankfurt, Germany  
Dr Miloš Krstić, IHP Microelectronics, Frankfurt, Germany  
Prof. Dr Milica Pejanović-Đurišić, ETF, Podgorica, Montenegro  
Prof. Dr Igor Radusinović, ETF, Podgorica, Montenegro  
Prof. Dr Zbynek Raida, Dept. Radio El., Brno, Czech Republic  
Prof. Dr Kurt Richter, Tech. Univ., Graz, Austria  
Prof. Dr Sherif Welsen Shaker, Kuang-Chi Institute of Adv. Technology, Shenzhen, China  
Prof. Dr Hannes Topfer, Tech. Univ., Ilmenau, Germany  
Prof. Dr. Ion Tutanescu, Fac. ECC, Univ. of Pitesti, Romania  
As. Prof. Dr Matej Zajc, Univ. Ljubljana, Slovenia

### ***Scientific Committee / Naučni odbor***

**Prof. Dr Ljiljana Milić, IMP, ETF, Belgrade, Serbia**  
**Prof. Dr Dušan Drajić, ETF, Belgrade, Serbia**  
Filip Banković, Telekom Serbia  
As. Prof. Dr Milan Bjelica, ETF Belgrade, Serbia  
Dr Dragan Bogojević, TS, Belgrade, Serbia  
As. Prof. Dr Dragan Bojić, ETF Belgrade, Serbia  
Prof. Dr Zoran Bojković, SF, Belgrade, Serbia  
Prof. Dr Đurađ Budimir, Univ. Westminster, London, UK  
Prof. Dr Vlado Delić, FTN, Novi Sad, Serbia  
Dr Dejan Drajić, Iritel, ETF, Belgrade, Serbia  
Prof. Dr Jovan Đorđević, ETF, Belgrade, Serbia  
Academician Prof. Dr Antonije Đorđević, ETF, SANU, Belgrade, Serbia  
Ljiljana Đorđević, Telekom Serbia  
Prof. Dr Goran Đorđević, EF Niš, Serbia  
Milivoje Žunić, TS, Belgrade, Serbia  
Prof. Dr Octavian Fratu, Univ. Politehnica, Bucharest, Romania  
Prof. Dr Liljana Gavrilovska, UKIM, Skopje, Makedonia  
Dr Alexander Gelman, IEEE ComSoc, USA  
Dr Apostolos Georgiadis, CTTC, Barcelona, Spain  
Prof. Dr Nataša Gospić, SF, Belgrade, Serbia  
Prof. Dr Dejan Gvozdić, ETF, Belgrade, Serbia  
Prof. Dr Simona Halunga, Univ. Politehnica, Bucharest, Romania  
As. Prof. Dr Predrag Ivaniš, ETF Belgrade, Serbia  
Prof. Dr Toni Janevski, UKIM, Skopje, Makedonia  
As. Prof. Dr Milan Janković, RATEL, Serbia  
Mr Mihailo Jovanović, PTT Serbia  
Prof. Dr Venceslav Kafedžiski, UKIM, Skopje, Makedonia  
Prof. Dr Vladimir Katić, IEEE, FTN, Novi Sad, Serbia  
Dragan M. Kovačević, IRITEL, Belgrade, Serbia  
Dr Milan Đ. Kovačević, SAGA, Belgrade, Serbia  
Prof. Dr Ivo Kostić, ETF, Podgorica, Montenegro  
Dr George Koutitas, International Hellenic Univeristy, Thessaloniki, Greece  
Prof. Dr Rolf Kraemer, IHP Microelectronics, Frankfurt, Germany  
Dr Miloš Krstić, IHP Microelectronics, Frankfurt, Germany  
Prof. Dr Husnija Kurtović, ETF Belgrade, Serbia  
Prof. Dr Borivoj Lazić, ETF, Belgrade, Serbia  
As. Prof. Dr. Josip Lorincz, FESB, Univ. of Split, Croatia

Prof. Dr Miroslav Lutovac, SINGIDUNUM University, Belgrade, Serbia  
 Prof.dr Veljko Milutinović, ETF Belgrade, Serbia  
 Prof. Dr Miomir Mijić, ETF, Belgrade, Serbia  
 Prof. Dr Bratislav Milovanović, EF, Niš, Serbia  
 Prof. Dr Vladimir Milošević, FTN, Novi Sad, Serbia  
 Ivan Nador, Telecommunications Society, Belgrade  
 Zorica Nestorović, Telekom Serbia  
 Prof. Dr Aleksandar Nešković, ETF, Belgrade, Serbia  
 Prof. Dr Nataša Nešković, ETF, Belgrade, Serbia  
 Prof. Dr Boško Nikolić, ETF Belgrade, Serbia  
 Prof. Dr Zorica Nikolić, EF, Niš, Serbia  
 Prof. Dr Đorđe Paunović, ETF, Belgrade, Serbia  
 Prof. Dr Milica Pejanović-Đurišić, ETF, Podgorica, Montenegro  
 Prof. Dr Vladimir Petrović, ETF Belgrade, Serbia  
 Prof. Dr Grozdan Petrović, ETF, Belgrade, Serbia  
 Dr Predrag Petrović, IRITEL, Belgrade, Serbia  
 Academician Prof. Dr Dejan Popović, ETF, SANU, Belgrade, Serbia  
 Prof. Dr Mirjana Popović, ETF, Belgrade, Serbia  
 Prof. Dr Miodrag Popović, ETF, Belgrade, Serbia  
 As. Prof. Dr Milka Potrebić, ETF, Belgrade, Serbia  
 Prof. Dr Jelica Protić, ETF, Belgrade, Serbia  
 Prof. Dr Jovan Radunović, RATEL, ETF, Belgrade, Serbia  
 Prof. Dr Igor Radusinović, ETF, Podgorica, Montenegro  
 Prof. Dr Zbynek Raida, Dept. Radio El., Brno, Czech Republic  
 Prof. Dr Branimir Reljin, ETF, Belgrade, Serbia  
 Prof. Dr Irini Reljin, ETF, Belgrade, Serbia  
 Prof. Dr Kurt Richter, Tech. Univ., Graz, Austria  
 As. Prof. Dr Mirjana Simić, ETF, Belgrade, Serbia  
 Momčilo Simić, Telecommunications Society, Belgrade  
 As. Prof. Dr Lazar Saranovac, ETF, Belgrade, Serbia  
 Prof. Dr Sherif Welsen Shaker, Kuang-Chi Institute of Adv. Technology, Shenzhen, China  
 Milan Simić, Telekom Serbia  
 Prof. Dr Nenad Simić, ETF, Belgrade, Serbia  
 Prof. Dr Aleksandra Smiljanić, ETF, Belgrade, Serbia  
 As. Prof. Dr Mirjana Stojanović, SF, ETF, Belgrade, Serbia  
 Prof. Dr Zlatan Stojković, ETF, Belgrade, Serbia  
 Mr Ivan Telečki, TS, Novi Sad, Serbia  
 Prof. Dr Miodrag Temerinac, FTN, Novi Sad, Serbia  
 Prof. Dr Hannes Topfer, Tech. Univ., Ilmenau, Germany  
 Prof. Dr Dejan Tošić, ETF, Belgrade, Serbia  
 Prof. Dr Željko Trpovski, FTN Novi Sad, Serbia  
 Prof. Dr Zoran Veljović, ETF, Podgorica, Montenegro  
 Prof. Dr Branka Vučetić, Univ. Sidnej, Australija  
 As. Prof. Dr Matej Zajc, Univ. Ljubljana, Slovenia

### ***Organizing Committee / Organizacioni odbor***

**Prof. Dr Ljiljana Milić, Chair/Predsednik, ETF, IMP, Belgrade, Serbia**  
 Dr Jelena Čertić, Technical Secretary, ETF, Belgrade, Serbia  
 Prof. Dr Dušan Drajić, ETF, Belgrade, Serbia  
 Prof. Dr Miroslav Lutovac, SINGIDUNUM University, Belgrade, Serbia

Ivan Nador, Telecommunications Society, Belgrade, Serbia  
Danka Despotović, ETF Belgrade, Serbia  
As. Prof. Dr Milan Bjelica, ETF, Belgrade, Serbia  
Mr Nenad Krajnović, ETF, Belgrade, Serbia  
Mladen Koprivica, ETF, Belgrade, Serbia  
Danka Milenković, TS, Belgrade, Serbia

### ***Internet support / Internet podrška***

Gordan Ružić, RC ETF, Belgrade, Serbia  
Mirko Kirović, RC ETF, Belgrade, Serbia

### ***Press&Media / Štampa i mediji***

Zorica Panić, TS, Belgrade, Serbia  
Danka Despotović, ETF, Belgrade, Serbia

### ***Section Coordinators / Koordinatori sekcija***

Prof. Dr Vlado Delić, Policy, Regulatory Aspects and Services in Telecommunications  
Prof. Dr Grozdan Petrović, Telecommunications Networks  
Mr. Nenad Krajnović, Telecommunications Networks  
Prof. Dr Aleksandar Nešković, Radio Communications  
Prof. Dr Dušan Drajić, Communications Systems  
Prof. Dr Zorica Nikolić, Communications Systems  
Prof. Dr Branimir Reljin, Signal Processing  
Prof. Dr Dejan Gvozdić, Optical Communications  
Prof. Dr Miodrag Popović, Applied Electronics  
Prof. Dr Vladimir Petrović, Applied Electromagnetics  
Prof. Dr Irini Reljin, Multimedia  
Prof. Dr Miomir Mijić, Multimedia  
Prof. Dr Miroslav Lutovac, Software Tools and Applications  
Prof. Dr Jovan Đorđević, Software Tools and Applications  
Prof. Dr Nataša Nešković, Student Section

**TIME TABLE**  
**Telecommunications Forum TELFOR 2013**

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

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

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

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

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

Room Time	3/1	4/1	5/1	6/1	
14:30-16:45	CS 1 4.1-4.6	Commercial presentations	MM 1 8.1-8.8	SP 1 5.1-5.7	
17:00-19:15	CS 2 4.7-4.13		MM 2 8.9-8.16	SP 2 5.8-5.14	

Room Time	1/0	1a/0	1b/0	Japan salon/1	9a/0
14:30-16:45	SPECIAL SESSIONS FOR COMPANIES	PRS 1 1.1-1.10	STA 1 9.1-9.8	TECHNICAL & INFORMATION PRESENTATIONS	IEEE
17:00-19:15			STA 2 9.9-9.14		

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

Room Time	3/1	4/1	5/1	6/1	
8:30-10:45	CS 3 4.14-4.20	Commercial presentations	RC 1 3.1-3.8	SP 3 5.15-5.21	
11:00-13:15	AEL 1 6.1-6.7		RC 2 3.9-3.17	SP 4 5.22-5.29	

Room Time	1/0	1a/0	1b/0	Japan Salon/1	9a/0
8:30-10:45	SPECIAL SESSIONS FOR COMPANIES	TN 1 2.1-2.8	STA 3 9.15-9.21	TECHNICAL & INFORMATION PRESENTATIONS	Workshop „Leadership Skills“ Prof. Kurt Richter
11:00-13:15		TN 2 2.9-2.15	STA 4 9.22-9.29		

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

Room Time	3/1	4/1	5/1	6/1	
14:30-16:45	AEL 2 6.8-6.15	Commercial presentations	MM 3 8.17-8.25	AEM 1 7.1-7.6	
17:00-19:15	CS 4 4.21-4.27		AEM 2 7.7-7.12		

Room Time	1/0	1a/0	1b/0	Japan salon/1	9a/0
14.30-17.00	SPECIAL SESSIONS FOR COMPANIES	TN 3 2.16-2.22	STA 5 9.30-9.36	TECHNICAL & INFORMATION PRESENTATIONS	S 1 10.1-10.6
17.00-19.15		TN 4 2.23-2.29	STA 6 9.37-9.43		S 2 10.7-10.14

## 28<sup>nd</sup> November, Thursday morning

Room Time	3/1	4/1	5/1	6/1	
8:30-10:45		Commercial presentations	AEL 3 6.16-6.23		
11:00-13:15	CS 5 4.28-4.34		AEL 4 6.24-6.30	AEM 3 7.13-7.17	

Room Time	1/0	1a/0	1b/0	Japan salon/1	9a/0
8:30-10:45		TN 5 2.30-2.36	STA 7 9.44-9.50		
11:00-13.15			STA 8 9.51-9.58		

Section 1	Policy, Regulatory Aspects and Services in Com.	Room 1a/0	PRS 1
Section 2	Telecommunications Networks	Room 1a/0	TN 1-6
Section 3	Radio Communications	Room 5/1	RC 1-2
Section 4	Communications Systems	Room 3/1	CS 1-4
Section 5	Signal Processing	Room 6/1	SP 1-4
Section 6	Applied Electronics	Room 3/1	AEL 1-2
Section 6	Applied Electronics	Room 5/1	AEL 3-4
Section 7	Applied Electromagnetics	Room 6/1	AEM 1-3
Section 8	Multimedia	Room 5/1	MM 1-3
Section 9	Software Tools and Applications	Room 1b/0	STA 1-8
Section 10	Student Papers	Room 9a/0	S 1-2

- Room 1/0 – Special Sessions for Companies, international and domestic companies and institutions presentations
- Japan Salon/1 - Technical and Information Presentations (see the detailed program)
- Rooms 4/1 - Commercial Presentations (see the detailed program)
- Sava Center Main Hall – Registration desk, Exhibitions (see the detailed program)
- Room 9/0 – Public Relation Room, Meetings, Workshop

**САТНИЦА**  
**Телекомуникациони форум ТЕЛФОР 2013**

**26. новембар, уторак пре подне**

9:00 Почетак регистрације учесника, Регистрациони пулт, хол Сава центра  
10:30 – 12:00 **СВЕЧАНО ОТВАРАЊЕ** - Сале 1 + 1а + 1b /0  
12:00 – 13:00 Коктел добродошлице, Ресторан Сава центра

**26. новембар, уторак после подне**

Сала Време	3/1	4/1	5/1	6/1	
14:30-16:45	СПС 1 4.1-4.6	Комерцијалне презентације	ММ 1 8.1-8.8	ОС 1 5.1-5.7	
17:00-19:15	СПС 2 4.7-4.13		ММ 2 8.9-8.16	ОС 2 5.8-5.14	

Сала Време	1/0	1а/0	1б/0	Јапански салон/1	9а/0
14:30-16:45	ПОСЕБНЕ СЕКЦИЈЕ КОМПАНИЈА	ПРУ 1 1.1-1.10	САА 1 9.1-9.8	ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ	IEEE
17:00-19:15			САА 2 9.9-9.14		

**27. новембар, среда пре подне**

Сала Време	3/1	4/1	5/1	6/1	
8:30-10:45	СПС 3 4.14-4.20	Комерцијалне Презентације	РК 1 3.1-3.8	ОС 3 5.15-5.21	
11:00-13:15	ПЕЛ 1 6.1-6.7		РК 2 3.9-3.17	ОС 4 5.22-5.29	

Сала Време	1/0	1а/0	1б/0	Јапански салон/1	9а/0
8:30-10:45	ПОСЕБНЕ СЕКЦИЈЕ КОМПАНИЈА	ТМ 1 2.1-2.8	САА 3 9.15-9.21	ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ	Радионица „Leadership Skills“ Prof. Kurt Richter
11:00-13:15		ТМ 2 2.9-2.15	САА 4 9.22-9.29		

## 27. новембар, среда после подне

Сала Време	3/1	4/1	5/1	6/1	
14:30-16:45	ПЕЛ 2 6.8-6.15	Комерцијалне Презентације	ММ 3 8.17-8.25	ПЕМ 1 7.1-7.6	
17:00-19:15	СПС 4 4.21-4.27			ПЕМ 2 7.7-7.12	

Сала Време	1/0	1a/0	1b/0	Јапански салон/1	9a/0
14.30-17.00	ПОСЕБНЕ СЕКЦИЈЕ КОМПАНИЈА	ТМ 3 2.16-2.22	САА 5 9.30-9.36	ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ	С 1 10.1-10.6
17.00-19.15		ТМ 4 2.23-2.29	САА 6 9.37-9.43		С 2 10.7-10.14

## 28. новембар, четвртак пре подне

Сала Време	3/1	4/1	5/1	6/1	
8:30-10:45		Комерцијалне презентације	ПЕЛ 3 6.16-6.23		
11:00-13:15	СПС 5 4.28-4.34		ПЕЛ 4 6.24-6.30	ПЕМ 3 7.13-7.17	

Сала Време	1/0	1a/0	1b/0	Јапански салон/1	9a/0
8:30-10:45		ТМ 5 2.30-2.36	САА 7 9.44-9.50		
11:00-13.15			САА 8 9.51-9.58		

Секција 1	Политика, регулатива и услуге у телеком	Сала 1a/0	ПРУ 1
Секција 2	Телекомуникационе мреже	Сала 1a/0	ТМ 1-6
Секција 3	Радио-комуникације	Сала 5/1	РК 1-2
Секција 4	Системи преноса сигнала	Сала 3/1	СПС 1-4
Секција 5	Обрада сигнала	Сала 6/1	ОС 1-4
Секција 6	Примењена електроника	Сала 3/1	ПЕЛ 1,2
Секција 6	Примењена електроника	Сала 5/1	ПЕЛ 3,4
Секција 7	Примењена електромагнетика	Сала 6/1	ПЕМ 1-3
Секција 8	Мултимедија	Сала 5/1	ММ 1-3
Секција 9	Софтверски алати и апликације	Сала 1b/0	САА 1-8
Секција 10	Студентска секција	Сала 9a/0	С 1-2

- Сала 1/0 – Посебне секције водећих домаћих и интернационалних компанија и институција (видети детаљан програм у наставку)
- Јапански салон/1, – Техничке и информационе презентације (видети детаљан програм у наставку)
- Сале 4/1 - Комерцијалне презентације (видети детаљан програм у наставку)
- Централни хол Сава центра – Регистрациони пулт, изложбе (видети детаљан програм у наставку)
- Сала 9/0 – Контакт сала, састанци, радионица

# TELFOR 2013

## **СВЕЧАНО ОТВАРАЊЕ** - *Opening Ceremony*

Уторак 26.11.2013. године, 10:30 часова

*Tuesday 26<sup>th</sup> November, 2012, 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*

**Излагање по позиву** - *Invited Presentation*

*Hans Ovesen*

*VP Industry Relations Business Unit Networks*

*ERICSSON*

**„MOBILE BROADBAND A TECHNOLOGY DRIVING  
GROWTH AND BUILDING ECONOMIES “**

**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
	IEEE SERBIA & MONTENEGRO	Registracioni pult <i>Registration Desk</i>
	AKADEMSKA MISAO	Registracioni pult <i>Registration Desk</i>
1	IRITEL AD	A2
2	ENEL PS	A3
3	TELEKOM SRBIJA AD	P5
4	ROHDE & SCHWARZ	D1
5	GMB Automatik	E1
6	KOVING	P1
7	CIP-NETWORKS d.o.o.	P3
8	ALGOTECH d.o.o.	P4
9	VLATACOM	F
10	London School of Commerce	A4
11	First Telecom ltd	A5
12	Phoneco	A6
13	Impuls telekomunikacije d.o.o.	A7
14	MAKSNET d.o.o.	A8
15	SAT TRAKT	C1

## **COMMERCIAL PRESENTATIONS**

### **КОМЕРЦИЈАЛНЕ ПРЕЗЕНТАЦИЈЕ**

Компанија <i>Company</i>	Дан <i>Day of the week</i>	Датум <i>Date</i>	Време <i>Time</i>	Сала <i>Room</i>
ENELPS	Уторак/Tuesday	26.11.	13:00-13:45	4/1
IRITEL	Уторак/Tuesday	26.11.	14:00-14:45	4/1
NAJNOVIJA TEHNIČKO-TEHNOLOŠKA REŠENJA - OTP10G OTN/DWDM optička transportna platforma + Sistem za efikasno korišćenje alternativnih izvora energije				
Algotech	Уторак/Tuesday	26.11.	15:00-15:45	4/1
First Telecom ltd	Среда/Wednesday	27.11.	09:00-10:45	4/1
Rohde-Schwarz	Среда/Wednesday	27.11.	11:00-11:45	4/1
Mr. Damir Zibrat , Analiza principa rada digitalnih storage osciloskopa nove generacije i njihova primena u telekomunikacijama"				
SAT TRAKT	Среда/Wednesday	27.11.	12:00-13:45	4/1
SIAE Microelettronica, Milano &				
IRITEL a.d. Beograd	Среда/Wednesday	27.11.	14:00-14:45	4/1
Microwave/Millimeter-wave Radio for Point-to-Point applications				
First Telecom ltd & HUGES	Четвртак/Thursday	28.11.	11:00-11:45	4/1

SPECIAL EVENTS PROGRAM  
**ПРОГРАМ ПОСЕБНИХ ДОГАЂАЈА**

**MAIN HALL 1/0 / САЛА 1/0**

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

*November 26, Tuesday afternoon / 26. Новембар, уторак после подне*

**14:00-14:55** VLATACOM d.o.o.

- *Topic/Тема:* **Razvoj i trendovi u oblastima elektronske uprave i bezbednosti**  
*Presenter/Предавач:* **Dr Miloš Borenović, dipl. ing., VLATACOM**

**15:00-15:55** NOKIA SOLUTIONS AND NETWORKS Serbia

- *Topic/Тема:* **Technology Vision 2020**  
*Presenter/Предавач:* **Francesca Sartori, NSN (in English)**
- *Topic/Тема:* **Liquid Application**  
*Presenter/Предавач:* **Alessandro di Salvo, NSN (in English)**

**16:00-16:55** VIP MOBILE

- *Topic/Тема:* **Uvođenje 100G koherentne tehnologije u DWDM transportnoj mreži  
Vip mobile i Telekom Austrija Grupe**  
*Presenter/Predavač:* **Ranko Drobnjak, VIP mobile**

*November 27, Wednesday morning / 27. Новембар, среда пре подне*

**10:00-10:55** IBIS INSTRUMENTS

*Topic/Тема:* **Big data – big challenge and big opportunity for Telco operators in the new  
age of our Industry**

*Presenter/Predavač:* **Novica Ninić, Ibis Instruments (in English or Serbian)**

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

- *Topic/Тема:* **Na korak od all IP mreže**  
*Presenters/Предавачи:* **Nemanja Ognjanović, TELEKOM Srbija**

**12:00-12:55** IBM

- *Topic/Тема:* **Improving ITSM Practices in Telco Environment / Pобољшање ITSM  
praksi kod telekomunikacionih operatora**  
*Presenter/Предавач:* **Branko Tadić. IBM**

*November 27, Wednesday afternoon / 27. Новембар, среда после подне*

**15:00-15:55 TELEKOM SRBIJA**

- *Topic/Тема: Automatizacija procesa u Cloud-u*  
*Presenters/Предавачи: Borko Drašković, Vladan Nešić, Jasmina Arsić,*  
**TELEKOM Srbija**

## **JAPAN SALON/1 / ЈАПАНСКИ САЛОН/1**

### **TECHNICAL AND INFORMATION PRESENTATIONS** **ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ**

*November 27, Wednesday morning / 27. Новембар, среда пре подне*

**10:00-10:55 APEX SOLUTION TECHNOLOGY**

- *Topic/Тема: BusPlus – Integrisani informacioni sistem za naplatu karata i upravljanje javnim prevozom u Beogradu*  
*Presenters/Предавачи: Rade Vujović, Dragan Travica, Apex Solution Technology*

**11:00-11:55 FAKULTET TEHNIČKIH NAUKA  
UNIVERZITETA U NOVOM SADU**

- *Topic/Тема: Presentacija govornih tehnologija razvijenih za srpski i demonstracija prvih primena*  
*Presenters/Предавачи: Vlado Delić i Darko Pekar, FTN Novi Sad*

Razvoj govornih tehnologija na FTN podržava MPNTR, kao i FID preko AlfaNuma. Uz prezentaciju dostignuća u razvoju govornih tehnologija za srpski i srodne južno-slovenske jezike, biće demonstrirane njihove prve aplikacije kao što su preslušavanje teksta (npr. vesti na internetu) ili govorne komande za mobilne telefone (poruke i pozivi), kućne centrale (pozivi po imenu) i pametne kuće (komande uređajima).

**12:00-12:55 TELEKOM SRBIJA - ELEKTROTEHNIČKI FAKULTET BGD**

- *Topic/Тема: Low EMF Exposure Futures Networks - LEXNET projekat*  
*Presenters/Предавачи: Mladen Koprivica, Milica Popovic, Jelena Milinković,*  
**Stevan Nikšić, Aleksandar Nešković**

**13:00-13 :55 Tehnička prezentacija po pozivu**

- *Topic/Тема: Praksa projektovanja telekomunikacionih mreža i sistema u objektima (3)*  
*Presenter/Предавач: Mirjana Jarić-Ćirić,*

**16:00-18 :00 OKRUGLI STO RATEL-a**

**SISTEM ZA KONTINUALNI AUTOMATSKI MORITORING RADIO-FREKVENCIJSKOG SPEKTRA NA TERITORIJI REPUBLIKE SRBIJE**

Organizator: **Republička agencija za elektronske komunikacije - RATEL**  
Predsedavajući: **Dr Milan Janković, direktor RATEL-a.**  
Uvodničari: **Dr Vladica Tintor, pomoćnik direktora RATEL-a,**  
**Mr Dejan Vujić, Elektrotehnički fakutet Beograd.**

U skladu sa regulatornim obavezama da obezbediti optimalne i realne uslove za razvoj elektronskih komunikacija, kao i uslove za ravnopravno poslovanje svih učesnika na tržištu, kako u tehnološkom tako i u ekonomskom smislu, Republička agencija za elektronske komunikacije (RATEL) preduzima neophodne aktivnosti za optimalno i racionalno korišćenje ograničenih resursa, frekvencija i numeracije, kao i sveobuhvatnu zaštitu interesa svih učesnika na tržištu, u cilju pružanja novih kvalitetnijih ali i jeftinijih usluga.

Kako se procesom prelaska sa analognog na digitalno emitovanje oslobađa deo spektra za nove širokopolasne sevice, to je Republička agencija za elektronske komunikacije započela izgradnju nacionalnog sistema za kontrolu i nadgledanje frekvrncijskog spektra. Navedene aktivnosti imaju za cilj da omoguće izgradnju informaciono-komunikacionog sistema RATEL-a koji treba da unapredi postupak kontrole radio-frekvencijskog spektra, automatizuje i optimizuje postojeće procese planiranja i rada u ovoj delatnosti RATEL-a.

U okviru prezentacije biće predstavljene dosadašnje aktivnosti RATEL-a na izgradnji kontrolno-mernog sistema, organizaciji merne kampanje i razvoju softverskih rešenja kao i planovi za predstojeći period.

***EXHIBITION/ИЗЛОЖБА***

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

***Author/Аутор***

***Željko Sarić, custodian, PTT Museum***

***Жељко Сарић, кустос, Музеј ПТТ***

***Beginnings of Serbian Telephony, Period 1883-1912***

***Почеси српске телефоније, период 1883-1912.***

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

## **Workshop**

### *Development of Leadership Skills*

**Trainer Dr. Kurt Richter**

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

TELFOR 2013

Wednesday, 27.11.2013.

8:30-14:00h

Room 9a/0

(free participation – registration required)

**Language:** *English*  
**Time:** *approx. 5-6 hours*  
**Target Group:** *Engineering students and young engineers*  
**Participants:** *Optimum are 30 participants*

**Objectives:** *The workshop is an introduction into the principles of Leadership skills and comprises topics as leading of groups and teams. A considerable part of the workshop deals with meeting management, conflict styles, conflict management and dealing with difficult people and integration a group.*

**Content:** *The structure of the workshop is interactive where tests and group work combined with discussion and presentation of results have high priority to frontal lecturing. The workshop is modular structured in comprising 8 topics:*

1. Introduction into Leadership
2. Leadership Skills and Attributes of a Leader
3. Leader versus Manager – A Comparison
4. Body Language
5. Engineering Ethics
6. Personal Interactive Skills
7. Meeting Management
8. Conflict Management

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

# 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, 26.11.2013. године у 14:30 - сала 1а/0**  
**PRS 1 - Tuesday, 26.11.2013, 14:30 – Hall 1a/0**

**Председавајући: НАТАША ГОСПИЋ и ВЛАДО ДЕЛИЋ**

**Chairpersons: NATAŠA GOSPIĆ and VLADO DELIĆ**

- 1.1. Alexandros Papanikolaou, Vasileios Vlachos, Anastasios Papathanasiou, Konstantinos Chaikalis, Maria Dimou, Magdalini Karadimou: **Cyber crime in Greece: How bad is it?**
- 1.2. Radunović J. Vladimir: **DDoS – Available Weapon of Mass Disruption**
- 1.3. Renato Filjar, Ševrović Marko, Dadić Ivan: **Positioning and localisation for Location-based services**
- 1.4. A. C. Baktir, Y. C. Kūlahođlu, Ö. Erbay, B. Metin: **Server Virtualization in Information and Communication Technology Infrastructure in Turkey**
- 1.5. Lukač Duško, Maria Mikela Chatzimichailidou: **ICT Progress and its Consequences on Decentralization and Electricity storage**
- 1.6. Gavrilovska Daniela, Zdraveski Vladimir, Trajanov Dimitar: **Analysis of Green IT Challenges for Macedonian Companies**
- 1.7. Jevgenij Krivočhiza, Rimvydas Aleksiejunas, Kestutis Svirskas, Bronislavas Dzindzeleta, Anatolij Pantelejev, Jevgenij Zverelo, Mindaugas Zilinskas, Jurgis Aleksandravicius: **Modeling of Radar Interference Impact on VoLTE Service**
- 1.8. M. Juskauskas, J. Krivočhiza, J. Aleksandravicius, K. Svirskas, B. Dzindzeleta, R. Aleksiejunas, M. Zilinskas: **Experimental Investigation of Radar Interference into LTE System at 1800 MHz Frequency Band**
- 1.9. Herceg Dejana, Kasaš-Lazetić Karolina, Bajović Vera: **Continuous monitoring of time-varying electromagnetic fields in populated areas**
- 1.10. Huseinović Kemal, Kovačević Saša, Mušović Jasmin: **Šire mogućnosti upotrebe pametnih mobilnih telefonskih uređaja**

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

**ТМ 1 - Среда, 27.11.2013. године у 8:30 - сала 1а/0**  
**TN 1 - Wednesday, 27.11.2013, 8:30 – Hall 1a/0**

**Implementacije i primene / Implementations and applications**

**Председавајући: НЕНАД КРАЈНОВИЋ**

**Chairperson: NENAD KRAJNOVIĆ**

- 2.1. Todorović J. Miloš, Krajnović D. Nenad: **Simulaciona analiza mogućnosti SDN mreža**

- 2.2. Skorput P., Mandžuka S., Schatten M.: **Značajke ontologija u području kooperativnih inteligentnih transportnih sustava**
- 2.3. Banković Lazar, Samardžija Dragan: **Jedno rešenje 802.11 MESH komunikacionog sistema implementiranog u LINUX kernelu**
- 2.4. Božović Rade, Smiljanić Aleksandra, Čiča Zoran: **Implementacija procesiranja IPv6 datagrama na FPGA čipovima**
- 2.5. Džajić Miloš, Todorović M. Branislav: **Optimizacija SCTP parametara SIGTRAN protokola**
- 2.6. Nedeljковиć Ljubiša, Stefanović Radiša: **Eksperimentalna analiza propusnosti namenskih radio-mreža malog kapaciteta**
- 2.7. Divanović Soko, Urošević Uglješa, Veljović Zoran: **Šeme za alokaciju snage u MIMO i OFDM sistemima**
- 2.8. Sinobad Milan, Stanić Mihailo, Kostić Vladimir: **Mapiranje klijentskih signala korišćenjem softverskog sistema SUNCE+ modul za OTN**

<b>TM 2 - Среда, 27.11.2013. године у 11:00 - сала 1a/0</b> <b>TN 2 - Wednesday, 27.11.2013, 11:00 – Hall 1a/0</b>
---

*Simulacija i modelovanje / Simulation and modeling*

**Председавајући: МИРЈАНА СТОЈАНОВИЋ**

**Chairperson: MIRJANA STOJANOVIĆ**

- 2.9. Baraković Husić Jasmina, Perenda Erma, Baraković Sabina, Hadžialić Mesud: **Analytical and Simulation Modeling of IP Multimedia Subsystem**
- 2.10. Radeva Svetla, Otsetova-Dudin Ekaterina, Radev Dimitar: **Handover Simulation of Wireless Multimedia Networks**
- 2.11. Tsvetanov Filip, Georgieva Ivanka, Radeva Svetla, Radev Dimitar: **Modelling of Low-Rate Sensor Network Access**
- 2.12. Géza Horváth, Péter Fazekas: **End-to-end QoS Signaling for LTE**
- 2.13. Odalović Miloš, Radusinović Igor: **Improving and Simplifying Control in OpenFlow Networks**
- 2.14. Škaljo Namir, Begović Alen, Behlilović Narcis: **An example of improvement of access network triple-play ability by local loop shortening**
- 2.15. Cselyuszka N., Birgermajer S., Janković N., Crnojević-Bengin V.: **Grounded Open-Loop Resonator as a Dual-Mode Structure and Its Applications in Filter Design**

<b>TM 3 - Среда, 27.11.2013. године у 14:30 - сала 1a/0</b> <b>TN 3 - Wednesday, 27.11.2013, 14:30 – Hall 1a/0</b>
---

*Algoritmi i implementacije u telekomunikacijama / Algorithms and Implementations in Telecommunications*

**Председавајући: ДЕЈАН ДРАЈИЋ**

**Chairperson: DEJAN DRAJIĆ**

- 2.16. Šmidling Bojan, Zogović Nikola: **Genetic Algorithm as Energy Optimization Method in WSN**
- 2.17. Puzović S., Milićević S., Božilović B., Tešanović-Stojanović B.: **Implementation of Lavia-Manning Algorithm for Network Topology Design**
- 2.18. Aligrudić Ana, Pejanović-Đurišić Milica: **Energy efficiency and throughput improvements in two-tier networks with femtocells**

- 2.19. Divanović Soko, Radonjić Milutin, Gardašević Gordana, Radusinović Igor: **Dynamic Weighted Round Robin in Crosspoint Queued Switch**
- 2.20. Djinevski Leonid, Filiposka Sonja, Trajanov Dimitar, Mishkovski Igor: **GPU performance impact of the Durkin's radio propagation algorithm**
- 2.21. Perić Miroslav, Milićević Predrag, Banjac Zoran, Orlić Vladimir, Milićević Saša: **High speed random number generator for session key generation in encryption devices**
- 2.22. Petrov Ivan, Janevski Toni: **Improved TCP Slow Start Algorithm**

**TM 4 - Среда, 27.11.2013. године у 17:00 - сала 1а/0**  
**TN 4 - Wednesday, 27.11.2013, 17:00 – Hall 1a/0**

**Performanse mreža / Network performances**

**Председавајућа: АЛЕКСАНДРА СМИЉАНИЋ**

**Chairperson: ALEKSANDRA SMILJANIĆ**

- 2.23. Bašičević Ilija, Kostović Žarko, Popović Miroslav, Očovaj Stanislav: **Effect on Nonstationarity of Network Traffic in Entropy-Based Intrusion Detection (Case Study)**
- 2.24. Ninković M. Nemanja, Bojović Živko, Gajin Slavko: **Dynamic packet dispersion based on multi-threshold buffer occupancy**
- 2.25. Lauris Cikovskis: **Method for Analyses of Data Transmission Over Multiple Paths in Wireless Ad-hoc Networks**
- 2.26. Zviad Kirtava, David Jorjoliani, Kakhaber Kashmadze, Jemal Beridze, Omar Shamanadze, Navid Ghazisaidi: **Hybrid Networking Solutions for eHealth Systems in Georgia**
- 2.27. Radek Salom, Ondrej Pajer: **Interaction of Communication within Adjacent Channels in Sensor Wireless Network**
- 2.28. Andrei Vasile Iordache, Ion Marghescu: **Transmit Diversity in LTE Network**
- 2.29. Alexey Lagunov, Dmitry Fedin: **The Features of KA-BAND in the North-Western region of RUSSIA**

**TM 5 - Четвртак, 28.11.2013. године у 8:30 – сала 1а/0**  
**TN 5 - Thursday, 28.11.2013, 8:30 – Hall 1a/0**

**Optičke telekomunikacije i mreže / Optical telecommunications and networks**

**Председавајући: ДЕЈАН ГВОЗДИЋ**

**Chairperson: DEJAN GVOZDIĆ**

- 2.30. Stojanović Nebojša, Bangning Mao, Fotini Karinou: **Efficient and Low-Complexity Chromatic Dispersion Estimation in Coherent Optical Systems**
- 2.31. S. Fazel, M. Lourdiane, C. Lepers: **Three Degree ROADM Node Design using Different Wavelength Selective Switch Placement**
- 2.32. S. K. Idris, T. B. Osadola, I. Glesk: **Experimental Investigation of 2D-WH/TS Codes Based on PS Multi-Color Pulses**
- 2.33. Hugo Silveirinha Félix, A. Manuel de Oliveira Duarte: **FTTH – GPON Access Networks: Dimensioning and Optimization**
- 2.34. Konstantinos Papaefthimiou, Yonas Tefera, Dimitar Mihaylov, Jose M. Gutierrez, Michael Jensen: **Algorithmic PON/P2P FTTH Access Network Design for CAPEX Minimization**
- 2.35. Bogojeska Aleksandra, Filiposka Sonja, Mishkovski Igor, Kocarev Ljupčo: **On opinion formation and synchronization in multiplex networks**
- 2.36. Clifford C. L. Sibanda: **Architectural Challenges for Futuristic Autonomic Network Management in Heterogeneous Systems**



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

**RK 1 - Среда, 27.11.2013. године у 8:30 – сала 5/1  
RC 1 - Wednesday, 27.11.2013, 8:30 – Hall 5/1**

**Председавајући: НАТАША НЕШКОВИЋ**

**Chairperson: NATAŠA NEŠKOVIĆ**

- 3.1. Ilić-Delibašić Maja, Pejanović-Đurišić Milica, Ramjee Prasad: **Performance Analyzes of Dual-Hop Relay System over Ricean Fading Channels**
- 3.2. Kamran Ayub, Valerijs Zagurskis: **Pilot Signal Assisted Ultra Wideband Medium Access Control Algorithm for Wireless Sensor Networks**
- 3.3. C. Voicu, E.S. Lohan, S. Halunga: **Multiuser detection in DS-CDMA systems using POCS algorithm**
- 3.4. Salković Elvis, Kočan Enis, Pejanović-Đurišić Milica: **Pulse shaping techniques for ICI Reduction in OFDM Decode-and-Forward Relay Systems**
- 3.5. Dimitrijs Bliznuks, Valerijs Zagurskis, Cesare Fantuzzi: **Time Critical Wireless Data Transmission in Autonomous Control Applications**
- 3.6. Perić Dragana, Perić Miroslav: **Software for Rain Gauge Data Analysis for Path Diversity IP Radio-Relay Networks above 70GHz Planning**
- 3.7. Erić Miljko, Zetik Rudolf, Vučić Desimir: **An approach for determination of antenna positions in distributed antenna system used for UWB indoor self-localization: Experimental results**
- 3.8. Ilišević Dijana, Banović-Ćurguz Nataša: **Synchronization in mobile backhaul using hybrid microwave links**

**PK 2 – Среда, 27.11.2013. године у 11:00 - сала 5/1  
RC 2 - Wednesday, 27.11.2013, 11:00 – Hall 5/1**

**Председавајући: МИЛИЦА ПЕЈАНОВИЋ-ЂУРИШИЋ и АЛЕКСАНДАР НЕШКОВИЋ**

**Chairperson: MILICA PEJANOVIĆ-ĐURIŠIĆ and ALEKSANDAR NEŠKOVIĆ**

- 3.9. Alexandru Martian, Lucian Petrica, Octavian Radu: **Cognitive Radio Testing Framework Based on USRP**
- 3.10. Janjić Miloš, Brković Milenko, Erić Miljko: **Development of OFDM based secondary link: Some experimental results on USRP N210 platform**
- 3.11. M. A. Mehdawi, N. G. Riley, M. Ammar, A. Fanan, M. Zolfaghari: **Cooperative Wideband Spectrum Sensing With Multi-Bit Hard Decision in Cognitive Radio**
- 3.12. Marković B. Goran, Dukić L. Miroslav: **The Applicability of Cooperative AMC with Multiple Sensors in Dispersive Fading Channels**
- 3.13. Marković B. Goran, Dukić L. Miroslav: **AMC Using Cumulants with Segmentation of Input Sequence for Dispersive Fading Channels**
- 3.14. Vujić S. Dejan: **In-Building Design Based on Building Information Model**
- 3.15. Tadić Srđan, Gregory Moura, Thierry Trichaud: **Design of GNSS Performance Analysis and Simulation Tools in “GAPFILLER” Web-portal**
- 3.16. Jagodić Dijana, Vujičić Dejan, Pešović Uroš, Randić Siniša: **Hardversko-softverska platforma za identifikaciju objekata u IEEE 802.15.4 bežičnim senzorskim mrežama**
- 3.17. Muškatirović-Zekić Tamara, Simić Mirjana: **Neparametarske metode nadgledanja spektra**

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

СПС 1 - Уторак, 26.11.2013. године у 14:30 - сала 3/1  
CS 1 - Tuesday, 26.11.2013, 14:30 – Hall 3/1

Председавајући: НЕНАД МИЛОШЕВИЋ

Chairpersons: NENAD MILOŠEVIĆ

- 4.1. Stošović N. Slavimir, Dimitrijević R. Bojan, Milošević D. Nenad, Nikolić Zorica: **Reduction of the Effect of Carrier Frequency Offset at Orthogonal Frequency Division Multiplexing Systems (*invited paper*)**
- 4.2. Janjić Miloš, Nešković Nataša: **Upporedna analiza tehnika za redukciju PAPR OFDM signala**
- 4.3. Oana C. Manea, Răzvan E. Crăciunescu, Simona V. Halunga, Carmen Voicu, Radu Ovidiu Preda: **Performance evaluation of subcarrier allocation methods for OFDMA**
- 4.4. Amid Aliaghazadeh, Mohsen Eslami: **A Novel Subcarrier Allocation Scheme for Uplink OFDMA Femtocell Networks**
- 4.5. Thabet Safwan Salama, Abdulgader Abdalla: **Study of Smart Antenna Characteristics using Genetic Algorithms (GA) applications**
- 4.6. Libor Majer, Jozef Mihálov, Viera Stopjaková, Juraj Brenkuš, Gábor Gyepes, Matej Uram: **Multi-communication wireless system for smart households**

СПС 2 - Уторак, 26.11.2013. године у 17:00 - сала 3/1  
CS 2 - Tuesday, 26.11.2013, 17:00 – Hall 3/1

Председавајући: ДЕЈАН ДРАЈИЋ

Chairpersons: DEJAN DRAJIĆ

- 4.7. Nikolić Z. Bojana, Đorđević T. Goran: **On the Effect of Imperfect Reference Signal Recovery on BER Performance of PSK Receiver in Composite Fading Channel (*invited paper*)**
- 4.8. Petković I. Milica, Zdravković M. Nemanja, Đorđević T. Goran: **Error Performance of Uncoded and Convolutional Coded SC Receiver over FSO Channel with Pointing Errors**
- 4.9. Jiana Jarrouj, Blagojević Vesna, Ivaniš Predrag: **Analysis of SIR for Spectrum Sharing System with OSTBC in Nakagami Fading**
- 4.10. Popović Milica, Drajić Dejan, Krčo Srđan: **The impact of HSPA core network features on latency for M2M and OG-like traffic patterns**
- 4.11. Valentin Stangaciu, Dan Pescaru, Mihai V. Micea, Vladimir Cretu: **Practical Aspects Regarding Implementation of Real Time WSN Applications based on IEEE 802.15.4**
- 4.12. Bandur V. Miloš, Bandur V. Đoko, Popović M. Brankica: **Outage probability analysis in shadowed fading channel with multiple cochannel interferences**
- 4.13. Stefanović Z. Hana, Popović J. Zoran, Milić N. Dejan: **Procena performansi diverziti prijemnika u slučaju delovanja korelisanog Vejbulovog fedinga i ko-kanalne interference**

**СПС 3 - Среда, 27.11.2013. године у 8:30 - сала 3/1**  
**CS 3 - Wednesday, 27.11.2013, 8:30 – Hall 3/1**

**Председавајући: ГОРАН ЂОРЂЕВИЋ**

**Chairpersons: GORAN ĐORĐEVIĆ**

- 4.14. Cvetković Aleksandra, Đorđević T. Goran: **Outage Performance of Cooperative Relaying Systems in Interference-limited Environment** (*invited paper*)
- 4.15. Zdravković Nemanja, Cvetković Aleksandra, Đorđević T. Goran, Kimmo Kansanen: **Outage Probability of Decode-and-Forward Network with Threshold based Protocol over Rayleigh Fading**
- 4.16. Stefan Maagh, John Sharp, T. David Binnie: **The Dynamic Decode-and-Forward Channel: SNR Allocation For Fair Performance Analysis**
- 4.17. Omran Al Rasheed, Brkić S. Srđan, Ivaniš N. Predrag, Vasić Bane: **Performance Analysis of Faulty Gallager-B Decoding of QC-LDPC Codes**
- 4.18. Popovska-Mitrovikj Aleksandra, Markovski Smile, Bakeva Verica: **Error-Correcting Codes with Cryptographic Algorithms**
- 4.19. Basman M. Al-Nedawe, Adel M. Buhafa, Martin J. N. Sibley, Peter J. Mather: **Improving Error Performance of Dicode Pulse Position Modulation System using Forward Error Correction Codes**
- 4.20. Orlić D. Vladimir, Perić Miroslav, Milićević Predrag, Banjac Zoran, Milićević Saša: **Novel Design of General – Purpose Signal Processing and Communication Board**

**СПС 4 - Среда, 27.11.2013. године у 17:00 - сала 3/1**  
**CS 4 - Wednesday, 27.11.2013, 17:00 – Hall 3/1**

**Председавајући: JAN MIKKELSEN**

**Chairpersons: JAN MIKKELSEN**

- 4.21. Jan Mikkelsen, Felice Tafuri, Troels Nielsen, Ming Shen, Wei Wei, Ole Jensen: **The Development of Microwave Power Amplifiers and Nonlinear Measurement Systems – is the Measurement Systems Manufacturer still Lead by the PA Designer?** (*invited paper*)
- 4.22. George Suci, Gyorgy Todoran, Cristina Butca: **Network Cloud Simulator for Modelling Trust in Cognitive Radio Applications**
- 4.23. Alin-M. Cailean, Barthélemy Cagneau, Luc Chassagne, Suat Topsu, Yasser Alayli, Mihai Dimian: **Design and implementation of a visible light communications system for vehicle applications**
- 4.24. Luca Dariz, Massimiliano Ruggeri, Giorgio Malaguti: **A proposal for enhancement towards bidirectional quasi-deterministic communications using IEEE 802.15.4**
- 4.25. Stojanović Z. Igor, Jovanović D. Milica, Đorđević Lj. Goran: **Low-Cost Port Allocation Scheme for Minimizing Deflections in Bufferless On-Chip Networks**
- 4.26. Savić Milan, Papp Istvan, Rešetar Ivan, Majstorović Dušan, Spasojević Danijel: **Implementation of server push mechanism based on TR-069 and TR-111 protocols for network device management**
- 4.27. György Kálmán, Dalimir Orfanus: **Measuring Latencies Over Industrial Ethernet Switches**

**СПС 5 – Четвртак, 28.11.2013. године у 11:00 - сала 3/1**  
**CS 5 - Thursday, 28.11.2013, 11:00 – Hall 3/1**

**Председавајући: ПРЕДРАГ ИВАНИШ**

**Chairpersons: PREDRAG IVANIŠ**

- 4.28. Brkić Srđan, Ivaniš Predrag, Đorđević Goran, Vasić Bane: **Symbolic Analysis of Faulty Logic Circuits in the Presence of Correlated Gate Failures**
- 4.29. Minja Aleksandar, Stanojević Ivan, Šenk Vojin: **Konstrukcija treliš kodovane modulacije optimizacijom sfernih kodova**
- 4.30. Cvetičanin Nikola, Perić Miroslav, Obradović Miroslav, Božilović Boško: **A Simulation Model for Data Transmission over Arbitrary Voice Channels**
- 4.31. Omerašević Damir, Behlilović Narcis, Mrdović Saša, Sarajlić Asaf: **Comparing Randomness on Various Video and Audio Media File Types**
- 4.32. Vladimir Lyashev, Ivan Oseledets, Delai Zheng: **Tensor-Based Multiuser Detection and Intra-Cell Interference Mitigation in LTE PUCCH**
- 4.33. Jan Broulim, Vjačeslav Georgiev, Jan Moldaschl, Lukáš Paločko: **LDPC code optimization based on Tanner graph mutations**
- 4.34. Constantin Anton, Laurențiu Ionescu, Alin Mazăre, Ion Tutănescu, Gheorghe Șerban: **Errors correction with optimised Hopfield neural networks**

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

**ОС 1 - Уторак, 26.11.2013. године у 14:30 - сала 6/1**  
**SP 1 - Tuesday, 26.11.2013, 14:30 – Hall 6/1**

**Obrada signala u telekomunikacijama / Signal Processing in Communications**

**Председавајући: МИЉКО ЕРИЋ и НЕНАД КОЈИЋ**

**Chairpersons: MILJKO ERIĆ and NENAD KOJIĆ**

- 5.1. Kojić S. Nenad: **Implementations of Hopfield neural network in communication networks (invited paper)**
- 5.2. Ogzuhan Cakir, Ismail Kaya, Ayhan Yazgan: **Propagation Speed Free Emitter Location Finding using TDOA**
- 5.3. Slavche Pejovski, Venceslav Kafedziski: **Method for direction of arrival estimation of uncorrelated wideband signals based on sparse covariance fitting**
- 5.4. Shaghayegh Kafshgari, Reza Mohseni: **OFDM Radar Detection in K-Compound Clutter**
- 5.5. Javad Taghipour, Vahid Tabataba Vakili: **Estimating the Threshold of the Energy Detector in IR-UWB OOK Systems without Using Training Sequences**
- 5.6. Mrazovac Bojan, Jovanović Zoran, Jovanović Saša, Kuzmanović Majda: **Smart radio technology for advanced home automation: A solution for the surveillance**
- 5.7. Yeonsoo Jang, Hyeongyong Lim, Byunghoon Oh, Dongweon Yoon: **Clutter Mapping and Performance Analysis for Vehicular Radar Systems**

**OC 2 - Уторак, 26.11.2013. године у 17:00 - сала 6/1**  
**SP 2 - Tuesday, 26.11.2013, 17:00 – Hall 6/1**

**Akvizicija i filtriranje signala / Signal Acquisition and filtering**

**Председавајући: GEORGI NENOV и СРЂАН СТАНКОВИЋ**

**Chairpersons: GEORGI NENOV and SRĐAN STANKOVIĆ**

- 5.8. Velimirović Lazar, Perić Zoran, Stanković Miodir, Nikolić Jelena: **Design of compandor quantizer using spline approximations (invited paper)**
- 5.9. Georgi A. Nenov: **An Alternative Approach to Symbolic Sensitivity Analysis by using Chan-Mai's Signal-Flow Graphs**
- 5.10. Baltić Lj. Milan, Rakić Ž. Aleksandar, Ponjavić Milan: **Sistem za akviziciju sa promenljivom periodom odabiranja**
- 5.11. Ivars Bilinskis, Eugene Boole, Armands Mezerins, Vadim Vedin: **Alias-free compressed signal digitizing and recording on the basis of Event Timer**
- 5.12. Stanković Srđan, Orović Irena, Stanković Ljubiša: **Single-Iteration Algorithm for Compressive Sensing Reconstruction**
- 5.13. Drašković Aleksandar, Brajović Miloš, Daković Miloš, Stanković Ljubiša: **Time-Frequency Plane Splitting for the First Order Local Polynomial Fourier Transform**
- 5.14. Pavlović Vlastimir, Ilić Aleksandar, Cvetković Zlata: **3D Parametric Analysis of the RC Active Gegenbauer Filters**

**OC 3 - Среда, 27.11.2013. године у 8:30 - сала 6/1**  
**SP 3 - Wednesday, 27.11.2013, 8:30 – Hall 6/1**

**Obrada audio signala / Audio Signal Processing**

**Председавајући: ВЛАДО ДЕЛИЋ и ЈУРИЈ ПРЕЗЕЉ**

**Chairpersons: VLADO DELIĆ and JURIJ PREZELJ**

- 5.15. Bojanić Milana, Delić Vlado: **Automatic emotional speech recognition in Serbian language (invited paper)**
- 5.16. Jakovljević M. Nikša, Mišković M. Dragiša, Pakoci T. Edvin, Grbić P. Tatjana, Delić D. Vlado: **Poređenje performansi nekoliko varijanata GMM u sistemima za prepoznavanje govora**
- 5.17. Lipar Primož, Prezelj Jurij, Šteblaj Peter, Čudina Mirko, Mihelič France: **Identification of machinery sounds**
- 5.18. Šteblaj Peter, Prezelj Jurij, Lipar Primož, Čudina Mirko: **Signal to noise ratio improvement of *in situ* absorption measurement using active noise control approach**
- 5.19. Ostrogonac Stevan, Suzić Siniša, Bojanić Milana, Pakoci Edvin: **Speech Resources for a Serbian LVCSR System**
- 5.20. Miroslav Voznak, Pavol Partila, Miralem Mehic, Sergej Jakovlev: **Recognizing Emotions from Human Speech Using 2-D Neural Classifier and Influence the Selection of Input Parameters on its Accuracy**
- 5.21. Roberto Drago, Trevor Spiteri, Paul Micallef: **Real-Time Loudness Control for IP-based SPTS and MPTS streams**

**OC 4 - Среда, 27.11.2013. године у 11:00 - сала 6/1**  
**SP 4 - Wednesday, 27.11.2013, 11:00 – Hall 6/1**

**Obrada signala i slike / Signal and Image Processing**

**Председавајући: DAN LACRAMA и ЗОРАН ПЕРИЋ**

**Chairpersons: DAN LACRAMA and ZORAN PERIĆ**

- 5.22. Despotović Vladimir, Perić Zoran: **Design of Nonlinear Predictors for Adaptive Predictive Coding of Speech Signals (*invited paper*)**
- 5.23. Romeo Cojocaru, Dan Popescu, Irina-Emilia Nicolae: **Texture Classification based on Succolarity**
- 5.24. Florentina A. Pintea, Dan L. Lacrama, Tiberiu M. Karnyanszky, Corenliu Ioan Toma: **Automatic Pre-processing of Images for Tree Drawing Test**
- 5.25. Bandur V. Miloš, Popović M. Brankica, Raičević M. Anđelija, Randelović Dragan: **Improving minutiae extraction in fingerprint images through robust enhancement**
- 5.26. Andrey Kokoulin: **Methods for Image Processing and Distributed Storing**
- 5.27. Borišev Branko, Peković Vukota, Samardžija Dragan, Leporis Milko: **TV Test Signal Generator and Grabber**
- 5.28. Dujković M. Dragi, Grubišić Lenkica, Dedić Nešić Snežana, Paskaš Milorad, Reljin Irini: **Potiskivanje neželjenih rezonancija na kristalnim jedinkama petog overtona**
- 5.29. Lutvica Kemal, Osmić Nedim, Jurić Željko: **Identification of an Ethane-ethylene distillation column system – a procedure for MIMO system identification using the IDENT toolbox**

**СЕКЦИЈА 6: ПРИМЕЊЕНА ЕЛЕКТРОНИКА (ПЕЛ)  
APPLIED ELECTRONICS (AEL)**

**ПЕЛ 1 - Среда, 27.11.2013. године у 11:00 - сала 3/1**  
**AEL 1 - Wednesday, 27.11.2013, 11:00 – Hall 3/1**

**Elektronski sistemi / Electronic systems**

**Председавајући: МИОДРАГ ТЕМЕРИНАЦ и РАДИВОЈЕ ЂУРИЋ**

**Chairperson: MIODRAG TEMERINAC and RADIVOJE ĐURIĆ**

- 6.1. Uldis Grunde: **Embedded Configurable Sensor Interface Devices for Seamless Data Acquisition**
- 6.2. Orlandić Milica, Kjetil Svarstad: **A High-Throughput and Low-Complexity H.264/AVC Intra 16x16 Prediction Architecture for HD video sequences**
- 6.3. Čelić Radovan, Pap Ištvan, Majdak Aleksandar, Vranić Nikola: **Realizacija upravljanja pametnim utičnicama pomoću bežične sprege**
- 6.4. Đukić Jovan, Bogić Stevan, Dimovski Dušanka, Pilipović Miloš: **Prikaz hardvera E2LP, univerzalne platforme za izučavanje ugrađenih računarskih sistema**
- 6.5. Lukas Nagy, Viera Stopjakova: **Self-Heating Spectre Model of High Frequency Voltage Regulator**
- 6.6. Jean-Marie Retrouvery, Philippe Maugars, Nguyen Triedu Laun Le, Philippe Descamps: **Adaptive DC-DC Converter for Efficient 4G Macro-Cell Base Station**
- 6.7. Đurić Radivoje, Božović Mihajlo: **Integrirani RF-DC konvertor za napajanje bežičnih senzorskih mreža**

**ПЕЛ 2 - Среда, 27.11.2013. године у 14:30 - сала 3/1**  
**AEL 2 - Wednesday, 27.11.2013, 14:30 – Hall 3/1**

**Senzori i merni sistemi / Sensors and measurement systems**

**Председавајући: ULDIS GRUNDE и ЈЕЛЕНА ПОПОВИЋ-БОЖОВИЋ**

**Chairpersons: ULDIS GRUNDE and JELENA POPOVIĆ-BOŽOVIĆ**

- 6.8. Modris Greitans, Uldis Grunde, Andris Jakovics, Stanislavs Gendelis: **Web-Based Real-Time Data Acquisition System as Tool for Energy Efficiency Monitoring**
- 6.9. Michael Holik, Vaclav Kraus, Jan Broulim, Vjaceslav Georgiev: **The interface for the pixelated particle detector with the capability of the spectroscopy function and the coincidence measurement operation**
- 6.10. Radulović Milan, Čelebić Vladimir, Salom Iva, Gajica Jovanka, Pavlović Marko, Nenadić Nikola: **Concept design of a system for partial discharges diagnostics using single board computer**
- 6.11. Tadić Srđan, Vukajlović B. Milan: **Coarse Azimuth Alignment of Inertial Measurement Unit for Use in Telematics**
- 6.12. Kocić Jelena, Popović-Božović Jelena: **Realizacija senzorske ploče kamere visoke rezolucije sa HiSPi ulaznim interfejsom**
- 6.13. Simić Mitar: **Relaization of complex impedance measurement system based on the integrated circuit AD5933**
- 6.14. Milanović Mihajlo, Bjelica Milan: **Sistem za karakterizaciju amplitudskog šuma**
- 6.15. Antić Nikola, Bjelica Milan: **Sistem za merenje faznog šuma**

**ПЕЛ 3 - Четвртак, 28.11.2013 године у 8:30 - сала 5/1**  
**AEL 3 - Thursday, 28.11.2013, 8:30 – Hall 5/1**

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

**Председавајући: KAMIL KOSTURIK и ВУЈО ДРНДАРЕВИЋ**

**Chairpersons: KAMIL KOSTURIK and VUJO DRNDAREVIĆ**

- 6.16. P. Štětka, J. Křivka, L. Elis, J. Vlášek, J. Žahour, K. Kosturik: **Control and navigation system for mobile platform**
- 6.17. Jiří Žahour, Luděk Elis, Jindřich Křivka, Petr Štětka, Kamil Kosturik: **Control unit of monitoring airship and his communication interface**
- 6.18. J. Křivka, L. Elis, J. Vlášek, J. Žahour, P. Štětka, K. Kosturik: **Hardware for rail traffic simulator**
- 6.19. J. Vlášek, J. Křivka, L. Elis, J. Žahour, P. Štětka, K. Kosturik: **Software for rail traffic simulator**
- 6.20. Gadžović Almir, Lekić Neđeljko, Radusinović Igor: **Automation of parking services using UHF RFID technology and magnetometers**
- 6.21. M. Liepins, A. Severdaks: **Vehicle detection using non-invasive magnetic wireless sensor network**
- 6.22. Lukas Pusman, Kamil Kosturik: **Control Algorithm Based on Phase Locked Loop**
- 6.23. Nikolić V. Marko, Milanović D. Milan, Stojković M. Željko, Antonić M. nenad, Kosić D. Bojan: **Predlog arhitekture brojača osovina u železnici**

**ПЕЛ 4 - Четвртак, 28.11.2013. године у 11:00 - сала 5/1**  
**AEL 4 - Thursday, 28.11.2013, 11:00 – Hall 5/1**

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

**Председавајући: ВЛАДИМИР ПЕТРОВИЋ и ЛАЗАР САРАНОВАЦ**

**Chairpersons: VLADIMIR PETROVIĆ and LAZAR SARANOVAC**

- 6.24. Lukáš Paločko, Jan Broulim, Jan Moldaschl: **Decoder with the Dynamic CMOS Matrix**
- 6.25. Laura-Nicoleta Ivanciu, Peter Soeser, Sorin Hintea: **Sub-1 dB Noise Figure CMOS Single-Ended 2.1 GHz LNA in 0.35  $\mu\text{m}$  Technology**
- 6.26. Pajkanović Aleksandar, Videnović-Mišić Mirjana: **An Ultra Wideband, 6-9 GHz, 130 nm CMOS Low Noise Amplifier**
- 6.27. Petrović Vladimir, Ilić Marko, Gunter Schoof, Stamenković Zoran: **Integrated Single Event Latchup Protection for ASICs used in Space Applications**
- 6.28. Pavel Broulim, Richard Linhart, Pavliček Vladimir: **Digital modulations design using Altera FPGA**
- 6.29. Nikolić M. Miloš, Pjevalica U. Nebojša, Kovačević V. Jelena, Đukić P. Ilija: **FPGA based development platform for Implementation of Brushless DC Motor Control**
- 6.30. Simonović Mirela, Živojnović Vojin, Mista Davorin, Janković Strahinja, Saranovac Lazar: **Energy Proportional Management of Residential Gateways**

**СЕКЦИЈА 7: ПРИМЕЊЕНА ЕЛЕКТРОМАГНЕТИКА (ПЕМ)  
APPLIED ELECTROMAGNETICS (AEM)**

**ПЕМ 1 - Среда, 27.11.2013. године у 14:30 - сала 6/1**  
**AEM 1 - Wednesday, 27.11.2013, 14:30 – Hall 6/1**

**Председавајући: МИЛАН ИЛИЋ и ДРАГАН ОЛЋАН**

**Chairpersons: MILAN ILIĆ and DRAGAN OLČAN**

- 7.1. Rančić P. Milica, Aleksić R. Slavoljub: **Analysis of Wire Antenna Structures above Lossy Homogeneous Soil (*invited paper*)**
- 7.2. Petrović V. Vladimir, Krneta J. Aleksandra, Kolundžija M. Branko: **Singularity Extraction for Reflected Sommerfeld Integrals Over a Multilayered Media**
- 7.3. Petrović V. Vladimir, Krneta J. Aleksandra, Kolundžija M. Branko: **Method for Improving Convergence of the Reflected Sommerfeld Integrals for a Multilayered Media**
- 7.4. Ilić M. Milan, Ilić Ž. Anđelija: **Convergence of the Higher Order Frequency-Domain FEM Solution to Scattering from a Moving Dielectric Slab**
- 7.5. Musić E. Jasmin, Olčan I. Dragan: **Elektromagnetska analiza slabljenja signala radio sistema usled prisustva ljudskog tela**
- 7.6. Claudia Musu, Alessandro Fanti, Daniele Giusto: **Dosimetry and Biological Effect Evaluation On Electromagnetic Model of Head**



**ПЕМ 2 - Среда, 27.11.2013. године у 17:00 - сала 6/1**  
**AEM 2 - Wednesday, 27.11.2013, 17:00 – Hall 6/1**

**Председавајући: ЈОВАН ЦВЕТИЋ и НЕНАД ПОПОВИЋ**

**Chairpersons: JOVAN CVETIĆ and NENAD POPOVIĆ**

- 7.7. R. Gholami, A. E. Zadeh, B. Zakeri: **Linear and Circular Pattern Nulling Using Particle Swarm Optimization**
- 7.8. Lazović Luka, Jovanović Ana, Veljović Zoran: **Implementacija i analiza performansi VSS-LMS algoritma na mikrotrakastim planarnim antenskim nizovima**
- 7.9. MReza Khorramian, Bijan Zakeri: **Design and Analysis of a Multiband Sierpinski Type Monopole Fractal Antenna**
- 7.10. Popović Nenad, Manojlović Predrag: **Analiza DR Antene sa dva cilindrična dielektrična rezonatora pobuđena prorezom**
- 7.11. Marković A. Slavoljub, Cvetić M. Jovan, Pavlović M. Dragan, Ignjatović D. Milan: **Applicability of the Gauss' law on Lightning Channel Corona Sheath Modeling**
- 7.12. A. Capozzoli, C. Curcio, A Liseno, S. Savarese: **A Comparison of Fast Maching, Fast Sweeping and Fast Iterative Methods for the Solution of the Eikonal Equation**

**ПЕМ 3 - Четвртак, 28.11.2013. године у 11:00 - сала 6/1**  
**AEM 3 - Thursday, 28.11.2013, 11:00 – Hall 6/1**

**Председавајући: МИЛКА ПОТРЕБИЋ и DIANA BUCUR**

**Chairpersons: MILKA POTREBIĆ and DIANA BUCUR**

- 7.13. Stefanovski Lj. Snežana, Potrebić M. Milka, Tošić V. Dejan: **Structure for Precise Positioning of Inserts in Waveguide Filters**
- 7.14. A. H. Sarhadi, A. Hashemi, H. Emami: **Optimization of Q Factor in Complementary Spiral Resonator for RFID Application**
- 7.15. Vasily Yu. Kozhevnikov, Vladimir Yu. Konev, Alexey I. Klimov, Vladimir P. Gubanov, Oleg B. Kovalchuk, Andrey V. Kozyrev: **Phase stabilization effect in nanosecond microwave Gunn oscillators**
- 7.16. Diana Bucur: **Crosstalk – an overview for high speed design**
- 7.17. Simić Mitar, Šekara B. Tomislav, Jokić Srđan: **Model trofaznog transformatora zasnovan na nelinearnoj karakteristici praznog hoda**

## **СЕКЦИЈА 8: МУЛТИМЕДИЈА (MM) MULTIMEDIA (MM)**

**ММ 1 - Уторак, 26.11.2013. године у 14:30 - сала 5/1**  
**MM 1 - Tuesday, 26.11.2013, 14:30 – Hall 5/1**

***Televizija / Television***

**Председавајући: ВЕЛИБОР МИХИЋ и АНА ГАВРОВСКА**

**Chairpersons: VELIBOR MIHIĆ and ANA GAVROVSKA**

- 8.1. Radović Bojan, Miljković Goran, Bogičević Branko, Mihić Velibor: **Rendering of Digital Video Content through OpenGL ES on Smart TV**

- 8.2. Đukić Ilija, Lukić Nemanja, Džakula Radomir, Drča Srđan: **A Java API interface for the search of the EPG data in Android OS based devices**
- 8.3. Brett Marko, Ačanski Dušan, Petrović Novković Teodora, Vranić Nikola: **IP Tuner Integration in a DVB Software Stack**
- 8.4. Pijetlović Stefan, Jovanović Nenad, Jovanov Nevena, Očovaj Stanislav: **One solution of a system for data acquisition and storage from the digital television transport stream and its exposure to the clients**
- 8.5. Milanović Miloš, Pavlović Branimir, Petrović Ivan, Maruna Tomislav: **Jedno rešenje grafičke korisničke sprege TV aplikacije na prijemniku digitalnog televizijskog signala zasnovanog na Android platformi**
- 8.6. Ignjatov Nemanja, Četković Mića, Prtvar Bojan, Trifunović Dragan, Čubrilo Miljan: **Realizacija personalnog repozitorijuma u Cloud-u: Rešenje za set-top boks uređaje**
- 8.7. Trifunović Bojan, Mihailović Veljko, Zličić Aleksandar, Filipović Jovana, Babić Đurđa: **Proširenje STB uređaja podrškom za prijem i reprodukciju sadržaja korišćenjem SAT>IP protokola**
- 8.8. J. Frnda, M. Voznak, J. Rozhon, M. Mehic: **Prediction Model of QoS for Triple Play Services**

**MM 2 - Уторак, 26.11.2013. године у 17:00 - сала 5/1**  
**MM 2 - Tuesday, 20.11.2012, 17:00 – Hall 5/1**

**Multimedija / Multimedija**

**Председавајући: АНДРЕЈА САМЧОВИЋ и ГОРАН ЗАЈИЋ**

**Chairpersons: ANDREJA SAMČOVIĆ and GORAN ZAJIĆ**

- 8.9. Antonis Mairgiotis, Dimitrios Ventzas: **Traffic video data protection based on a simultaneous autoregressive image model**
- 8.10. Orović Irena, Draganić Anđela, Stanković Srđan: **Compressive Sensing as a Watermarking Attack**
- 8.11. Orović Irena, Seri Park, Stanković Srđan: **Compressive sensing in Video Applications**
- 8.12. Vasić Bata, Đorđević T. Goran, Vasić Bane: **Slepi robusni vodeni žigovi 3D mreža**
- 8.13. Zeković Amela, Reljin Irini: **Multifractal and Inverse Multifractal Analysis of Multiview 3D Video**
- 8.14. Samčović Andreja, Antoni-Jaume-i-Capo: **Serious Games in Health Care Based on Multimedia Technologies**
- 8.15. Miličević M. Zoran, Bojković S. Zoran: **Objective and Subjective Comparison of HEVC vs. H.264/AVC Standard**
- 8.16. Đorđević Dragana, Ostojić Ivana, Kukolj Dragan, Pokrić Maja, Dražić Miroslava: **Model višeslojnog perceptrona za ocenu kvaliteta slike**

**MM 3 – Среда, 27.11.2013. године у 14:30 - сала 5/1**  
**MM 3 - Wednesday, 27.11.2013, 14:30 – Hall 5/1**

**Audio i akustika / Audio and Acoustics**

**Председавајући: ДРАГАНА ШУМАРАЦ ПАВЛОВИЋ и ЈЕЛЕНА ЋЕРТИЋ**

**Chairpersons: DRAGANA ŠUMARAC PAVLOVIĆ and JELENA ČERTIĆ**

- 8.17. Abderrahmane Smimite, Azeddine Beghdadi, Ken Chen: **Investigating “The Experience Effect” in Audio Quality Assessment**
- 8.18. Andrejević Milan, Ćirić Dejan: **Primena wavelet transformacije u smanjenju šuma impulsnog odziva prostorije**
- 8.19. Vojnović Milan: **Akustički model vokalnog trakta jednogodišnjeg deteta**

- 8.20. Vojnović Milan, Bogavac Ivana, Dobrijević Ljiljana: **Formantne frekvencije vokala jednogodišnjeg deteta**
- 8.21. Janković Marko, Perić Zoran, Ćirić Dejan: **Analitička aproksimacija spektralne gustine snage govora u srpskom jeziku**
- 8.22. Mašović Draško, Šumarac Pavlović Dragana, Mijić Miomir: **Calculation of sound insulation according to EN 12354: Influence of sound reduction index of flanking elements**
- 8.23. Mašović Draško, Šumarac Pavlović Dragana, Mijić Miomir: **Calculation of sound insulation according to EN 12354: Influence of type of the separating element junctions**
- 8.24. Prezelj Jurij, Šteblaj Peter, Čudina Mirko: **Very near field of a dipole source above the impedance plane**
- 8.25. Salom Iva, Todorović Dejan, Čelebić Vladimir, Gajica Jovanka, Mijić Miomir: **Analysis of Acoustic Wave Propagation in Laboratory Model of Instrument Transformer**

## **СЕКЦИЈА 9: СОФТВЕРСКИ АЛАТИ И АПЛИКАЦИЈЕ (САА) SOFTWARE TOOLS AND APPLICATIONS (STA)**

**САА 1 - Уторак, 26.11.2013. године у 14:30 - сала 1b/0**  
**STA 1 - Tuesday, 26.11.2013, 14:30 – Hall 1b/0**

### *Prepoznavanje znanja / Knowledge Mining*

**Председавајући: МИЛОШ ЦВЕТАНОВИЋ и ЂОРЂЕ ЂУРЂЕВИЋ**

**Chairpersons: MILOŠ CVETANOVIĆ and ĐORĐE ĐURĐEVIĆ**

- 9.1. Karmen Klarin, Stipo Čelar: **Ontology-based knowledge management approach for information system development**
- 9.2. Karl Benkič, Aleksandar Peulić: **Routing tree implementation based on semi-matching algorithm(s)**
- 9.3. Bežanić Nikola, Popović Ivan: **Virtuelni pretvarači u servisno-orijentisanoj mreži pametnih pretvarača**
- 9.4. Pavković Miloš, Protić Jelica: **Intelligent Crawler for Web Forums based on Improved Regular Expressions**
- 9.5. Batanović Vuk, Bojić Dragan: **Evaluacija i klasifikacija korišćenja sintaksnih informacija u određivanju semantičke sličnosti kratkih tekstova**
- 9.6. Lutovac M. Maja, Bojić Dragan, Kvirgić Vladimir: **Automatizovano testiranje parsera L-IRL jezika za programiranje robota**
- 9.7. Marković P. Ivana, Stanković Z. Jelena, Stanković M. Jovica: **Priprema podataka za modelovanje prediktivne analize u domenu osiguranja imovine od osnovnih rizika**
- 9.8. Krunic Momčilo, Letvenčuk Ivan, Považan Ivan, Stanojlović Ivana: **Automatic source code generation of peripheral hardware modules firmware**

**САА 2 - Уторак, 26.11.2013. године у 17:00 - сала 1b/0**  
**STA 2 - Tuesday, 26.11.2013, 17:00 – Hall 1b/0**

### *Distribuirano programiranje / Distributed Programming*

**Председавајући: ЗАХАРИЈЕ РАДИВОЈЕВИЋ и ПАВЛЕ ВУЛЕТИЋ**

**Chairpersons: ZAHARIJE RADIVOJEVIĆ and PAVLE VULETIĆ**

- 9.9. Joldžić V. Ognjen, Vuković R. Dijana: **The Impact of Cluster Characteristics on HiveQL Query Optimization**

- 9.10. Joldžić V. Ognjen: **Applying MapReduce Algorithm to Performance Testing in Lexical Analysis on HDFS**
- 9.11. Jelačić Bojan, Vukmirović Srđan, Stoja Sebastijan: **Softverska infrastruktura za distribuirane modele podataka u Cloud-u**
- 9.12. Ranković Vukašin, Kos Anton, Tomažič Sašo, Milutinović Veljko: **Performance of the Bitonic Mergesort Network on a Dataflow Computer**
- 9.13. Cristian Perra: **Wireless Cooperative Access for Next Generation Mobility Applications**
- 9.14. Stanivuk Stefan, Četić Nenad, Kovačević Jelena, Borić-Herget Milenko: **Twitter controlled real time audio synthesizer based on XMOS platform**

**CAA 3 - Среда, 27.11.2013. године у 8:30 - сала 1b/0**  
**STA 3 - Wednesday, 27.11.2013, 8:30 – Hall 1b/0**

*Veb aplikacije / WEB Applications*

**Председавајући: БОШКО НИКОЛИЋ и МЛАДЕН ВЕИНОВИЋ**

**Chairpersons: BOŠKO NIKOLIĆ and MLADEN VEINOVIĆ**

- 9.15. Anđelić Lj. Svetlana, Valentin Kuleto: **Web aplikacija za CAT testiranje studenata**
- 9.16. Brčić Petar: **Poboljšanje performansi fizičkog WEB servera primenom proxy server akceleratora**
- 9.17. Algaddafi Khalifa, Živković Miodrag, Branović Irina, Popović Ranko: **Internationalized approach to wireless networks simulation**
- 9.18. Čelar Stipe, Šeremet Željko, Marušić Željko, Turić Mili: **Using of Web Objects Method in Agile Web Software Projects**
- 9.19. Vrga Nenad, Četić Nenad, Kovačević Jelena, Bardek Dejan: **HTTP server for control of home appliances based on XMOS platform**
- 9.20. Butković Asmir, Mrdović Saša, Mujačić Samra: **IP geolocation suspicious email messages**
- 9.21. Lutovac M. Maja, Protić Jelica, Kvrgić Vladimir: **Udaljeno upravljanje industrijskim robotom Lola 50 upotrebom wireless komunikacije i Android uređaja**

**CAA 4 - Среда, 27.11.2013. године у 11:00 - сала 1b/0**  
**STA 4 - Wednesday, 27.11.2013, 11:00 – Hall 1b/0**

*Hardverski sistemi / Hardware Systems*

**Председавајући: СИНИША РАНЂИЋ и НЕМАЊА КОЈИЋ**

**Chairpersons: SINIŠA RANĐIĆ and NEMANJA KOJIĆ**

- 9.22. Roland Szabó, Aurel Gontean: **Remotely Commanding the Lynxmotion AL5 Type Robotic Arms**
- 9.23. Bokan Dejan, Četić Nenad, Kovačević Jelena, Ilić Velibor: **Control of unmanned aerial vehicle based on XMOS platform**
- 9.24. Četković Mića, Ikonić Nikola, Jelovac Vladimir, Atanasievski Marko: **Realizacija servera za automatsku konfiguraciju i nadzor velikog broja uređaja potrošačke elektronike**
- 9.25. Grković B. Sava, Miljanović M. Dejan, Stefanovski Lj. Snežana, Potrebić M. Milka, Tošić V. Dejan: **WIPL-D modelovanje višeslojnog filtra sa interdigitalno spregnutim uvodnicima**
- 9.26. Barbarić Ž. P., Lutovac M. D.: **Error of Displacement Signal for Uncorrelated and Correlated Noise of Laser Illuminated Object**

- 9.27. Šutić Davor, Atlagić Branislav, Mihaly Sagi: **Support for Alarms and Events on the oSCADA system**
- 9.28. Bjelica Ognjen, Lale Srđan: **Development Environment for Monitoring, Data Acquisition and Simulation of PLC Controlled Applications**
- 9.29. Roland Szabó, Aurel Gontean: **Controlling a Robotic Arm in the 3D Space with Stereo Vision**

**CAA 5 - Среда, 27.11.2013. године у 14:30 - сала 1b/0**  
**STA 5 - Wednesday, 27.11.2013, 14:30 – Hall 1b/0**

*Algoritmi / Algorithms*

**Председавајући: РАНКО ПОПОВИЋ и ИРИНА БРАНОВИЋ**

**Chairpersons: RANKO POPOVIĆ and**

- 9.30. Maksimović Mirjana, Vujović Vladimir, Kosmajac Dijana: **Fuzzy rule reduction influence on system's accuracy**
- 9.31. Tomas Sochor, Radim Farana: **Improving efficiency of e-mail communication via SPAM elimination using blacklisting**
- 9.32. Ćajić Miroslav, Veinović Mladen, Brkić Bogdan, Janković Zoran: **Primjena steganografskih metoda tehnikom zamjene i ubacivanja**
- 9.33. Petrović Strahinja, Radosavljević Vladimir, Temerinac Miodrag, Lukač Željko, Kaštelan Ivan: **Jedno rešenje programskog okruženja za brzu implementaciju algoritama za obradu signala u realnom vremenu**
- 9.34. Janković M. Milica, Koljević Marković Ana, Odalović Strahinja, Popović B. Dejan: **Third-party Application for Quantitative Salivary Gland Scintigraphy**
- 9.35. Huseinović Alvin, Ribić Samir: **Virtual Machine Memory Forensics**
- 9.36. Radosavljević Vladimir, Petrović Strahinja, Kaštelan Ivan, Lukač Željko, Temerinac Miodrag: **Programsko okruženje za ubrzanje realizacije algoritama za digitalnu obradu signala na platformi sa ugrađenim resursima**

**CAA 6 - Среда, 27.11.2013. године у 17:00 - сала 1b/0**  
**STA 6 - Wednesday, 27.11.2013, 17:00 – Hall 1b/0**

*Multimedija / Multimedia*

**Председавајући: МИЛО ТОМАШЕВИЋ и ИГОР ТАРТАЉА**

**Chairpersons: MILO TOMAŠEVIĆ and IGOR TARTALJA**

- 9.37. Đurđević M. Đorđe, Tartalja I. Igor: **Fast CUDA-based Codec for Height Fields (*invited paper*)**
- 9.38. Cristian Perra: **Re-encoding JPEG images for smart phone applications**
- 9.39. Mišić J. Marko, Dašić D. Darija, Tomašević V. Milo: **Analiza primene OpenACC direktiva u implementaciji algoritama za obradu slike**
- 9.40. Kovačević Uroš, Kovačević Jelena, Vukosavljev Saša: **Jedno rešenje programske podrške za parsiranje i vizelizaciju signala sadržanih u TTL datoteci**
- 9.41. Živković Tamara, Živković Miodrag, Algaddafi Khalifa, Branović Irina, Popović Ranko: **3D Virtual laboratory for Wireless Sensor Networks**
- 9.42. Božić Milivoj, Živkov Dušan, Pap Istvan, Miljković Goran: **Scriptable Graphical User Interface engine for embedded platforms**
- 9.43. Mišić Bojan, Bjelica Milan: **Vizuelizacija nivoa signala u mobilnoj mreži**

**CAA 7 - Четвртак, 28.11.2013. године у 8:30 – сала 1b/0**  
**STA 7 - Thursday, 28.11.2013, 8:30 – Hall 1b/0**

**Multimedijalni TV sistemi / Multimedia TV Systems**

**Председавајући: НЕНАД ГРБАНОВИЋ и ГОРАН ДИМИЋ**

**Chairpersons: NENAD GRBANOVIĆ and GORAN DIMIĆ**

- 9.44. Stefanović Aleksandar, Borić Herget Milenko, Maksović Vladimir, Bojić Saša: **Jedno rešenje realizacije IPTV prijemnika digitalnog televizijskog signala zasnovanog na Android platformi**
- 9.45. Tomić Tijana, Timčenko Valentina, Dimić Goran: **HbbTV aplikacija za DVB-T2**
- 9.46. Bjelica Z. Milan, Papp Istvan, Drašković Svetozar, Perišić Stevan, Maksović Vladimir: **Proširenja digitalnog TV prijemnika podrškom za udaljeni nadzor, konfiguraciju i dijagnostiku**
- 9.47. Jelisavčić S. Milan, Tomić Mihailo, Punt Marija, Bjelica Milan, Majstorović Dušan: **Prilagođavanje 3D igre u realnom vremenu za izvršavanje u integrisanom okruženju mobilnih uređaja i TV prijemnika**
- 9.48. Bjelić Vladan, Lukić Nemanja, Kovačević Stojan, Vučelja Milan: **Unapređenje teletext podrške na prijemniku digitalnog televizijskog signala zasnovanog na Android operativnom sistemu**
- 9.49. Tršić Lazar, Veljković Nikola, Punt Marija, Bjelica Milan, Predojević Mladen: **Realizacija računarskog servisa u oblaku za društvene igre za mobilne i TV uređaje**
- 9.50. Šijakov Dušan, Sabo Davor, Mirković Milena, Jan Zloh: **Jedna realizacija aplikacije za personal video recorder**

**CAA 8 - Четвртак, 28.11.2013. године у 11:00 - сала 1b/0**  
**STA 8 - Thursday, 28.11.2013, 11:00 – Hall 1b/0**

**Softverski sistemi / Software Systems**

**Председавајући: БОЈАН ФУРЛАН и БОРИСЛАВ ЂОРЂЕВИЋ**

**Chairpersons: BOJAN FURLAN and BORISLAV ĐORĐEVIĆ**

- 9.51. Ribić Samir, Beganović Maida: **Cross Compilation under Lazarus IDE**
- 9.52. Beljić Željko, Sovilj Platon, Pinter Akoš, Ković Vanja, Pejić Dragan: **Timing in ERP Measurement Software**
- 9.53. Jozef Kolek, Jovanović Zoran, Šljivić Nenad, Narančić Dragan: **Adding microMIPS Backend to the LLVM Compiler Infrastructure**
- 9.54. Đorđević S. Borislav, Timčenko V. Valentina, Vasiljević M. Verica, Andrijašević N. Branka: **Komparacija performansi softvera za virtuelizaciju na MS Windows 7**
- 9.55. Krunić Vlado, Krunić Momčilo, Četić Nenad, Vidović Milovan: **Software for automatic control of laboratory analysis**
- 9.56. Babić Dejan, Sajdl Tomislav, Anđelić Tihomir, Crvenković Nikola: **Rešavanje problema bezbednosti Linuks OS prilikom razvoja aplikacija na namenskim sistemima**
- 9.57. Banjac D. Bojan, Malešević J. Branko, Petrović M. Maja, Obradović Đ. Marija: **A Computer Verification of a Conjecture About The Erdős-Mordell Curve**
- 9.58. Hajdarević Kemal, Smajlagić Haris, Celjo Sead, Tafro Emil: **Deciding on Appropriate VPN Application for Remote Ham Radio Station Network**

**СЕКЦИЈА 10: СТУДЕНТСКА СЕКЦИЈА (С)  
STUDENT PAPERS (S)**

**С 1 - Среда, 27.11.2013. године у 14:30 - сала 9а/0  
S 1 - Wednesday, 27.11.2013, 14:30 – Hall 9a/0**

**Председавајућа: МИЛКА ПОТРЕБИЋ**

**Chairperson: MILKA POTREBIĆ**

- 10.1. Simonovski Maksim, Trajkovik Vladimir: **Use of parallel processing of complex tasks in ad hoc mobile networks**
- 10.2. Nasser Ojaroudiparchin: **A New Design of Koch Feactal Slot Antenna for Ultra-Wideband Applications**
- 10.3. Nasser Ojaroudiparchin: **Small Microstrip-Fed Slot Antenna with Frequency Band-Stop Function**
- 10.4. Nasser Ojaroudiparchin: **Design of Ultra-Wideband Monopole Antenna with Enhanced Bandwidth**
- 10.5. Grković Sava: **Small Balanced Antennas for Bluetooth Applications**
- 10.6. Hadi Saidimanesh, Pejman Ghorbanzade: **Design and Simulation of a Low-Cost X-Band Orthomode Transducer**

**С 2 - Среда, 27.11.2013. године у 17:00 - сала 9а/0  
S 2 - Wednesday, 27.11.2013, 17:00 – Hall 9a/0**

**Председавајући: ЈЕЛЕНА ЋЕРТИЋ и ЗОРАН ЧИЧА**

**Chairperson: JELENA ČERTIĆ and ZORAN ČIČA**

- 10.7. Prodanović Radovan, Miljković Goran: **Jedno rešenje Skype aplikacije kao proširenje Opera Internet pretraživača**
- 10.8. Slijepčević Irena: **Poređenje fault i performance karakteristike menadžment softvera**
- 10.9. Avlijaš Goran, Avlijaš Radoslav, Heleta Milenko: **Prednosti automatizovanog sistema poručivanja u maloprodaji**
- 10.10. Igrić Predrag: **Relaizacija bežičnog prenosa podataka sa mobilnog telefona na ekran informacionog sistema u automobilu**
- 10.11. Marković Ivana: **Proračun kvaliteta usmerenih radio veza na relaciji ripiter-bazna stanica u UMTS mrežama**
- 10.12. Jojić Jovana: **Jedan pristup segmentaciji slika otisaka prstiju**
- 10.13. Bjelić Miloš: **Praktična realizacija elektronskih bubnjeva**
- 10.14. Musić Jasmin: **Aktivni delitelj u opsegu učestanosti od 2,4 GHz do 2,495 GHz**

## INVITED PAPERS

- 4.1. Stošović N. Slavimir, Dimitrijević R. Bojan, Milošević D. Nenad, Nikolić Zorica: **Reduction of the Effect of Carrier Frequency Offset at Orthogonal Frequency Division Multiplexing Systems** (*invited paper*)
- 4.7. Nikolić Z. Bojana, Đorđević T. Goran: **On the Effect of Imperfect Reference Signal Recovery on BER Performance of PSK Receiver in Composite Fading Channel** (*invited paper*)
- 4.14. Cvetković Aleksandra, Đorđević T. Goran: **Outage Performance of Cooperative Relaying Systems in Interference-limited Environment** (*invited paper*)
- 4.21. Jan Mikkelsen, Felice Tafuri, Troels Nielsen, Ming Shen, Wei Wei, Ole Jensen: **The Development of Microwave Power Amplifiers and Nonlinear Measurement Systems – is the Measurement Systems Manufacturer still Lead by the PA Designer?** (*invited paper*)
- 5.1. Kojić S. Nenad: **Implementations of Hopfield neural network in communication networks** (*invited paper*)
- 5.8. Velimirović Lazar, Perić Zoran, Stanković Miomir, Nikolić Jelena: **Design of compandor quantizer using spline approximations** (*invited paper*)
- 5.15. Bojanić Milana, Delić Vlado: **Automatic emotional speech recognition in Serbian language** (*invited paper*)
- 5.22. Despotović Vladimir, Perić Zoran: **Design of Nonlinear Predictors for Adaptive Predictive Coding of Speech Signals** (*invited paper*)
- 7.1. Rančić P. Milica, Aleksić R. Slavoljub: **Analysis of Wire Antenna Structures above Lossy Homogeneous Soil** (*invited paper*)
- 9.37. Đurđević M. Đorđe, Tartalja I. Igor: **Fast CUDA-based Codec for Height Fields** (*invited paper*)



## Indeks – Index

### \*Invited paper

#### A

Abdalla Abdulgader, 4.5  
Acanski Dusan, 8.3  
Al Rasheed Omran, 4.17  
Alayli Yasser, 4.23  
Aleksandravicius Jurgis, 1.7, 1.8  
Aleksić Slavoljub, 7.1\*  
Aleksiejūnas Rimvydas, 1.7, 1.8  
Aliaghazadeh Amid, 4.4  
Aligrudić Ana, 2.18  
Al-Nedawe Basman, 4.19  
Ammar Mahmud, 3.11  
Anđelić Svetlana, 9.15  
Anđelić Tihomir, 9.56  
Andrejević Milan, 8.18  
Andrijašević Branka N., 9.54  
Antić Nikola, 6.15  
Anton Constantin, 4.34  
Antonić Nenad M., 6.23  
Atanasievski Marko, 9.24  
Atlagić Branislav, 9.27  
Avlijaš Goran, 10.9  
Avlijaš Radoslav, 10.9  
Ayub Kamran, 3.2

#### B

Babić Dejan, 9.56  
Babić Đurđa, 8.7  
Bajović Vera, 1.9  
Bakeva Verica, 4.18  
Baktir Ahmet, 1.4  
Baltić Milan Lj., 5.10  
Bandur Đoko V., 4.12  
Bandur Miloš V., 4.12, 5.25  
Banković Lazar, 2.3  
Banović-Čurguz Nataša, 3.8  
Banjac Bojan D., 9.57  
Banjac Zoran, 2.21, 4.20  
Baraković Sabina, 2.9  
Baraković Husić Jasmina, 2.9  
Barbarić Žarko P., 9.26  
Bardek Dejan, 9.19  
Bašičević Ilija, 2.23  
Batanović Vuk, 9.5  
Beganović Maida, 9.51  
Beghdadi Azeddine, 8.17  
Begočić Alen, 2.14  
Behlilović Narcis, 2.14, 4.31  
Beljić Željko, 9.52  
Benkić Karl, 9.2  
Beridze Jemal, 2.26  
Bežanić Nikola, 9.3  
Bilinskis Ivars, 5.11  
Binnie David, 4.16

Birgermajer Slobodan, 2.15  
Bjelić Miloš R., 10.13  
Bjelić Vladan, 9.48  
Bjelica Milan, 6.14, 6.15, 9.43  
Bjelica Milan Z., 9.46, 9.47, 9.49  
Bjelica Ognjen, 9.28  
Blagojević Vesna, 4.9  
Bliznuks Dmitrijs, 3.5  
Bogavac Ivana, 8.20  
Bogić Stevan, 6.4  
Bogičević Branko, 8.1  
Bogojeska Aleksandra, 2.35  
Bojanić Milana, 5.15\*, 5.19  
Bojić Dragan, 9.5, 9.6  
Bojić Saša, 9.44  
Bojković Zoran S., 8.15  
Bojović Zivko, 2.24  
Bokan Dejan, 9.23  
Boole Eugene, 5.11  
Borić-Herget Milenko, 9.14, 9.44  
Borišev Branko, 5.27  
Božić Milivoj, 9.42  
Božilović Boško, 2.17, 4.30  
Božović Mihajlo, 6.7  
Božović Rade, 2.4  
Brajović Miloš, 5.13  
Branović Irina, 9.17, 9.41  
Brčić Petar, 9.16  
Brenkuš Juraj, 4.6  
Brett Marko, 8.3  
Brkić Bogdan, 9.32  
Brkić Srdjan, 4.17, 4.28  
Brković Milenko, 3.10  
Broulím Jan, 4.33, 6.9, 6.24  
Broulím Pavel, 6.28  
Bucur Diana, 7.16  
Buhafa Adel, 4.19  
Butca Cristina, 4.22  
Butković Asmir, 9.20

#### C, Č, Ć

Cagneau Barthélemy, 4.23  
Cailean Alin, 4.23  
Čajić Miroslav, 9.32  
Čakir Oguzhan, 5.2  
Capozzoli Amedeo, 7.12  
Čelar Stipe, 9.1, 9.18  
Čelebić Vladimir, 6.10, 8.25  
Čelić Radovan, 6.3  
Celjo Sead, 9.58  
Četić Nenad, 9.14, 9.19, 9.23, 9.55  
Četković Mića, 8.6, 9.24  
Chaikalis Konstantinos, 1.1  
Chassagne Luc, 4.23  
Chatzimichailidou Maria Mikela, 1.5  
Chen Ken, 8.17  
Čiča Zoran, 2.4

Cikovskis Lauris, 2.25  
Čirić Dejan, 8.18, 8.21  
Cmiljanović Gordana, 10.7  
Cojocar Romeo, 5.23  
Crăciunescu Răzvan, 4.3  
Cretu Vladimir, 4.11  
Crnojević-Bengin Vesna, 2.15  
Crvenković Nikola, 9.56  
Cselyuszká Norbert, 2.15  
Čubrilo Miljan, 8.6  
Čudina Mirko, 5.17, 5.18, 8.24  
Curcio Claudio, 7.12  
Cvetic Jovan M., 7.11  
Cvetičanin Nikola, 4.30  
Cvetković Aleksandra, 4.14\*, 4.15  
Cvetković Zlata Ž., 5.14

#### D, Dž, Đ

Dadić Ivan, 1.3  
Daković Miloš, 5.13  
Dariz Luca, 4.24  
Dašić Darija D., 9.39  
Dedić Nešić Snežana, 5.28  
Delić Vlado D., 5.15\*, 5.16  
Descamps Philippe, 6.6  
Despotović Vladimir, 5.22\*  
Dimian Mihai, 4.23  
Dimić Goran, 9.45  
Dimitrijević Bojan, 4.1\*  
Dimou Maria, 1.1  
Dimovski Dušanka, 6.4  
Divanović Soko, 2.7, 2.19  
Djinevski Leonid, 2.20  
Djordjević Goran Lj., 4.25  
Djukic Ilija P., 6.29, 8.2  
Djurić Radivoje, 6.7  
Dobrijević Ljiljana, 8.20  
Đorđević Borislav S., 9.54  
Đorđević Dragana, 8.16  
Đorđević Goran T., 4.7\*, 4.8, 4.14\*, 4.15, 4.28, 8.12  
Draganić Andjela, 8.10  
Drago Roberto, 5.21  
Drajić Dejan, 4.10  
Drašković Aleksandar, 5.13  
Drašković Svetozar, 9.46  
Dražić Miroslava, 8.16  
Drca Srdjan, 8.2  
Dujković Dragi M., 5.28  
Đukić Jovan, 6.4  
Đukić Miroslav L., 3.12, 3.13  
Đurđević Đorđe, 9.37\*  
Džajić Miloš, 2.5  
Dzakula Radomir, 8.2  
Dzindzeleta Bronislovas, 1.7, 1.8

## E

Ebrahimzadeh Attaollah, 7.7  
Elis Ludek, 6.16, 6.17, 6.18,  
6.19  
Emami Hosein, 7.14  
Erbay Öktem, 1.4  
Erić Miljko, 3.7, 3.10  
Eslami Mohsen, 4.4

## F

Fanan Anuar, 3.11  
Fanti Alessandro, 7.6  
Fantuzzi Cesare, 3.5  
Farana Radim, 9.31  
Fazekas Péter, 2.12  
Fazel Sina, 2.31  
Fedin Dmitrii, 2.29  
Felix Hugo, 2.33  
Filiposka Sonja, 2.20, 2.35  
Filipović Jovana, 8.7  
Filjar Renato, 1.3  
Frnda Jaroslav, 8.8

## G

Gadžović Almir, 6.20  
Gajica Jovanka, 6.10, 8.25  
Gajin Slavko, 2.24  
Gardasevic Gordana, 2.19  
Gavrilovska Daniela, 1.6  
Gendelis Stanislavs, 6.8  
Georgiev Vjačeslav, 4.33,  
6.9  
Georgieva Ivanka, 2.11  
Ghazisaidi Navid, 2.26  
Gholami Reza, 7.7  
Ghorbanzade Pejman, 10.6  
Giusto Daniele, 7.6  
Glesk Ivan, 2.32  
Gontean Aurel, 9.22, 9.29  
Grbić Tatjana P., 5.16  
Greitans Modris, 6.8  
Grković Sava B., 9.25, 10.5  
Grubišić Lenkica, 5.28  
Grunde Uldis, 6.1, 6.8  
Gubanov Vladimir, 7.15  
Gutierrez Jose M., 2.34  
Gyepes Gábor, 4.6

## H

Hadžialić Mesud, 2.9  
Hajdarevic Kemal, 9.58  
Halunga Simona, 3.3, 4.3,  
4.22  
Hashemi Ali, 7.14  
Heleta Milenko, 10.9  
Herceg Dejana, 1.9  
Hintea Sorin, 6.25  
Holik Michael, 6.9  
Horváth Géza, 2.12  
Huseinović Alvin, 9.35  
Huseinović Kemal, 1.10

## I

Idris Siti, 2.32  
Ignjatov Nemanja, 8.6  
Ignjatovic Milan D., 7.11  
Igrić Predrag, 10.10  
Ikonić Nikola, 9.24  
Ilić Aleksandar D., 5.14  
Ilić Andjelija Ž., 7.4  
Ilić Marko, 6.27  
Ilić Milan M., 7.4  
Ilić Velibor, 9.23  
Ilić-Delibasic Maja, 3.1  
Ilišević Dijana, 3.8  
Ionescu Laurențiu, 4.34  
Iordache Andrei Vasile, 2.28  
Ivanciu Laura-Nicoleta, 6.25  
Ivaniš Predrag, 4.9, 4.17,  
4.28

## J

Jagodić Dijana, 3.16  
Jakovics Andris, 6.8  
Jakovlev Sergej, 5.20  
Jakovljević Nikša M., 5.16  
Janevski Toni, 2.22  
Jang Yeonsoo, 5.7  
Janković Marko, 8.21  
Janković Milica M., 9.34  
Janković Nikolina, 2.15  
Janković Strahinja, 6.30  
Janković Zoran, 9.32  
Janjić Miloš, 3.10, 4.2  
Jarrouj Jiana, 4.9  
Jaume-i-Capo Antoni, 8.14  
Jelačić Bojan, 9.11  
Jelisavčić Milan S., 9.47  
Jelovac Vladimir, 9.24  
Jensen Michael, 2.34  
Jensen Ole, 4.21\*  
Jojić Jovana, 10.12  
Jokić Srđan, 7.17  
Joldzic Ognjen V., 9.9, 9.10  
Jorjoliani David, 2.26  
Jovanov Nevena, 8.4  
Jovanović Ana, 7.8  
Jovanović Milica D., 4.25  
Jovanović Nenad, 8.4  
Jovanović Saša, 5.6  
Jovanović Zoran, 5.6, 9.53  
Jurić Željko, 5.29  
Juskauskas Mantas, 1.8

## K

Kafedziski Venceslav, 5.3  
Kafshgari Shaghayegh, 5.4  
Kalman Gyorgy, 4.27  
Kansanen Kimmo, 4.15  
Karadimou Magdalini, 1.1  
Karinou Fotini, 2.30  
Karnyanszky Tiberiu M.,  
5.24  
Kasaš-Lažetić Karolina, 1.9

Kashmadze Kakha, 2.26  
Kaštelan Ivan, 9.33, 9.36  
Kaya Ismail, 5.2  
Khalifa Algaddafi, 9.17,  
9.41  
Khorramian Mreza, 7.9  
Kirtava Zviad, 2.26  
Klarin Karmen, 9.1  
Klimov Alexey, 7.15  
Kocan Enis, 3.4  
Kocarev Ljupco, 2.35  
Kocić Jelena, 6.12  
Kojic Nenad, 5.1\*  
Kokoulin Andrew, 5.26  
Kolek Jozef, 9.53  
Kolundzija Branko M., 7.2,  
7.3  
Koljević Marković Ana,  
9.34  
Konev Vladimir, 7.15  
Kos Anton, 9.12  
Kosić Bojan D., 6.23  
Kosmajac Dijana, 9.30  
Kostić Vladimir, 2.8  
Kostović Žarko, 2.23  
Kosturik Kamil, 6.16, 6.17,  
6.18, 6.19, 6.22,  
Kovacevic Jelena, 6.29,  
9.14, 9.19, 9.23, 9.40,  
Kovačević Saša, 1.10  
Kovačević Stojan, 9.48  
Kovačević Uroš, 9.40  
Kovalchuk Oleg, 7.15  
Ković Vanja, 9.52  
Kozhevnikov Vasily, 7.15  
Kozyrev Andrey, 7.15  
Krajnović Nenad, 2.1  
Kraus Vaclav, 6.9  
Krčo Srđan, 4.10  
Krivka Jindrich, 6.16, 6.17,  
6.18, 6.19  
Krivochiza Jevgenij, 1.7, 1.8  
Krnetá Aleksandra J., 7.2,  
7.3  
Krunić Momčilo, 9.8, 9.55  
Krunić Vlado, 9.55  
Kukolj Dragan, 8.16  
Külahoğlu Yılmaz Can, 1.4  
Kuleto Valentin, 9.15  
Kuzmanović Majda, 5.6  
Kvrgić Vladimir, 9.6, 9.21

## L, Lj

Lacrama Dan L., 5.24  
Lagunov Alexey, 2.29  
Lale Srđan, 9.28  
Lazović Luka, 7.8  
Lekić Nedeljko, 6.20  
Lepers Catherine, 2.31  
Leporis Milko, 5.27  
Letvenčuk Ivan, 9.8  
Liepins Martins, 6.21

Lim Hyeongyong, 5.7  
Linhart Richard, 6.28  
Lipar Primož, 5.17, 5.21  
Liseno Angelo, 7.12  
Lohan Simona, 3.3  
Lourdiane Mounia, 2.31  
Lukač Duško, 1.5  
Lukač Željko, 9.33, 9.36  
Lukić Nemanja, 8.2, 9.48  
Lutovac Maja M., 9.6, 9.21  
Lutovac Miroslav D., 9.26  
Lutvica Kemal, 5.29  
Lyashev Vladimir, 4.32

## M

Maagh Stefan, 4.16  
Mairgiotis Antonis, 8.9  
Majdak Aleksandar, 6.3  
Majer Libor, 4.6  
Majstorović Dušan, 4.26, 9.47  
Maksimović Mirjana, 9.30  
Maksović Vladimir, 9.44, 9.46  
Malaguti Giorgio, 4.24  
Malešević Branko J., 9.57  
Mandžuka Sadko, 2.2  
Manea Oana, 4.3  
Manojlović Predrag, 7.10  
Mao Bangning, 2.30  
Marghescu Ion, 2.28  
Marković Goran B., 3.12, 3.13  
Marković Ivana, 10.11  
Marković Ivana P., 9.7  
Marković Slavoljub A., 7.11  
Markovski Smile, 4.18  
Martian Alexandru, 3.9, 4.22  
Maruna Tomislav, 8.5  
Marušić Željko, 9.18  
Mašović Draško, 8.22, 8.23  
Mather Peter, 4.19  
Maugars Philippe, 6.6  
Mazăre Alin, 4.34  
Mehdawi Meftah, 3.11  
Mehic Miralem, 5.20, 8.8  
Metin Bilgin, 1.4  
Mezerins Armands, 5.11  
Micallef Paul, 5.21  
Micea Mihai, 4.11  
Mihailović Veljko, 8.7  
Mihálov Jozef, 4.6  
Mihaylov Dimitar, 2.34  
Mihelić France, 5.17  
Mihic Velibor, 8.1  
Mijić Miomir, 8.22, 8.23, 8.25  
Mikkelsen Jan, 4.21\*  
Milanović Mihajlo, 6.14  
Milanović Milan D., 6.23  
Milanović Milos, 8.5  
Milić Dejan, 4.13

Milićević Predrag, 2.21, 4.20  
Milićević Saša, 2.17, 2.21, 4.20  
Milićević Zoran M., 8.15  
Milošević Nenad, 4.1\*  
Milutinović Veljko, 9.12  
Miljanović Dejan M., 9.25  
Miljković Goran, 8.1, 9.42, 10.7  
Minja Aleksandar, 4.29  
Mirković Milena, 9.50  
Mishkovski Igor, 2.20, 2.35  
Mišić Bojan, 9.43  
Mišić Marko J., 9.39  
Mišković Dragiša M., 5.16  
Mista Davorin, 6.30  
Mohseni Reza, 5.4  
Moldaschl Jan, 4.33, 6.24  
Moura Gregory, 3.15  
Mrazovac Bojan, 5.6  
Mrđović Saša, 4.31, 9.20  
Mujačić Samra, 9.20  
Musić Jasmin E., 7.5, 10.14  
Muškatirović-Zekić Tamara, 3.17  
Mušović Jasmin, 1.10  
Musu Claudia, 7.6

## N, Nj

Nagy Lukas, 6.5  
Narančić Dragan, 9.53  
Nedeljković Ljubiša, 2.6  
Nenadić Nikola, 6.10  
Nenov Georgi A., 5.9  
Nešković Nataša, 4.2  
Nguyen Trieu Luan Le, 6.6  
Nicolae Irina-Emilia, 5.23  
Nielsen Troels, 4.21\*  
Nikolić Bojana Z., 4.7\*  
Nikolic Jelena, 5.8\*  
Nikolić Marko V., 6.23  
Nikolic Milos M., 6.29  
Nikolić Zorica, 4.1\*  
Ninkovic Nemanja M., 2.24  
Novkovic Teodora, 8.3

## O

Obradović Marija Đ., 9.57  
Obradović Miroslav, 4.30  
Očovaj Stanislav, 2.23, 8.4  
Odalović Miloš, 2.13  
Odalović Strahinja, 9.34  
Oh Byunghoon, 5.7  
Ojaroudiparchin Nasser, 10.2, 10.3, 10.4  
Olćan Dragan I., 7.5  
Oliveira Duarte Manuel, 2.33  
Omerasevic Damir, 4.31  
Orfanus Dalimir, 4.27  
Orlandić Milica, 6.2  
Orlić Vladimir, 4.20, 2.21

Orović Irena, 5.12, 8.10, 8.11  
Osadola Tolulope, 2.32  
Oseledets Ivan, 4.32  
Osmić Nedim, 5.29  
Ostojić Ivana, 8.16  
Ostrogonac Stevan, 5.19  
Otsetova-Dudin Ekaterina, 2.10

## P

Pajer Ondřej, 2.27  
Pajkanovic Aleksandar, 6.26  
Pakoci Edvin T., 5.16, 5.19  
Paločko Lukáš, 4.33, 6.24  
Pantelejev Anatolij, 1.7  
Papaefthimiou Konstantinos, 2.34  
Papanikolaou Alexandros, 1.1  
Papathanasiou Anastasios, 1.1  
Papp Istvan, 4.26, 6.3, 9.42, 9.46  
Park Seri, 8.11  
Partila Pavol, 5.20  
Paskaš Milorad, 5.28  
Pavković Miloš, 9.4  
Pavliček Vladimír, 6.28  
Pavlović Branimir, 8.5  
Pavlovic Dragan M., 7.11  
Pavlović Marko, 6.10  
Pavlović Vlastimir D., 5.14  
Pejanovic-Djurisic Milica, 2.18, 3.1, 3.4  
Pejić Dragan, 9.52  
Pejoski Slavche, 5.3  
Peković Vukota, 5.27  
Perenda Erma, 2.9  
Peric Dragana, 3.6  
Perić Miroslav, 2.21, 3.6, 4.20, 4.30  
Perić Zoran, 5.8\*, 5.22\*, 8.21  
Perišić Stevan, 9.46  
Perra Cristian, 9.13, 9.38  
Pescaru Dan, 4.11  
Pešović Uroš, 3.16  
Petković Milica I., 4.8  
Petrica Lucian, 3.9  
Petrov Ivan, 2.22  
Petrović Ivan, 8.5  
Petrović Maja M., 9.57  
Petrović Strahinja, 9.33, 9.36  
Petrovic Vladimir, 6.27  
Petrovic Vladimir V., 7.2, 7.3  
Peulić Aleksandar, 9.2  
Pijetlović Stefan, 8.4  
Pilipović Miloš, 6.4  
Pintea Florentina A., 5.24

Pinter Akoš, 9.52  
Pjevalica Nebojsa U., 6.29  
Pokrić Maja, 8.16  
Ponjavić Milan, 5.10  
Popescu Dan, 5.23  
Popović Brankica M., 4.12, 5.25  
Popović Dejan B., 9.34  
Popović Ivan, 9.3  
Popović Milica, 4.10  
Popović Miroslav, 2.23  
Popović Nenad, 7.10  
Popović Ranko, 9.17, 9.41  
Popović Zoran, 4.13  
Popović-Božović Jelena, 6.12  
Popovska-Mitrovikj Aleksandra, 4.18  
Potrebić Milka M., 7.13, 9.25  
Považan Ivan, 9.8  
Prasad Ramjee, 3.1  
Preda Radu Ovidiu, 4.3  
Predojević Mladen, 9.49  
Prezelj Jurij, 5.17, 5.18, 8.24  
Prodanović Radovan, 10.7  
Protić Jelica, 9.4, 9.21  
Prtvar Bojan, 8.6  
Punt Marija, 9.47, 9.49  
Pušman Lukáš, 6.22  
Puzović Snežana, 2.17

## R

Radev Dimitar, 2.10, 2.11  
Radeva Svetla, 2.10, 2.11  
Radonjic Milutin, 2.19  
Radosavljević Vladimir, 9.33, 9.36  
Radović Bojan, 8.1  
Radu Octavian, 3.9  
Radulović Milan, 6.10  
Radunovic Vladimir J., 1.2  
Radusinović Igor, 2.19, 2.13, 6.20  
Raičević Anđelija M., 5.25  
Rakić Aleksandar Ž., 5.10  
Rancic Milica, 7.1\*  
Randelović Dragan, 5.25  
Randić Siniša, 3.16  
Ranković Vukašin, 9.12  
Reljin Irini, 5.28, 8.13  
Rešetar Ivan, 4.26  
Retrouvey Jean-Marie, 6.6  
Ribić Samir, 9.35, 9.51  
Riley Nick, 3.11  
Rozhon Jan, 8.8  
Ruggeri Massimiliano, 4.24

## S, Š

Sabo Davor, 9.50  
Sagi Mihaly, 9.27  
Saidimanesh Hadi, 10.6  
Sajdl Tomislav, 9.56

Salama Safwan, 4.5  
Salkovic Elvis, 3.4  
Salom Iva, 6.10, 8.25  
Salom Radek, 2.27  
Samardžija Dragan, 2.3, 5.27  
Samčović Andreja, 8.14  
Sarajlic Asaf, 4.31  
Saranovac Lazar, 6.30  
Sarhadi Amirhossein, 7.14  
Savarese Salvatore, 7.12  
Savić Milan, 4.26  
Schatten Markus, 2.2  
Schoof Gunter, 6.27  
Šekara Tomislav, 7.17  
Šenk Vojin, 4.29  
Šerban Gheorghe, 4.34  
Šeremet Željko, 9.18  
Severdaks Aivars, 6.21  
Ševrović Marko, 1.3  
Shamanadze Omar, 2.26  
Sharp John, 4.16  
Shen Ming, 4.21\*  
Sibanda Clifford, 2.36  
Sibley Martin, 4.19  
Šijakov Dušan, 9.50  
Simić Mirjana, 3.17  
Simić Mitar, 6.13, 7.17  
Simonović Mirela, 6.30  
Simonovski Maksim, 10.1  
Sinobad Milan, 2.8  
Škaljo Namir, 2.14  
Skorput Pero, 2.2  
Slijepčević Irena, 10.8  
Šljivić Nenad, 9.53  
Smajlagić Haris, 9.58  
Šmidling Bojan, 2.16  
Smiljanić Aleksandra, 2.4  
Smimite Abderrahmane, 8.17  
Sochor Tomas, 9.31  
Soeser Peter, 6.25  
Sovilj Platon, 9.52  
Spasojević Danijel, 4.26  
Spiteri Trevor, 5.21  
Stamenkovic Zoran, 6.27  
Stangaciu Valentin, 4.11  
Stanić Mihailo, 2.8  
Stanivuk Stefan, 9.14  
Stanković Jelena Z., 9.7  
Stanković Jovica M., 9.7  
Stanković Ljubiša, 5.12, 5.13  
Stankovic Miomir, 5.8\*  
Stanković Srdjan, 5.12, 8.10, 8.11  
Stanojević Ivan, 4.29  
Stanojlović Ivana, 9.8  
Šteblaj Peter, 5.17, 5.18, 8.24  
Stefanović Aleksandar, 9.44  
Stefanović Hana, 4.13

Stefanović Radiša, 2.6  
Stefanovski Snežana Lj., 7.13, 9.25  
Stetka Petr, 6.16, 6.17, 6.18, 6.19  
Stoja Sebastijan, 9.11  
Stojanović Igor Z., 4.25  
Stojanovic Nebojsa, 2.30  
Stojković Željko M., 6.23  
Stopjaková Viera, 4.6, 6.5  
Stošović Slavimir, 4.1\*  
Suciu George, 4.22  
Šumarac Pavlović Dragana, 8.22, 8.23  
Šutić Davor, 9.27  
Suzić Siniša, 5.19  
Svarstad Kjetil, 6.2  
Svirskas Kestutis, 1.7, 1.8  
Szabó Roland, 9.22, 9.29

## T

Tadic Srdjan, 3.15, 6.11  
Tafro Emil, 9.58  
Tafari Felice, 4.21\*  
Taghipour Javad, 5.5  
Tartalja Igor, 9.37\*  
Tefera Yonas, 2.34  
Temerinac Miodrag, 9.33, 9.36  
Tešanović-Stojanović Branka, 2.17  
Timčenko Valentina V., 9.45, 9.54  
Todoran Gyorgy, 4.22  
Todorović Branislav, 2.5  
Todorović Dejan, 8.25  
Todorović Miloš J., 2.1  
Toma Corneliu I., 5.24  
Tomašević Milo V., 9.39  
Tomažič Sašo, 9.12  
Tomić Mihailo, 9.47  
Tomić Tijana, 9.45  
Topsu Suat, 4.23  
Tošić Dejan V., 7.13, 9.25  
Trajanov Dimitar, 1.6, 2.20  
Trajkovic Vladimir, 10.1  
Trichaud Thierry, 3.15  
Trifunović Bojan, 8.7  
Trifunović Dragan, 8.6  
Tršić Lazar, 9.49  
Tsvetanov Filip, 2.11  
Turić Mili, 9.18  
Tutănescu Ion, 4.34  
Uram Matej, 4.6  
Urošević Uglješa, 2.7

## V

Vakili Vahid Tabataba, 5.5  
Vasić Bane, 4.17, 4.28, 8.12  
Vasić Bata, 8.12  
Vasiljević Verica M., 9.54  
Vedin Vadim, 5.11  
Veinović Mladen, 9.32

Velimirovic Lazar, 5.8\*  
Veljković Nikola, 9.49  
Veljović Zoran, 2.7, 7.8  
Ventzas Dimitrios, 8.9  
Videnovic-Misic Mirjana,  
6.26  
Vidović Milovan, 9.55  
Vlachos Vasileios, 1.1  
Vlasek Jakub, 6.16, 6.18,  
6.19  
Voicu Carmen, 3.3, 4.3, 4.22  
Vojnović Milan, 8.19, 8.20  
Voznak Miroslav, 5.20, 8.8  
Vranić Nikola, 6.3, 8.3  
Vrga Nenad, 9.19  
Vucelja Milan, 9.48  
Vučić Desimir, 3.7  
Vujić Dejan S., 3.14  
Vujičić Dejan, 3.16  
Vujović Vladimir, 9.30  
Vukajlović Milan B., 6.11  
Vukmirović Srđan, 9.11  
Vukosavljev Saša, 9.40  
Vukovic Dijana R., 9.9

## **W**

Wei Wei, 4.21\*

## **Y**

Yazgan Ayhan, 5.2  
Yoon Dongweon, 5.7

## **Z, Ž**

Zagurskis Valerijs, 3.2, 3.5  
Zahour Jiri, 6.16, 6.17, 6.18,  
6.19  
Zakeri Bijan, 7.7, 7.9  
Zdraveski Vladimir, 1.6  
Zdravković Nemanja M.,  
4.8, 4.15  
Zdravković Babić Sanja,  
10.7  
Zeković Amela, 8.13  
Zetik Rudolf, 3.7  
Zheng Delai, 4.32  
Zilinskas Mindaugas, 1.7,  
1.8  
Živkov Dušan, 9.42  
Živković Miodrag, 9.17,  
9.41  
Živković Tamara, 9.41  
Živojnović Vojin, 6.30  
Zličić Aleksandar, 8.7  
Zloh Jan, 9.50  
Zogović Nikola, 2.16  
Zolfaghari Hamas, 3.11  
Zverelo Jevgenij, 1.7