

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

**ТЕЛФОР 2012**

***TELFOR 2012***



**ПРОГРАМ**

***PROGRAM***

**Београд, 20, 21. и 22. новембар 2012. године**  
***Belgrade, 20, 21 and 22 November 2012***

**Сава Центар**  
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**TIME TABLE**  
**Telecommunications Forum TELFOR 2012**

**20<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**

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

Room Time	3/1	4/1	5/1	6/1	3/0
14:30-16:45	CS 1 4.1-4.9	Commercial presentations	RC 1 3.1-3.8	SP 1 5.1-5.9	SS1 SS1.1-SS1.3 + Presentations
17:00-19:15	CS 2 4.10-4.18		RC 2 3.9-3.16	SP 2 5.10-5.17	TN 7 2.45-2.54

Room Time	1/0	1a/0	1b/0	Japan salon/1	9a/0
14:30-16:45	SPECIAL SESSIONS FOR COMPANIES	PRS 1 1.1-1.9	STA 1 10.1-10.9	TECHNICAL & INFORMATION PRESENTATIONS	MM 1 9.1-9.8
17:00-19:15		PRS 2 1.10-1.18	STA 2 10.10-10.18		

**21<sup>st</sup> November, Wednesday morning**

Room Time	3/1	4/1	5/1	6/1	3/0
8:30-10:45	CS 3 4.19-4.27	Commercial presentations	RC 3 3.17-3.23	SP 4 5.28-5.37	MM 2 9.9-9.15
11:00-13:15	CS 4 4.28-4.36		RC 4 3.24-3.30	SP 3 5.18-5.27	AEM 1 8.1-8.10

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 10.19-10.27	TECHNICAL & INFORMATION PRESENTATIONS	S 1 11.1-11.7
11:00-13:15		TN 2 2.9-2.17	STA 4 10.28-10.37		AEL 1 7.1-7.8

## 21<sup>st</sup> November, Wednesday afternoon

Room Time	3/1	4/1	5/1	6/1	3/0
14:30-16:45	AEL 2 7.9-7.16	Commercial presentations	RC 5 3.31-3.38	SP 5 5.38-5.44	AEM 2 8.11-8.20
17:00-19:15	AEL 3 7.17-7.24			SP 6 5.45-5.54	MM 3 9.16-9.22

Room Time	1/0	1a/0	1b/0	Japan salon/1	9a/0
14.30-17.00	SPECIAL SESSIONS FOR COMPANIES	TN 3 2.18-2.24	STA 5 10.38-10.46	TECHNICAL & INFORMATION PRESENTATIONS	STA 6 10.47-10.56
17.00-19.15		TN 4 2.25-2.32	STA 7 10.57-10.66		S 2 11.8-11.15

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

Room Time	3/1	4/1	5/1	6/1	3/0
8:30-10:45	OC 1 6.1-6.12	Commercial presentations	AEL 4 7.25-7.33	SP 7 5.55-5.62	MM 4 9.23-9.28
11:00-13:15	CS 5 4.37-4.45		AEL 5 7.34-7.41		AEM 3 8.21-8.30

Room Time	1/0	1a/0	1b/0	Japan salon/1	9a/0
8:30-10:45		TN 5 2.33-2.38	STA 8 10.67-10.76		S3 11.16-11.20
11:00-13.15		TN 6 2.39-2.44	STA 9 10.77-10.86		MM 5 9.29-9.36

Section 1	Policy, Regulatory Aspects and Services in Com.	Room 1a/0	PRS 1-2
Section 2	Telecommunications Networks	Room 3/0	TN 7, Room 1a/0 TN 1-6
Section 3	Radio Communications	Room 5/1	RC 1-5
Section 4	Communications Systems	Room 3/1	CS 1-5
Section 5	Signal Processing	Room 6/1	SP 1-7
Section 6	Optical Communications	Room 3/1	OC 1
Section 7	Applied Electronics	Room 9a/0	AEL1, Room 3/1 AEL 2,3, Room 5/1 AEL 4,5
Section 8	Applied Electromagnetics	Room 3/0	AEM 1-3
Section 9	Multimedia	Room 9a/0	MM 1, MM 5, Room 3/0 MM 2-4
Section 10	Software Tools and Applications	Room 1b/0	STA 1-5, 7 Room 9a/0 STA 6
Section 11	Student Papers	Room 9a/0	S 1-3
Special Session		Room 3/0	SS1

- **Room 1/0 – Special Sessions for Companies**, international and domestic companies and institutions presentations (see the detailed program);
- **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**

**САТНИЦА**  
**Телекомуникациони форум ТЕЛФОР 2012**

**20. новембар, уторак пре подне**

**9:00 Почетак регистрације учесника, Регистрациони пулт, хол Сава центра**

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

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

**20. новембар, уторак после подне**

Сала Време	3/1	4/1	5/1	6/1	3/0
14:30-16:45	СПС 1 4.1-4.9	Комерцијалне презентације	РК 1 3.1-3.8	ОС 1 5.1-5.9	СС 1 СС1.1-СС 1.3 + презентације
17:00-19:15	СПС 2 4.10-4.18		РК 2 3.9-3.16	ОС 2 5.10-5.17	ТМ 7 2.45-2.54

Сала Време	1/0	1а/0	1б/0	Јапански салон/1	9а/0
14:30-16:45	ПОСЕБНЕ СЕКЦИЈЕ КОМПАНИЈА	ПРУ 1 1.1-1.9	САА 1 10.1-10.9	ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ	ММ 1 9.1-9.8
17:00-19:15		ПРУ 2 1.10-1.18	САА 2 10.10-10.18		

**21. новембар, среда пре подне**

Сала Време	3/1	4/1	5/1	6/1	3/0
8:30-10:45	СПС 3 4.19-4.27	Комерцијалне презентације	РК 3 3.17-3.23	ОС 4 5.28-5.37	ММ 2 9.9-9.15
11:00-13:15	СПС 4 4.28-4.36		РК 4 3.24-3.30	ОС 3 5.18-5.27	ПЕМ 1 8.1-8.10

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 10.19-10.27	ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ	С 1 11.1-11.7
11:00-13:15		ТМ 2 2.9-2.17	САА 4 10.28-10.37		ПЕЛ 1 7.1-7.8

## 21. новембар, среда после подне

Сала Време	3/1	4/1	5/1	6/1	3/0
14:30-16:45	ПЕЛ 2 7.9-7.16	Комерцијалне презентације	РК 5 3.31-3.38	ОС 5 5.38-5.44	ПЕМ 2 8.11-8.20
17:00-19:15	ПЕЛ 3 7.17-7.24			ОС 6 5.45-5.54	ММ 3 9.16-9.22

Сала Време	1/0	1a/0	1b/0	Јапански салон/1	9a/0
14.30-17.00	ПОСЕБНЕ СЕКЦИЈЕ КОМПАНИЈА	ТМ 3 2.18-2.24	САА 5 10.38-10.46	ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ	САА 6 10.47-10.56
17.00-19.15		ТМ 4 2.25-2.32	САА 7 10.57-10.66		С 2 11.8-11.15

## 22. новембар, четвртак пре подне

Сала Време	3/1	4/1	5/1	6/1	3/0
8:30-10:45	ОТ 1 6.1-6.12	Комерцијалне презентације	ПЕЛ 4 7.25-7.33	ОС 7 5.55-5.62	ММ 4 9.23-9.28
11:00-13:15	СПС 5 4.37-4.45		ПЕЛ 5 7.34-7.41		ПЕМ 3 8.21-8.30

Сала Време	1/0	1a/0	1b/0	Јапански салон/1	9a/0
8:30-10:45		ТМ 5 2.33-2.38	САА 8 10.67-10.76		С3 11.16-11.20
11:00-13.15		ТМ 6 2.39-2.44	САА 9 10.77-10.86		ММ 5 9.29-9.36

Секција 1 Политика, регулатива и услуге у телеком.

Секција 2 Телекомуникационе мреже

Секција 3 Радио-комуникације

Секција 4 Системи преноса сигнала

Секција 5 Обрада сигнала

Секција 6 Оптичке телекомуникације

Секција 7 Примењена електроника

Секција 8 Примењена електромагнетика

Секција 9 Мултимедија

Секција 10 Софтверски алати и апликације

Секција 11 Студентска секција

Специјална секција

Сала 1a/0 ПРУ 1-2

Сала 3/0 ТМ 7, сала 1a/0 ТМ 1-6

Сала 5/1 РК 1-5

Сала 3/1 СПС 1-5

Сала 6/1 ОС 1-7

Сала 3/1 ОТ 1

Сала 9a/0 ПЕЛ 1, с. 3/1 ПЕЛ 2,3, с. 5/1 ПЕЛ 4,5

Сала 3/0 ПЕМ 1-3

Сала 9a/0 ММ 1, ММ 5, сала 3/0 ММ 2-4

Сала 1b/0 САА 1-5, 7, сала 9a/0 САА 6

Сала 9a/0 С 1-3

Сала 3/0 СС 1

- 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
- Централни хол Сава центра – Регистрациони пулт, изложбе (видети детаљан програм у наставку)
- Сала 9/0 – Контакт сала, састанци

# TELFOR 2012

## **СВЕЧАНО ОТВАРАЊЕ - Opening Ceremony**

Уторак 20.11.2012. године, 10:30 часова

*Tuesday 20<sup>nd</sup> November, 2012, 10:30 a.m.*

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

## **ПЛЕНАРНА СЕДНИЦА - Plenary Session**

**Уводне речи - Introduction**

**Поздравне речи - Welcome Messages**

**Признања - Recognitions**

**Предавање по позиву - Invited Presentation**

*Joao Picoito,*

*President for South, Central and Eastern Europe Region*

*Nokia Siemens Network*

**„MAKING MONEY WITH MOBILE BROADBAND“**

**Завршне речи - Conclusions**

Председник Управног одбора – *Chairman of the Steering Committee*

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

**Коктел добродошлице - Welcome Reception**

Домаћини – *Hosts*

**Друштво за телекомуникације – *Telecommunications Society***

***HUAWEI***



SPECIAL EVENTS PROGRAM  
**ПРОГРАМ ПОСЕБНИХ ДОГАЂАЈА**

**MAIN HALL 1/0 / САЛА 1/0**

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

*November 20, Tuesday afternoon / 20. Новембар, уторак после подне*

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

- *Topic/Тема: Safe City i e- Governance*  
*Presenter/Предавач: Dr Vladimir Orlić, Vlatacom*
- *Topic/Тема: LTE+TETRA Unified strategy*  
*Presenter/Предавач: Marian Sramko, Motorola Solutions*
- *Topic/Тема: Safer City*  
*Presenter/Предавач: Laszlo Magyar, NEC Eastern Europe*
- *Topic/Тема: ICT u Srbiji: Saradnja kao preduslov razvoja*  
*Presenter/Предавач: Dr Vladimir Orlić, Vlatacom*

**15:00-15:55 IRITEL - 45 godina iskustva za budućnost**

- *Topic/Тема: 45 godina IRITEL-a*  
*Presenter/Предавач: Lazar Trpković*
- *Topic/Тема: Sadašnji trenutak IRITEL-a*  
*Presenter/Предавач: Dragan Kovačević*
- *Topic/Тема: Multiservisna OTN/DWDM platforma za protoke do 10Gb/s*  
*Presenter/Предавач: Predrag Mićović*
- *Topic/Тема: Sistem za daljinski nadzor i upravljanje SDNU*  
*Presenter/Предавач: Miroslav Lazić*

**16:00-16:55 NOKIA SIEMENS NETWORKS**

- *Topic/Тема: Small Cells and Smart WLAN Solution*  
*Presenter/Предавач: Rastko Blagojević*  
Nokia Siemens Networks features wide portfolio of platforms and products for small cells solutions. FlexiZone is most rewarded one, but Smart WLAN connectivity is one of the most wanted in 2012, where operators seek to provide excellent performance at better price, and offload their 3G network at the same time.
- *Topic/Тема: Customer Experience Management*  
*Presenter/Предавач: Francesca Sartori*

Nokia Siemens Networks Customer Experience Management (CEM) solution enables Operators to generate insight about the experiences and preferences of individual customers or segments based on the existing data in the Operator's network and IT systems, and uses it to prioritize and take action at individual or segment level that results in a better customer experience and business outcome.

#### **17:00-18:55 HUAWEI – Broader Way**

- *Topic/Тема:* **Huawei Hybrid IPTV platforma – demonstration of IPTV solution in multi-screen environment with android STB**
- *Topic/Тема:* **Future of wireless access - LTE technology, development trends and the results worldwide**
- *Topic/Тема:* **Future of fixed access - FTTx + xDSL vectoring and Giga DSL – future of fixed broadband access**

*November 21, Wednesday morning / 21. Новембар, среда пре подне*

#### **10:00-10:55 VIP mobile**

- *Topic/Тема:* **Rezultati testiranja VIP-ove LTE mreže**
- *Topic/Тема:* **Primena MSCinPool u mreži VIP mobile**

#### **11:00-11:55 TELEKOM Srbija**

- *Topic/Тема:* **Razvoj širokopojasnog pristupa: od pokrivenosti do kvaliteta**  
*Presenters/Предавачи:* **Dr Aleksandra Gajić i Đorđe Marović**

#### **12:00-12:55 Ibis Instruments and Rohde&Schwarz**

*Topic/Тема:* **Secure Communication – Encrypted Voice and Data Communication**

#### **13:00-13:55 ERICSSON**

- *Topic/Тема:* **Customer Experience and Business Models in the Networked Society**  
*Presenter/Предавач:* **Sebastian Lind, Ericsson**

How to evolove OSS/BSS to keep your customers informed and empowered in real time, using all the intelligence, from network to customer behavior.

Realize innovation through efficient business processes supported by modular and configurable OSS/BSS. Designed for a changing world, full of new business potential.

*November 21, Wednesday afternoon / 21. Новембар, среда после подне*

#### **14:00-14:55 IBM**

- *Topic/Тема:* **IBM DWH/Big Data platforma i DWH iskustva u Telekomu Srbija**  
*Presenter/Предавач:* **Mladen Jovanovski–IBM, Gavro Nikezić–Telekom Srbija**

#### **15:00-15:55 TELEKOM Srbija**

- *Topic/Тема:* **Implementacija SLA za korisnike Telekom Srbija**  
*Presenters/Предавачи:* **Aleksandra Pušica Spasić, Zoran Bugarski, Srđan Bojičić i Violeta Milosavljević**

## JAPAN SALON/1 / JAPANSKI SALON/1

### TECHNICAL AND INFORMATION PRESENTATIONS ТЕХНИЧКЕ И ИНФОРМАЦИОНЕ ПРЕЗЕНТАЦИЈЕ

*November 20, Tuesday afternoon / 20. Новембар, уторак после подне*

**14:00-14:55** TELEGROUP and MOTOROLA MOBILITY

- *Topic/Тема:* **TeleGroup - Motorola Mobility Solutions for Digital Multimedia Experience – Encoders, Cherry Picker and HFC Network Solutions**  
*Presenters/Предавачи:* **Admir Hadžimahović, Motorola Mobility, and Jobst Matthias Muehlbach, Motorola Mobility**

**15:00-15:55** BIT PROJEKT and CORNING CABLE SYSTEMS

- *Topic/Тема:* **Uvodna reč**  
*Presenter/Предавач:* **Slobodan Pavlović, Bit Projekt**
- *Topic/Тема:* **The highway to 40/100 Gb inside the Datacenter**  
*Presenter/Предавач:* **Nicolas Zerbib, Corning Cable Systems**  
Corning Cable Systems vision of the Optical Trends in the Data Centre - higher and higher bandwidth requirements  
Next Generation 40G/100G Data Center Optics Using Multimode Fiber - Standards  
Power. Density. Cost - Emerging technologies  
Corning recent innovations in terms of Datacenter cabling solutions - Clearcurve, Edge2, Tap module : the benefits for OPEX

**16:00-16:55** EKONOMSKI FAKULTET BEOGRAD / RATEL

- *Topic/Тема:* **Analiza finansijskih performansi sektora Telekomunikacija u republici Srbiji**

*Presenters/Предавачи:* **Prof. dr Dejan Malinić, prof. dr Vlade Milićević**

Nakon obezbeđivanja regulatornog okvira za potrebe liberalizacije tržišta telekomunikacija u Republici Srbiji i njegovog sprovođenja u praksi od strane Republičke agencije za elektronske komunikacije (RATEL), stekli su se potrebni uslovi da se za vremenski period koji obuhvata pet poslednjih poslovnih godina analiziraju finansijske performanse sektora telekomunikacija i tako najbolje ocene efekti uloženi naporu u uređenje ovog tržišta. Polazeći od specifičnosti sektora, predmet ovog napisa jeste ocena kvaliteta finansijske strukture, analiza i ocena kratkoročne i dugoročne finansijske sigurnosti, zatim analiza finansijskih rizika kojima su izloženi vlasnici, investitori i poverioci, analiza i ocena profitabilnosti, i konačno, prezentovanje finansijskih projekcija mogućnosti rasta i razvoja sektora telekomunikacija u bliskoj budućnosti. Istovremeno, razmatranje pomenutih tema omogućice da se na zdravim osnovama sagleda relativni položaj ovog sektora u privredi Republike Srbije. Kao podloga za ovo istraživanje poslužiće oficijelni finansijski izveštaji oko 450 privrednih subjekata koji prema evidenciji Agencije za privredne registre čine oblast 061- Telekomunikacije, iako bi se ona nesmetano, imajući u vidu njen širi društveni značaj, mogla nazvati sektorom što autori u nastavku ovog napisa i čine.

**Ključne reči:** Kratkoročna finansijska sigurnost (likvidnost), dugoročna finansijska sigurnost (solventnost), finansijski rizici, zaduženost, profitabilnost, finansijski leveridž, rast.

**17:00-17:55** VLATACOM d.o.o

**November 21, Wednesday morning / 21. Новембар, среда пре подне**

**10:00-10 :55** Invited Technical presentation

- **Topic/Тема: UWB Channel Sounding - Results and Experience of Ilmenau University of Technology**

1

**Presenter/Предавач: Dr Rudolf Zetik**

Ultra-wideband systems are often discussed as a very prospective technology for short range indoor communication and radar sensing applications. These systems benefit from the large frequency band of several GHz. The large frequency band results in an excellent multipath resistance and enables precise localization. This makes ultra-wideband radio one of the most promising technologies that combines indoor communication systems with integrated localization and tracking application. The proper design of such communication and sensing systems requires knowledge of propagation characteristics in application specific radio environments. We describe a real-time ultra-wideband channel sounder that is based on a pseudo-random noise binary stimulation signal. It operates in real-time and offers capability of MIMO measurements. Accept of conventional channel sounding applications it is suitable for analysis of ultra-wideband localization and tracking systems. We demonstrate its performance on a number of measurement examples.

**11:00-11 :55** Invited Technical presentation

- **Topic/Тема: Future of the Image and Video Compression**

**Presenter/Предавач: Prof. Dr Jordan Isailović**

A new High Efficiency Video Coding (HEVC) standard, expected to be known also as H.265 and MPEG-H Part 2, is on the way. HEVC provides a significantly higher coding performance than MPEG-2 and MPEG-4 Part 10/AVC/H.264, especially for high-resolution video. HEVC also includes various technologies to enable parallel encoding/decoding and to simplify implementation. Although the modules of HEVC exist in AVC, almost every module has been re-evaluated, and many new and exciting state-of-the-art coding tools have been introduced. Many ideas behind such tools, whether accepted or not, are novel and inspiring to the research community. HEVC also presents many new challenges, including encoding optimization, mode decision, rate-control, hardware design, and error concealment, especially given its large and hierarchical block structure and significantly increased number of coding parameters.

In DTV, the HEVC application in broadcasting depends on the infrastructure for the previous digital broadcast standard. Are transmitter infrastructure and receiver base widely used? How soon will set-top boxes be commercially available and at what price? Is it reasonable to use terrestrial broadcast systems considering the level of their use and alternative DTV systems? How long should one standard last?

Video and image compression for mobile: how to pass an elephant through a garden hose? Demo: 2 kbit voice and facial compression.

Everything in nature has fundamental limits, including video compression. How far are we from that limit?

**12:00-13 :55** Prikaz rezultata projekata finansiranih od strane Ministarstva prosvete, nauke i tehnološkog razvoja u oblasti elektronike, telekomunikacija i informacionih tehnologija I

**Projekat FTN, ETF sa IC, EF, RT-RK**

1. Razvoj digitalnih tehnologija i umreženih servisa u sistemima sa ugrađenim elektronskim komponentama III 044009 FTN (*prezentacija M.Temerinac*)

**Projekti RT-RK i FTN Novi Sad**

2. Razvoj metodologije testiranja softvera u multimedijalnim sistemima TR 032014 (*prezentacija N.Teslić*)
3. Programaska podrška i alati u višejezgarskim sistemima TR 032031 FTN (*prezentacija N.Bašičević/M.Popović*)
4. Razvoj programske podrške za sažimanje podataka zasnovan na metodama računarske inteligencije TR 032034 FTN (*prezentacija D.Kukolj*)
5. Autonomne senzorske mreže sa distribuiranim upravljanjem TR 036029 RT-RK (*prezentacija D.Samardžija*)
6. Razvoj interaktivnih servisa za uređaje u kući TR 032041 RT-RK (*prezentacija B.Mrazovac, M.Bjelica, I.Papp, I.Dotlić*)

7. Razvoj metodologije za estimaciju video kvaliteta u multimedijalnim sistemima TR 032029 RT-RK (*prezentacija M.Pokrić, J.Kovačević*)
8. Razvoj platforme za edukaciju u oblasti ugrađenih elektronskih sistema TR 032042 RT-RK (*prezentacija B.Todorović, I.kaštelan*)

**November 21, Wednesday afternoon / 21. Новембар, среда после подне**

**14:00-15 :55** Prikaz rezultata projekata finansiranih od strane Ministarstva prosvete, nauke i tehnološkog razvoja u oblasti elektronike, telekomunikacija i informacionih tehnologija II

1. **Mitić Dragan, IRITEL, 32007**  
Multiservisna optička transportna platforma OTN10/40/100 Gbps sa DWDM/ROADM i Carrier Ethernet funkcionalnostima
2. **Miroslav Lutovac, Singidunum, 32023**  
Optimizacija performansi energetski-efikasnih računarskih i komunikacionih sistema
3. **Branka Jokanović, Institut za fiziku, 32024**  
Rekonfigurabilne multiband i skenirane antene na bazi metamaterijala za bežične komunikacione sisteme i senzore
4. **Mirjana Stojanović, Saobraćajni fakultet, 32025**  
Razvoj novih metoda i alata za unapređenje performansi, mrežne i ekonomske efikasnosti telekomunikacionih mreža naredne generacije
5. **Predrag Ivaniš, ETF, 32028**  
Napredne tehnike efikasnog korišćenja spectra u bežičnim sistemima
6. **Vlado Delić, FTN Novi Sad, 32035**  
Razvoj dijaloških sistema za srpski i druge južnoslovenske jezike
7. **Željko Đurović, ETF, 32038**  
Povećanje energetske efikasnosti i raspoloživosti u sistemima za proizvodnju i prenos električne energije razvojem novih metoda za dijagnostiku i ranu detekciju otkaza
8. **Irić Reljin, ETF, 32048**  
Razvoj visokokvalitetnih uređaja posebne namene na bazi novih tehnologija kristalnih jedinki
9. **Predrag Petrović, IRITEL, 32051**  
Razvoj i realizacija naredne generacije sistema, uređaja i softvera na bazi softverskog radija za radio i radarske mreže
10. **Bratislav Milovanović, Elektronski fakultet Niš, 32052**  
Istraživanje i razvoj rešenja za poboljšavanje performansi bežičnih komunikacionih sistema u mikrotalasnom i milimetarskom opsegu frekvencija
11. **Vladimir Krstić, IIM, 32037**  
Istraživanje i razvoj robusnih sistema za prenos podataka i njihova primena u korporativnim mrežama

**16:00-16 :55 Tehnička prezentacija po pozivu**

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

U toku prezentacije se izlažu iskustva i prikaz koncepta i zaključaka II ciklusa serije od 10 stručnih predavanja iz oblasti *telekomunikacionih mreža i sistema u objektima* realizovanih u teku 2011. i 2012. godine. Ciljevi serije predavanja su bili da se elektroinženjeri upoznaju sa izmenama, uporede iskustva i donesu relevantne zaključke o stanju neophodne zakonske regulative i standarda, tehnologiji, opremi i SW za projektovanje prisutnim na domaćem tržištu kao i sa realizovanim projektima kod nas i u svetu za specifične objekte i tehnologije u industriji. Navedeni ciklus predavanja je realizovan uz podršku više institucija i programa (5 predavanja - u okviru programa Regionalnog odbora Beograd podsekcija elektroinženjera Inženjerske komore Srbije, 3 predavanja uz podršku sekcije projekatara pri udruženju za privatno obezbeđenje pri PKS i 2 predavanja uz podršku IMP Automatika.

Ključne reči: telekomunikacione mreže i sistemi, projektovanje

**ИЗЛОЖБА/EXHIBITION**

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

**Аутор/Author**

**Милорад Јовановић, Музеј ПТТ**

***Milorad Jovanović, PTT Museum***

**Јединице везе Српске војске у Балканским ратовима 1912-1913.**

***Serbian Army Communication Troops in the Balkan Wars 1912-1913***

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

# ПРОГРАМ СПЕЦИЈАЛНИХ, РЕГУЛАРНИХ И СТУДЕНТСКИХ СЕКЦИЈА

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

### СПЕЦИЈАЛНЕ СЕКЦИЈЕ / *SPECIAL SESSIONS*

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

#### *M2M (Machine to Machine) & IoT (Internet of Things) Evolution*

CC1 - Уторак, 20.11.2012. године у 14:30 - сала 3/0 SS1 - Tuesday, 20.11.2012, 14:30 – Hall 3/0
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Председавајући/Chairman: SRĐAN KRČO, ERICSSON D.O.O

- SS1.1. Nemanja Ognjanović, Telekom Srbija a.d. - **EXALTED FP7 project presentation**
- SS1.2. Nenad Gligorić, Tomislav Dimčić, Dejan Drajić, Srđan Krčo, Igor Dejanović, Nhon Chu, Aleksandar Obradović: **“CoAP over SMS Performance Evaluation for Machine to Machine Communication”**.
- SS1.3. Nenad Gligorić, Tomislav Dimčić, Dejan Drajić, Srđan Krčo, Nhon Chu: **“Application-Layer Security Mechanism for M2M communication over SMS”**
- SS1.4. Milica Popović, Telekom Srbija a.d. - **LOLA FP7 project presentation**
- SS1.5. Dejan Drajić, Milica Popović, Navid Nikaein, Srđan Krčo, Philipp Svoboda, Igor Tomić, Nenad Zeljkiović: **“HSPA radio access performance evaluation for Online games and M2M applications traffic (TCP vs UDP)”**
- SS1.6. Toma Dimčić, Ericsson d.o.o. - **HOBNET FP7 project presentation**
- SS1.7. Boris Pokrić, Ericsson d.o.o. - **IoT6 FP7 project presentation**
- SS1.8. Stevan Jokić, Ericsson d.o.o. - **SMARTSANTANDER FP7 project presentation**
- SS1.9. Milena Jovašević-Stojanović, VINČA Institute of Nuclear Science - **CitySense FP7 project presentation**

# ПРОГРАМ РЕГУЛАРНИХ И СТУДЕНТСКИХ СЕКЦИЈА *REGULAR AND STUDENT SECTIONS' PROGRAM*

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

**ПРУ 1 - Уторак, 20.11.2012. године у 14:30 - сала 1а/1**  
*PRS 1 - Tuesday, 20.11.2012, 14:30 – Hall 1a/1*

### Политика и регулатива у телекомуникацијама

### *Telecommunications Policy and Regulatory Aspects*

**Председавајући: КАЈДАР КУБОА и НАТАША ГОСПИЋ**

*Chairpersons: KAYDAR QUBOA and NATAŠA GOSPIĆ*

- 1.1. Bariq Abaou, Kaydar Quboa: **Environmental Safety Standards and WLAN Indoor Propagation**
- 1.2. Herceg Dejana, Kasas-Lazetić Karolina, Đurić Nikola, Bajović Vera: **Regulations on EMF Exposure in Serbia and Its Neighboring Countries**
- 1.3. Hadžović Suada, Šerval Dragana: **Regulatory methods to foster NGA deployment**
- 1.4. Szydelko Michal: **Business model analysis for the spectrum spot market scenario**
- 1.5. Ćosić Zoran, Ćosić Jasmina: **Business impact analysis & methodology of risk analysis as the most important aspects within operational continuity process defining**
- 1.6. Begić Kenan, Tanović Anel: **Improvement of implementation of ISO-IEC 20000 Edition 2 standard in IT systems of Telecom operator through comparison with ITIL V3 best practices**
- 1.7. Tanović Anel: **Improvement of the eTOM standard through the comparison with ITL V3 best practices**
- 1.8. Asić Maida, Bajrami Emran, Tanović Anel: **Improvement of the eTOM Operations phase through the comparison with ITIL best practices**
- 1.9. Krtalić Antonija, Tomas Božo: **Recognizing key determinants of the position of middle management in a telecommunications company**

**ПРУ 2 - Уторак, 20.11.2012. године у 17:00 - сала 1а/0**  
*PRS 2 - Tuesday, 20.11.2012, 17:00 – Hall 1a/1*

### Политика и услуге у телекомуникацијама

### *Telecommunications Policy and Services*

**Председавајући: ОСТАВИАН ФРАТУ и ЖЕЉЕН ТРПОВСКИ**

*Chairpersons: OCTAVIAN FRATU and ŽELJEN TRPOVSKI*

- 1.10. Lukač Duško, Rogić Miroslav, Rihter Jelena, Mikela Chatzimichailidou Maria: **Open Innovation Model in the ICT Industry – The Case of the German Telekom**



- 1.11. Kapetanović Selma, Ribić Samir: **The Analysis of Implementing the Ipv6 Protocol in Bosnia and Herzegovina**
- 1.12. M. GhasemiNajm, M. J. N. Sibley, A. Jafarian: **Combination of LTE and IMS to deliver location based services**
- 1.13. Bogojević Dragan, Gospić Nataša, Murić Goran: **Broadband Universal Services and Access: trends and models**
- 1.14. Kavran Zvonko, Grgurević Ivan, Milinović Tomislav: **Korištenje telekomunikacijskih usluga studentske populacije**
- 1.15. Šarboh Snežana: **Prijave patenata Nikole Tesle u SAD za koje mu nisu bili odobreni patenti**
- 1.16. Novaković Jasmina: **Protection of Property Rights in Computer Software**
- 1.17. Novaković Jasmina: **Responsibility in Application of ICT as Legal, Moral and Ethical Issues**
- 1.18. Janković Dejan: **Key security measures for personal data protection in IT systems**

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

**ТМ 1 - Среда, 21.11.2012. године у 8:30 – сала 1а/0**  
*TN 1 - Wednesday, 21.11.2012, 8:30 – Hall 1a/0*

### **Бежичне локалне мреже - Wireless LAN**

**Председавајућа: НАТАША НЕШКОВИЋ**  
*Chairperson: NATAŠA NEŠKOVIĆ*

- 2.1. Stojanoski Peco, Bogdanoski Mitko, Risteski Aleksandar: **Wireless Local Area Network Behavior under RTS Flood DoS Attack**
- 2.2. Janevski Toni, Pelivanoska Kristina: **Performance evaluation during handover in WLAN network with different transport protocol variants**
- 2.3. Janevski Toni, Jakimoski Kire: **Mobility sensitive algorithm for vertical handovers from WiMAX to WLAN**
- 2.4. Hossam Fahmy, Salma Ghoneim: **Performance Comparison of Wireless Networks over Ipv6 and Ipv4**
- 2.5. Janevski Toni, Petrov Ivan: **TCP Analysis in Multihop Wireless Environment**
- 2.6. Shuminoski Tomislav, Janevski Toni: **Novel Adaptive QoS Framework for Integrated Wireless and Mobile Networks**
- 2.7. Otsetova-Dudin Ekaterina, Radeva Svetla, Radev Dimitar: **Modelling and Simulation of Wireless Cellular Networks**
- 2.8. Tepšić Dejan, Veinović Mladen: **Komparativna analiza UDP propusnog opsega IPv4 i IPv6 operativnih sistema u IEEE 802.11n bežičnim mrežama zaštićenim WPA2 sigurnosnim protokolom**

**ТМ 2 - Среда, 21.11.2012. године у 11:00 - сала 1а/0**  
*TN 2 - Wednesday, 21.11.2012, 11:00 – Hall 1a/0*

### **IP bazirana rešenja – IP based solutions**

**Председавајући: НЕНАД КРАЈНОВИЋ**  
*Chairperson: NENAD KRAJNOVIĆ*

- 2.9. Mujčić Edin, Oračević Alma: **Correction of Position Error in Internet-Based Teleoperation**

- 2.10. Božilović Boško, Nešković Aleksandar: **Estimation of Maximal Number of HTTP Users in a TETRA cell**
- 2.11. Janevski Toni, Ademi Neslihan: **Performance Study of SCTP in Wireless Environment**
- 2.12. Vigo Roberto, Yüksel Ender, Dewi Puspa Kencana Ramli Carroline: **Smart Grid Security A Smart Meter-Centric Perspective**
- 2.13. Karras Dimitrios: **On Defining an Hierarchical Secure Proxy Agent Architecture for Embedded Communication Network Applications**
- 2.14. Androulidakis Iosif: **On a Malware Targeting Private Telephony During Cyber Conflict**
- 2.15. Lučkin Haris, Škrbić Mirko, Lučkin Emina: **A proposed eGovernment architecture based on Open Source components in Federation of Bosnia and Herzegovina**
- 2.16. Palibrk Jovana, Ivanović Ivan: **Nadgledanje RADIUS infrastrukture**
- 2.17. Stević Darko, Janković Miloš, Lazić Srđan, Pešterac Bojan, Đorđević Aleksandar, Miladinović Gordana, Vulović Đorđe: **Pilot testiranje povezivanja TETRA baznih stanica preko IP I 3G linkova**

**TM 3 - Среда, 21.11.2012. године у 14:30 - сала 1a/0**  
*TN 3 - Wednesday, 21.11.2012, 14:30 – Hall 1a/0*

**Mobilne bežične mreže – Mobile wireless networks**

**Председавајући: ДЕЈАН ДРАЈИЋ**

***Chairperson: DEJAN DRAJIĆ***

- 2.18. Munteanu Maria, Lojewski George: **A performance comparison between LTE and UMTS technologies in the 900 MHz spectrum**
- 2.19. Munteanu Maria, Lojewski George: **A performance comparison between LTE and UMTS technologies in the 2100 MHz sepctrum**
- 2.20. Simić Mirko: **Feasibility of Long Term Evolution (LTE) as Technology for Public Safety**
- 2.21. Tsvetanov Filip, Radev Dimitar, Otsetova-Dudin Ekaterina, Radeva Svetla: **Rare Event Simulation for a Handover Priority Scheme**
- 2.22. Piljanović Katarina, Aksić Milutin: **“Play MMS”:** **A new service in mobile communications**
- 2.23. Damić Damjan: **Challenges in Deploying the 3GPP Policy and Charging Control Framework**
- 2.24. Sibanda Clifford, Bagula Antoine: **Network Selection for Mobile Nodes in heterogeneous Wireless Networks using Knapsack problem Dynamic Algorithms**

**TM 4 - Среда, 21.11.2012. године у 17:00 - сала 1a/0**  
*TN 4 - Wednesday, 21.11.2012, 17:00 – Hall 1a/0*

**Senzorske mreže – Sensor networks**

**Председавајућа: МИРЈАНА СТОЈАНОВИЋ**

***Chairperson: MIRJANA STOJANOVIĆ***

- 2.25. Kosanović Mirko, Stojčev Mile: **Sensor Node Lifetime Prolonging**
- 2.26. Imtiaz Rasool, Ion Tudorache, Naveed Salman, Andrew Kemp: **Range Filtration Algorithm for Wireless Sensor Networks**
- 2.27. Hamed Alimohammadi, Mehdi Dehghan: **A Low Overhead Stability-Aware Multipath Routing Protocol for MANETs**

- 2.28. Kashif Khan, Qi Wang, Christos Grecos: **Experimental Framework of Integrated Cloudlets and Wireless Mesh Networks**
- 2.29. Šalom Radek, Kašpar Petr, Blecha Tomáš, Freisleben Jaroslav, Bartovský Jan, Krist Petr, Hamáček Aleš: **Implementation of AODV Routing Protocol in Sensor Wireless Networks**
- 2.30. Ali Sagheer, Hadeel Taher: **Identity Based Cryptography for Secure AODV Routing Protocol**
- 2.31. W. Hadj Alouane, N. Hamdi, S. Meherzi: **Analytical BEP expressions of Incremental and Selective AdmF protocols in Cooperative Wireless Networks**
- 2.32. Jakšić Olga, Jakšić Zoran, Randelović Danijela, Čupić Željko, Kolar-Anić Ljiljana: **The Poissonian Nature of Adsorption-Desorption Processes**

**TM 5 - Четвртак, 22.11.2012. године у 8:30 – сала 1а/0**  
*TN 5 - Thursday, 22.11.2012, 8:30 – Hall 1a/0*

**Interna arhitektura komunikacionih sistema**

**Internal architecture of communication systems**

**Председавајућа: АЛЕКСАНДРА СМИЉНИЋ**

***Chairperson: ALEKSANDRA SMILJANIĆ***

- 2.33. Radonjić Milutin, Radusinović Igor: **CQ Switch Performance Analysis from the Point of Buffer Size and Scheduling Aligthms (Rad po pozivu/ Invited Paper)**
- 2.34. Čiča Zoran: **Analysis and Implementation of Packet Processing Functions in Internet Routers (Rad po pozivu / Invited paper)**
- 2.35. Divanović Soko, Kovačević Vidak, Radonjić Milutin, Yoshigoe Kenji, Radusinović Igor: **Crosspoint Queued Switch Performance Analysis under Multicast Traffic**
- 2.36. Ceco Afan, Nosović Novica, Bradić Kenan: **Performance Comparison of Active Queue Management Algotihsm**
- 2.37. Hazem El-Gendy, Magdy Amer, Osman Ibrahim: **Towards Modeling of Communications Protocols**
- 2.38. M. Bashar, M. Wslami, M. J. Dehghani, M. Rasti: **Simplified SVD-BD Technique for Cellular Downlink with Coordinated Multi-Point Transmission**

**TM 6 - Четвртак, 22.11.2012. године у 11:00 - сала 1а/0**  
*TN 6 - Thursday, 22.11.2012, 11:00 – Hall 1a/0*

**Komunikacije po energetskim vodovima, Energetska efikasnost u telekomunikacijama**

**Power line communications, Energy efficient communications**

**Председавајућа: ЉИЉАНА ТРАЈКОВИЋ**

***Chairperson: LJILJANA TRAJKOVIĆ***

- 2.39. Bogdanović Mario, Rupčić Slavko: **Generalized Background Noise Modeling in Power line Communication**
- 2.40. Horvat Goran, Balkić Zoran, Žagar Drago: **Power Line Communication Throughput Analysis for Use in Last Mile Rural Broadband**
- 2.41. Bogdanović Mario: **Computer Based Simulation Model Realization of OFDM Communication over Power Lines**
- 2.42. Suša Vladimir, Bajčetić Jovan, Pavlović Boban: **Mogućnosti povezivanja MX ONE TSW Aastra sistema i MTIS Thales radnih stanica u mobilnom scenariju**

- 2.43. Stamenković Saša: **Mogućnosti za unapređenje energetske efikasnosti u telekomunikacionim mrežama**
- 2.44. Ilić Isidora: **Analiza mogućnosti za uštedu energije primenom standarda IEEE 802.3az**

**TM 7 - Уторак, 20.11.2012. године у 17:00 - сала 3/0**  
*TN 6 - Tuesday, 20.11.2012, 17:00 – Hall 3/0*

**Iskustva telekomunikacionih operatora**

**Telecommunication operators best practices**

**Председавајући: ЖАРКО МАРКОВ**

***Chairperson: ŽARKO MARKOV***

- 2.45. Tadić Igor, Milošević Vladimir: **Analiza raspoloživosti mreže za Operativno područje Sarajevo**
- 2.46. Stojanović Zvezdan, Jokić Boris: **Kvalitet servisa kod mreže za realizaciju triple play-a**
- 2.47. Biberović Elmedin: **Praktično rešenje skraćanja pretplatničke petlje na teritoriji Sjenice**
- 2.48. Šćepanović Velimir, Kopitović Đuro: **Hibridni kablovi STFK tip I**
- 2.49. Michael Jensen, Jose M. Gutierrez: **Upper Bound Performance Estimation for Copper Based Broadband Access**
- 2.50. Škaljo Namir, Begović Alen, Behlilović Narcis: **Analysis of Impact of Adjacent Local Loops on Some significant DSL Transceivers Parameters**
- 2.51. Škaljo Namir, Goran Nermin, Begović Alen: **Simplified Scenario of Testing DSL Lines Delivering Triple Play Services**
- 2.52. Jukić O., Heđi I.: **The use of call detail records and data mart dimensioning for telecommunication companies**
- 2.53. Stanić Mihailo, Knežević Petar, Leštar Branka: **SUNCE+ modul za OTN – osnovne osobine**
- 2.54. Radivojević Ninko, Mićović Predrag, Kostić Vladimir: **SyncE I PTP 1588v2 funkcionalnosti u OTN/DWDM platformi OTP 10G IRITEL**

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

**РК 1 - Уторак, 20.11.2012. године у 14:30 - сала 5/1**  
*RC 1 - Tuesday, 20.11.2012, 14:30 – Hall 5/1*

**Председавајућа: SIMONA HALUNGA и НЕНАД МИЛОШЕВИЋ**

***Chairperson: SIMONA HALUNGA and NENAD MILOŠEVIĆ***

- 3.1. Jalal Abdulsayed Srar, Kah-Seng Chung, Ali Mansour: **LLMS Adaptive Beamforming Algorithm Implemented with Finite Precision**
- 3.2. Popovska Avramova Andrijana, Ying Yan, Lars Dittmann: **Cross layer scheduling algorithm for LTE Downlink**
- 3.3. Emna Ben Yahia, Nouredine Hamdi: **The BEP of Incremental Cooperative OSTBC MIMO systems using Decode and Forward protocol**
- 3.4. Fariborz Eslampanahi Mahmoudi, Stuart Walker: **Orbital Angular Momentum Generation in a 60-GHz Wireless Radio Channel**
- 3.5. Lauris Cikovskis, Sergejs Vdovins, Ilmars Slaidins: **On Optimal Video Transmission over Multiple Paths in Wireless Ad-Hoc Networks**

- 3.6. José Carlos Reyes-Guerrero, Gordan Sisul, Luis Antonio Mariscal-Rico: **Measuring and Estimating the Propagation Path Loss and Shadowing Effects for Marine Wireless Sensor Networks at 5.8 GHZ**
- 3.7. Ibiyemi T. S, Ajewole M. O, Ojo J. S, Obiyemi O.O.: **Rain Rate and Rain Attenuation Prediction with Experimental Rain Attenuation Efforts in South-Western Nigeria**
- 3.8. Pejovski Slavche, Kafedziski Venceslav: **Multiple speaker/microphone platform as an educational tool for wireless communications**

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

**Председавајући: ЗОРАН ВЕЉОВИЋ и ГОРАН ЂОРЂЕВИЋ**

*Chairpersons: ZORAN VELJOVIĆ and GORAN ĐORĐEVIĆ*

- 3.9. Veletić Mladen, Šunjevarić Milan: **Optimal Positioning in UMTS Using Least Mean Squares Algorithm on Circular Lateration**
- 3.10. Borenović Miloš, Nešković Aleksandar: **Base Station Positioning Using Statistical Averaging of Ray Intersection Points**
- 3.11. Erić Miljko, Zetik Rudolf, Dukić Miroslav, Vučić Desimir: **Method for Direct Self-Localization of Synchronous IR UWB Node(s) in Indoor Scenario: Experimental Verification**
- 3.12. Salković Elvis, Kočan Enis, Pejanović-Đurišić Milica: **Performance of Dual-Hop OFDM DF Relay System in Presence of Intercarrier Interference**
- 3.13. Urošević Uglješa, Veljović Zoran, Simunić Dina, Radusinović Igor: **A Solution for Performance Improvements of OFDM-CDMA System with Pilot Tone**
- 3.14. Božović Rade: **Analiza BER performansi u OFDM sistemima u zavisnosti od tipa modulacije, dužine i tipa zaštitnih intervala i u različitim uslovima propagacije**
- 3.15. Nikčević Jelena, Nešković Nataša: **Analiza energetski efikasnog MAC protokola za bežične senzorske mreže**
- 3.16. Vukotić Selena, Božić Jovana, Vučić Desimir: **Ciklična detekcija i klasifikacija signala primenom skrivenih Markovljevih modela**

**PK 3 - Среда, 21.11.2012. године у 8:30 - сала 5/1**  
*RC 3 - Wednesday, 21.11.2012, 8:30 – Hall 5/1*

**Председавајући: БУРАЂ БУДИМИР**

*Chairperson: ĐURAĐ BUDIMIR*

- 3.17. Ahmed Hussein, Saad Luhaib: **Designing E-Shape Microstrip Patch Antenna in Multilayer Structures for WiFi 5GHz Network**
- 3.18. Atanasković Aleksandar, Maleš-Ilić Nataša, Milovanović Bratislav: **Linearization of Asymmetrical Two-way Doherty Amplifier**
- 3.19. Bukvić B., Nešković N., Budimir Đ.: **Reconfigurable RF Power Amplifiers for Wireless Transmitters**
- 3.20. Pešović Uroš, Glič Dušan, Planinšič Peter, Stamenković Zoran, Randić Siniša: **Implementation of IEEE 802.15.4 transceiver on software defined radio platform**
- 3.21. M. Abou ElEla: **Low Cost and Simple RFID System**
- 3.22. Draganov Stojanovski Toni, Marina Ninoslav: **Secure Wireless Communications via Exhaustive Cooperative Jamming Against a Single Eavesdropper**
- 3.23. Safa Hamdoun, Nouredine Hamdi: **Joint Switched Selection-Combining Diversity and Incremental Amplify-and-Forward Relaying over Rayleigh Fading Channels**

**PK 4 - Среда, 21.11.2012. године у 11:00 - сала 5/1**  
*RC 4 - Wednesday, 21.11.2012, 11:00 – Hall 5/1*

**Председавајући: ТОНИ ЈАНЕВСКИ**

*Chairperson: TONI JANEVSKI*

- 3.24. Orlić Vladimir, Dukić Miroslav: **Automatic Modulation Classification: Sixth-order Cumulant Features as a Solution for Real-world Challenges (Rad po pozivu / Invited Paper)**
- 3.25. Marković Goran, Dukić Miroslav: **Cooperative AMC Schemes Using Cumulants with Hard and Soft Decision Fusion**
- 3.26. Perić Miroslav, Perić Dragana, Todorović Branislav, Šunjevarić Milan, Popović Miroslav: **Quality Merit for Performances Optimization in IP Radio-Relay Network Above 70GHz**
- 3.27. Perić Dragana, Todorović Branislav: **Realization of Novel Routing Protocols for IP Radio Networks above 70 GHz in MPLS**
- 3.28. Kočan Enis, Pejanović-Đurišić Milica, Karagiannidis George: **New Solution for BER Performance Improvement of OFDM AF Relay Systems**
- 3.29. Seyyid Dilek, Anilcan Ayranci, Anil Şeker, Osman Ceylan, Bulent Yagci: **AX.25 Protocol Compatible Reconfigurable 2/4 FSK Modulator Design for Nano/Micro-Satellites**
- 3.30. Balkoski Jovana, Bordoni Federica: **Nadir echo properties, a study based on TerraSAR-X data**

**PK 5 - Среда, 21.11.2012. године у 14:30 - сала 5/1**  
*RC 5 – Wednesday, 21.11.2012, 14:30 – Hall 5/1*

**Председавајући: АЛЕКСАНДАР НЕШКОВИЋ**

*Chairperson: ALEKSANDAR NEŠKOVIĆ*

- 3.31. Marković Goran, Dukić Miroslav: **Klasifikacija radio signala po tipu modulacije na bazi kumulanata sa više uzastopnih pokušaja**
- 3.32. Petrić Majda, Nešković Aleksandar, Nešković Nataša: **Pozicioniranje mobilnih GSM i UMTS korisnika korišćenjem Support Vector Regression metode**
- 3.33. Maksimović Zoran, Jevtić Nemanja, Bjelica Milan: **Personalizovana aplikacija za mobilne terminale zasnovana na lokacijskim servisima**
- 3.34. Rastovac Dragan, Vukobratović Dejan: **Modelovanje LTE-A kanala pomoću FSMC modela za OFDM sisteme**
- 3.35. Međedović Petar, Blagojević Željko, Šuka Darko: **Softverska predikcija i mjerenje elektromagnetnog zračenja u gradu Banjaluci**
- 3.36. Nenadić Dušan, Mrazovac Bojan: **Metod za pasivnu detekciju prisustva ljudi inkrementalnom analizom baznih komponenti indikatora snage radio signala**
- 3.37. Muškatirović-Zekić Tamara: **Monitoring radio frekvencijskog spektra**
- 3.38. Ašić-Aničić Milena: **T-DAB alotment u GE06 Planu**

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

**СПС 1 - Уторак, 20.11.2012. године у 14:30 - сала 3/1**  
*CS 1 - Tuesday, 20.11.2012, 14:30 – Hall 3/1*

**Председавајући: НЕНАД МИЛОШЕВИЋ**

*Chairperson: NENAD MILOŠEVIĆ*

- 4.1. Dimitrijević Bojan, Stošović Slavimir, Milošević Nenad, Nikolić Zorica: **MDPSK Signal Reception Using a Modified Multiple Symbol Differential Detection in the Presence of Carrier Frequency Offset**
- 4.2. Nikolić Bojana, Dimitrijević Bojan, Milošević Nenad, Đorđević T. Goran: **Performance of MPSK Signal Predetection EGC Diversity Receiver**
- 4.3. Turajlić Emir, Božanović Olja: **A Novel Adaptive IIR Filter Algotihm**
- 4.4. Fedra Zbynek, Blumenstein Jiri: **Code Based Channel Estimation in VSF-OFCDM Systems**
- 4.5. Craciunescu Razvan, Halunga Simona, Fratu Octavian: **Guard Interval Effects on OFDM/BPSK Transmissions over Fading Channels**
- 4.6. M. J. Dehghani, N. Jafarian, K. Kazemi: **Peak-to-Average Power Ratio in 3-D OFDM System**
- 4.7. M. S. Islim, B. Rihawi, A. A. Shaar: **Short Range V2I Communication System Using Wireless Optical CDMA**
- 4.8. A. D. Alwazzan, A. M. Abdulsattar, K. M. Quboa: **Effect of Comb Type Channel Estimation on Performance of MC-CDMA**
- 4.9. Arturs Aboltins: **Carrier Frequency Offset Estimator Based on Unique Word Cross-correlation**

**СПС 2 - Уторак, 20.11.2012. године у 17:00 - сала 3/1**  
*CS 2 - Tuesday, 20.11.2012, 17:00 – Hall 3/1*

**Председавајући: ГОРАН ЂОРЂЕВИЋ**

*Chairperson: GORAN ĐORĐEVIĆ*

- 4.10. Cvetković Aleksandra, Kansannen Kimmo, Đorđević T. Goran: **Outage Analysis for Uncoordinated Decode-and Forward Networks over Nakagami-*m* channels**
- 4.11. Suciú George, Ularu Elena, Craciunescu Razvan: **Public versus Private Cloud Adoption – a Case Study based on Open Source Cloud Platforms**
- 4.12. Vulpe Alexandru, Fratu Octavian, Crăciunescu Răzvan: **Performance evaluation of heterogeneous interworking using IEEE 802.21**
- 4.13. J. Deza, A. Ouslimani, A. Konczykowska, A. Kasbari, J. Godin: **A 4 GSa/s, 16-GHz Input bandwidth Master-Slave Track-and-Hold Amplifier in InP DHBT technology**
- 4.14. Ilić Marko, Petrović Vladimir, Jovanović Goran: **Simulation of synchronous Network-on-chip router for System-on-chip communication**
- 4.15. Sorudeykin Kirill: **Irrespective Priority-Based Regular Properties of High-Intensity Virtual Environments**
- 4.16. Šmidling Bojan, Zogović Nikola: **A Controller for Transmission Parameters Adaptation to Wireless Channel with Energy-Efficiency Goal**
- 4.17. Kowalik First, Januszewski Second, Gontraz Third: **Remote control of power system protection devices-requirements and tests of tomorrows solution**

- 4.18. Safshar Nasrin, Haroutunian Evgueni: **Random Coding Bound for  $E$ -capacity Region of the Broadcast Channel With Two Confidential Messages**

**СПС 3 - Среда, 21.11.2012. године у 8:30 - сала 3/1**  
*CS 3 - Wednesday, 21.11.2012, 8:30 – Hall 3/1*

**Председавајућа: ЉИЉАНА ТРАЈКОВИЋ**

*Chairperson: LJILJANA TRAJKOVIĆ*

- 4.19. Radulović Milan, Čelebić Vladimir, Kabović Milenko, Kabović Anka: **Realizacija telezaštitnog interfejsa za rad sa VF uređajem po vodovima visokog napona korišćenjem FPGA tehnologije**
- 4.20. Brett Marko, Narančić Dragan, Basarić Zoran, Jovanović Marija: **Jedno rešenje prevođenja DVB programske podrške na novu platformu: povezivanje NIM podsistema**
- 4.21. Haroutunian Evgueni, Margaryan Tigran: **The Shannon Cipher System With a Guessing Wiretapper Eavesdropping through a Noisy Channel**
- 4.22. Milinković Luka, Malešević Branko: **Jedna analiza generatora pseudoslučajnih brojeva zasnovana na skupu kvadratnih iracionaliteta**
- 4.23. Vuković Vladimir, Petrović Grozdan, Trajković Ljiljana: **Propusnost GBN ARQ šeme sa xor kombinovanjem paketa**
- 4.24. Borić Željko, Marković Branko: **Simulator govornog termometra baziran na DS 1820 senzoru i PIC 1 8F45K22 mikrokontroleru**
- 4.25. Yavar Safaei Mehrabani, Mohammad Eshghi, Yaser Safaei Mehrabani: **Design of an ASIP Processor for MD5 Hash Algorithm**
- 4.26. Damjanović Đorđe, Gojković Milan, Peulić Aleksandar, Đoković Marina, Aleksić Veljko: **Bežični mikrokontrolerski sistem Tmote sky za detekciju pomeraja senzora**
- 4.27. Dogan Viktor, Brkić Miodrag, Milosavljević Vladimir, Obradović Đorđe, Živanov Miloš: **Univerzalni sistem za slanje podataka u geofizičkom karotažu**

**СПС 4 - Среда, 21.11.2012. године у 11:00 - сала 3/1**  
*CS 3 - Wednesday, 21.11.2012, 11:00 – Hall 3/1*

**Председавајући: ПРЕДРАГ ИВАНИШ**

*Chairperson: PREDRAG IVANIŠ*

- 4.28. Omran Al Rasheed, Radović Dajana, Ivaniš Predrag: **Performances of Progressive Edge-Growth LDPC codes in Nakagami fading channel**
- 4.29. M. J. Dehghani, Z. Karbalaee, M. Mahzon: **Design of a Wide Band Antenna Array with Cosecant Square Pattern using Generic Algorithm**
- 4.30. Anton Constantin, Ionescu Laurențiu, Tutănescu Ion, Mazăre Alin, Șerban Gheorghe, Oprea Adriana: **An Error Detection and Correction System based on Associative Memories**
- 4.31. Vijay Arnesh, Green Roger: **Radio on Visible Light – A New Approach for Indoor Mobile Telecommunications**
- 4.32. N. Asfhar, E. Haroutunian, M. Haroutunian: **On Inner Bond for  $E$ -capacity Region of the Broadcast Channel With Confidential Messages**
- 4.33. Ciornei Sebastian, Bogdan Ion, Scripcariu Luminita: **HD Voice Modern for End to End Secure Call**
- 4.34. Orlić Vladimir, Perić Miroslav, Banjac Zoran, Milićević Saša: **Some aspects of practical implementation of AES 256 crypto algorithm**



- 4.35. Ramiro Sámano-Robles: **Joint User Scheduling, Link Adaptation and Beam-Forming for Distributed Antenna Systems**
- 4.36. R. Sayeb, N. Hamdi: **On The Performance of MIMO Af System with Incremental Relaying**

**СПС 5 - Четвртак, 22.11.2012. године у 11:00 - сала 3/1**  
*CS 3 - Thursday, 22.11.2012, 11:00 – Hall 3/1*

**Председавајући: ВЕЉКО МАЉБАША**

*Chairperson: VELJKO MALBAŠA*

- 4.37. Mezei Ivan, Malbaša Veljko, Stojmenović Ivan: **Task Assignment in Wireless Sensor and Robot Networks (Rad po pozivu / Invited Paper)**
- 4.38. Popescu Dan, Dobrescu Radu, Maciuca Andrei, Marcu Roxana: **Smart sensor network for continuous monitoring at home of elderly population with chronic diseases**
- 4.39. Tudorache Ion, Rasool Imtiaz, Kemp Andrew: **Indoor RSSI-Based Ranging Consistency and Error Factors in Wireless Sensor Networks**
- 4.40. Gasparović Bojan, Mezei Ivan: **Improving iMesh Based Service Discovery by Agents in Multi-hop Wireless Sensor and Actuator Networks**
- 4.41. Mircea Ionel Strutu, Dan Popescu: **An Analytic Approach towards Restoring Communicational Path in a WSN**
- 4.42. Horvat Goran, Balkić Zoran, Jokić Stela: **WSN Based Remote Data Logging System for Use in Food Process Engineering – Convection Dryer Example**
- 4.43. M. Mehdawi, N. Riley, M. Ammar, M. Zolfaghari: **Comparing Historical and Current Spectrum Occupancy Measurements in the Context of Cognitive Radio**
- 4.44. C. Males, V. Popa, A. Lavrić, I. Finiš: **Performance Evaluation of Power Line Communications over Power Transformers**
- 4.45. A. Patlins, N. Kunicina, A. Zabasta, Y. Chaiko: **Functional blocks development for intelligent control system of public transport**

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

**ОС 1 - Уторак, 20.11.2012. године у 14:30 - сала 6/1**  
*SP 1 - Tuesday, 20.11.2012, 14:30 – Hall 6/1*

### **Obrada slike 1**

**Председавајући: АНА ГАВРОВСКА и JAN BARTOVSKY**

*Chairpersons: ANA GAVROVSKA and JAN BARTOVSKY*

- 5.1. Ahmed Maher Abed Shaheen, Kaydar Quboa: **Breast Detection Using UWB-Confocal Imaging Techniques With Halved Averaging Algorithm**
- 5.2. Spasić Slađana, Savić Aleksandar, Nikolić Ljiljana, Budimir Snežana, Janošević Dušica, Mitrović Aleksandra: **Applications of Higuchi's fractal dimension in the Analysis of Biological Signals**
- 5.3. Bartovsky Jan, Holik Michael, Kraus Vaclav, Krutina Aleš, Šalom Radek, Georgiev Vjačeslav: **Overview of Recent Advances in Hardware Implementation of Mathematical Morphology**
- 5.4. Gagić Maja, Lukić Nemanja, Lukač Željko, Eremić Jelena, Temerinac Miodrag: **Reformatiranje slike sa proizvoljnim faktorom na ugrađenim multimedijalnim sistemima**

- 5.5. Prokin Dragana, Prokin Milan: **Median and Morphological Filters Based on LCBP Rank Filter**
- 5.6. Kartalov Tomislav, Ivanovski Zoran, Panovski Ljupcho: **A Low Cost Algorithm for Multi Focus Image Fusion**
- 5.7. Savić Slavica, Babić Zdenka: **Fusion of Low Contrast Multifocus Images**
- 5.8. Popović Brankica, Bandur Miloš, Raičević Anđelija, Randelović Dragan: **Different methods for fingerprint image orientation estimation**
- 5.9. Dimitrievski Martin, Ivanovski Zoran, Panovski Ljupcho: **Blind Quality Estimation of Compressed Sensing MRI**

**OC 2 - Уторак, 20.11.2012. године у 17:00 - сала 6/1**  
*SP 2 -Tuesday, 20.11.2012, 17:00 – Hall 6/1*

**Obrada slike 2**

**Председавајући: СТЕВИЦА ГРАОВАЦ и ИВАНА СОПОВСКА**

*Chairpersons: STEVICA GRAOVAC and IVANA SOPOVSKA*

- 5.10. Makarov A., Lukić V., Španović M.: **Deriving Camera and Lens Settings for Fixed Traffic Enforcement and ALPR Cameras (Rad po pozivu / Invited Paper)**
- 5.11. Sopovska Ivana, Ivanovski Zoran: **Image content classification using local context and double thresholding**
- 5.12. Bogdanoski Mitko, Risteski Aleksandar: **Steganalysis – a Way Forward Against Cyber Terrorism**
- 5.13. Lugonja Predrag, Panić Marko, Minić Vladan, Čulibrk Dubravko, Crnojević Vladimir: **Klasifikacija poljoprivrednih kultura na multispektralnim satelitskim slikama**
- 5.14. Wiesner Anatol: **Vital Signs Detection Using Illuminators of Opportunity**
- 5.15. Stojanović Branka, Nešković Aleksandar: **Uticaj kompresije otisaka prstiju pomoću PCA metode na performanse prepoznavanja**
- 5.16. Lukić Vojislav, Makarov Aleksej, Španović Milana: **An Application of Image Point Operators for OCR Improvement in ALPR Algorithm**
- 5.17. Vrtanoski Jordan, Draganov Stojanovski Toni: **Pattern Recognition with OpenCL Heterogeneous Platform**

**OC 3 - Среда, 21.11.2012. године у 11:00 - сала 6/1**  
*SP 3 - Wednesday, 21.11.2012, 11:00 – Hall 6 /1*

**Obrada audio signala**

**Председавајући: ВЛАДО ДЕЛИЋ и БРАНИСЛАВ ГЕРАЗОВ**

*Chairpersons: VLADO DELIĆ and BRANISLAV GERAZOV*

- 5.18. Popović Branislav, Janev Marko, Delić Vlado: **Gaussian Selection Algorithm in Continuous Speech Recognition (Rad po pozivu / Invited Paper)**
- 5.19. Ćirović Zoran, Milosavljević Milan, Banjac Zoran: **Exploiting Glottal Information for Robust Speaker Verification (Rad po pozivu / Invited Paper)**
- 5.20. Ostrogonac Stevan, Sečujski Milan, Mišković Dragiša: **Impact of training corpus size on the quality of different types of language models for Serbian**
- 5.21. Gerazov Branislav, Pop-Dimitrijoska Vesna, Ivanovski Zoran, Apostolovska Gordana: **Use of Gaussian Mixture Models in macedonian Forensic Speaker Identification**
- 5.22. Grozdić Đorđe, Marković Branko, Galić Jovan, Jovičić Slobodan: **Primena neuralnih mreža u prepoznavanju govora u šapatu**

- 5.23. Pakoci Edvin, Mak Robert, Ostrogonac Stevan: **Subjective Assessment of Text to Speech Synthesis Systems for the Serbian Language**
- 5.24. Lukić Dušica, Ćirić Dejan, Lukić Ljubomir: **Merenje buke transformatora metodom zvučnog pritiska**
- 5.25. Turajlić Emir, Božanović Olja: **Neural Network Based Speaker Verification for Security Systems**
- 5.26. Jokić Ivan, Jokić Stevan, Delić Vlado: **Jedan način realizacije automatskog prepoznavanja govornika**
- 5.27. S. Adolfazl Hosseini, Hassan Ghassemian, Roya Alizadeh: **Using Vector of Fractal Dimensions for Feature Reduction and Phoneme Recognition and Classification**

**OC 4 - Среда, 21.11.2012. године у 8:30 - сала 6/1**  
*SP 4 - Wednesday, 21.11.2012, 8:30 – Hall 6/1*

**Analogni i digitalni filtri**

**Председавајући: МИРОСЛАВ ЛУТОВАЦ и ВЛАСТИМИР ПАВЛОВИЋ**

*Chairpersons: MIROSLAV LUTOVAC and VLASTIMIR PAVLOVIĆ*

- 5.28. Tomić Aleksandar: **Problematika rešenja filtara propusnika opsega za novi hidroakustički sistem**
- 5.29. Okiljević Predrag, Pokrajac Ivan, Jelušić Dragana: **Optimizacija koeficijenata CIC i FIR filtara u DDC lancu GC4016**
- 5.30. Slavković Marijeta, Gavrovska Ana, Paskaš Milorad, Dedić-Nešić Snežana, Reljin Branimir: **Computer Analysis of a Crystal Filter with Four Crystal Units**
- 5.31. Babić Đorđe: **Design of polynomial-based filters using continuous-time Kaiser window**
- 5.32. Ćertić Jelena, Lutovac Miroslav, Milić Ljiljana: **Digital Filter Banks with Approximately Liner Phase**
- 5.33. Čeperković Vladimir, Prokin Milan: **Non-Stationary Two-Dimensional Subband Transformer Filters**
- 5.34. Dujković Dragi, Dedić Nešić Snežana, Grubišić Lenkica, Gavrovska Ana, Reljin Irini: **A new crystal filter F 106**
- 5.35. Stamenković Negovan, Stojanović Vidosav: **Prelazni Butterworth-Thiran digitalni filtri sa beskonačnim impulsnim odzivom**
- 5.36. Stojilović Mirjana, Popović Miodrag: **Performanse Ansari-Liu sekcija drugog reda u sistemima sa konačnom dužinom reči**
- 5.37. Pavlović Vlastimir, Lutovac Miroslav: **Analiza efekata konačne tačnosti idealnih reaktansi LC lestvičastog filtra na tačnost polova filtarske funkcije**

**OC 5 - Среда, 21.11.2012. године у 14:30 - сала 6/1**  
*SP 5 – Wednesday, 21.11.2012, 14:30 – Hall 6/1*

**Obrada signala u telekomunikacijama 1**

**Председавајући: ПРЕДРАГ ИВАНИШ и СРЂАН СТАНКОВИЋ**

*Chairpersons: PREDRAG IVANIŠ and SRĐAN STANKOVIĆ*

- 5.38. Lončar-Turukalo Tatjana, Bajić Dragana: **The Evaluation of sBRR Sequence Random Occurrences: a Model for Surrogate Data (Rad po pozivu / Invited Paper)**
- 5.39. S. Amir Tabatabaei, Živić Nataša: **Security Analysis of Encryption via Compressed Sensing**
- 5.40. Đurić N., Šenk V.: **MTR Decoding Employing MAP algorithm in Boolean Logic Circuits**

- 5.41. Velimirović Lazar, Perić Zoran, Stanković Miomir, Simić Nikola, Vučić Nikola: **Projektovanje kvantizera Laplasovog izvora zasnovano na aproksimaciji funkcije gustine verovatnoće**
- 5.42. Draganić Anđela, Orović Irena, Stanković Srđan, Moeness G. Amin: **Rekonstrukcija FHSS signala zasnovana na principu kompresivnog odabiranja**
- 5.43. Mohammad Hossein Refan, Adel Dameshghi: **Comparing Error Predictions of GPS Position Components Using, ARMANN, RNN, and ENN in Order to use in DGPS**
- 5.44. Mrazovac Bojan, Nenadić Dušan, Bjelica Z. Milan, Kukulj Dragan, Todorović M. Branislav: **Passive Wireless Surveillance Method Based on Shannon Entropy of the Signal Strength Space**

**OC 6 - Среда, 21.11.2012. године у 17:00 - сала 6/1**  
*SP 6 - Wednesday, 21.11.2012, 17:00 – Hall 6/1*

**Obrada signala u telekomunikacijama 2**

**Председавајући: МИЉКО ЕРИЋ и МИЛАН БЈЕЛИЦА**

*Chairpersons: MILJKO ERIC and MILAN BJELICA*

- 5.45. Ashkan Kalantari, Ehsan Soleimani-Nasab, Mehrdad Ardebilipour: **Performance Analysis of Multi-Antenna Relay Systems with Imperfect Channel Estimation**
- 5.46. Shaghayegh Kafshgari, Reza Mohseni: **The Effect of Target Fluctuation on the OFDM Radar Detection Performance**
- 5.47. Shaghayegh Kafshgari, Reza Mohseni: **OFDM Radar Detection in Log Normal Clutter**
- 5.48. Kaydar M. Quboa, B.M. Ahmad, M. J. Mohammad: **Increase Data Rate In MB-OFDM UWB Using Hybrid Digital Modulation**
- 5.49. Javad Taghipour, Ali Asghar Parandoosh, Vahid Tabataba Vakili: **An Agent Based Particle Swarm Optimization for PAPR Reduction of OFDM Systems**
- 5.50. Ivković Dejan, Zrnić Bojan, Andrić Milenko: **Komparativna analiza CFAR detektora u prijemniku softverski definisanog radara**
- 5.51. Mostafa Alimosaymer, Reza Mohseni: **Least Square Synthesis of WPM-OFDM Radar Signal**
- 5.52. Daković Miloš, Brajović Miloš, Thayanathan Thayaparan, Stanković Ljubiša: **An algorithm for micro-Doppler period estimation**
- 5.53. Milijić Marija, Milovanović Bratislav, Stanković Zoran: **Neural Network Based Software for Calculation BER Parameter of DVB-T Receiver**
- 5.54. Spajić Vlado, Kozić Nadica, Pokrajac Ivan, Okiljević Predrag: **Radio-monitoring telekomunikacionih sistema sa TDMA tehnikom višestrukog pristupa**

**OC 7 - Четвртак, 22.11.2012. године у 8:30 - сала 6/1**  
*SP 5 – Thursday, 22.11.2012, 8:30 – Hall 6/1*

**Obrada signala u telekomunikacijama 3**

**Председавајући: ИРЕНА ОРОВИЋ и ГОРАН КВАШЧЕВ**

*Chairpersons: IRENA OROVIC and GORAN KVAŠČEV*

- 5.55. Savić Aleksandar, Jovanović Katarina, Janković Radmila, Radotić Ksenija, Spasić Slađana: **Determination of gene point mutations by application of higher order central moments – Preliminary research**
- 5.56. Jakovetić Dušan, João Xavier, José M. F. Moura: **Convergence Rate Analysis of Distributed Gradient Methods for Smooth Optimization**

- 5.57. Jokanović Branka, Orović Irena, Stanković Srđan, Moeness Amin: **A Robust Form of the Ambiguity function**
- 5.58. Ristović Milica, Lubura Slobodan, Jokić Dejan: **Implementation of CORDIC Algorithm on FPGA Altera Cyclone**
- 5.59. Dujković Dragi, Grubišić Lenkica, Dedić Nešić Snežana, Gavrovska Ana, Reljin Branimir: **Novi tehnološki postupak u proizvodnji kristalnih jedinki SC reya, namenjenih za visokokvalitetne kristalne oscilatore**
- 5.60. Bajović Dragana, João Xavier, Bruno Sinopoli: **Products of Stochastic matrices: Exact Rate for Convergence in Probability for Directed Networks**
- 5.61. Zečević Ž., Krstajić B.: **Modifikovani Self Orthogonalizing FxLMS algorithm**
- 5.62. Ramona Hodrea, Cosmin Darab, Ioan Nascu: **Modeling of Drug Delivery in General Anesthesia**

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

**ОТ 1 - Четвртак, 22.11.2012. године у 8:30 – сала 3/1**  
*OC 1 - Thursday, 22.11.2012, 8:30 – Hall 3/1*

**Председавајући: ДЕЈАН ГВОЗДИЋ**

*Chairpersons: DEJAN GVOZDIĆ*

- 6.1. Stojanović N., N. G. Gonzalez, C. Xie, Y. Zhao, B. Mao, J. Qi, L.M. Binh: **Timing Recovery in Nyquist Coherent Optical Systems**
- 6.2. Stojanović N., C. Xie, Y. Zhao, L.M. Binh, N.G. Gonzalez, B. Mao, J. Qi: **Accelerating Chromatic Dispersion Estimation in Coherent Optical Receivers**
- 6.3. S. K. Idris, T. B. Osadola, S. F. Shaukat, I. Glesk: **All-optical Clock Recovery for OCDMA Systems with Optical Time Gating**
- 6.4. Tolulope B. Osadola, Siti K. Idris, Ivan Glesk: **Novel Method for Multi Access Interference Suppression in Multiwavelength FBG-Encoded OCDMA**
- 6.5. Mihai I. Bănică, Victor Croitoru: **Electronic Switch Scalability in a Hybrid OXC Architecture**
- 6.6. Ušćumlić Bogdan, Gredić Veselin, Annie Gravey, Philippe Gravey, Michel Morvan, Matavulj Petar: **Stable dimensioning issue for optical packet ring with uniform and symmetric traffic**
- 6.7. Amir Mehr, Farzin Emami, Farzad Mohajeri: **Tunable Chiral Photonic Crystal Filters**
- 6.8. Amir Mehr, Farzin Emami, Farzad Mohajeri: **Filtering Operation of New Air-Bridge Photonic Band Gap Structures; Holes Rotation, Tapering and Shortening Effects**
- 6.9. Dašić Miljana, Popović Miloš: **Minimum Drop-Loss Design of Microphotonic Microring-Resonator Channel Add-Drop Filters**
- 6.10. Kitanović Saša, Sotirović Velimir, Egić Branislav, Veličković Zoran, Blagojević Dejan, Simonović Predrag: **Merenje slabljenja alternativane tehnike zaštite spojenog optičkog vlakna na spajaču Fujicura FSM 50S**
- 6.11. Banjac Zoran, Orlić Vladimir, Perić Miroslav, Milićević Saša.: **Securing data on fiber optic transmission lines**
- 6.12. Stupar Dragan, Bajić Jovan, Slankamenac Miloš, Manojlović Lazo, Joža Ana, Jelić Miodrag, Živanov Miloš: **Experimental and Simulation Analysis of Fiber-Optic Refractive Index Sensor Based on Numerical Aperture**

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

**ПЕЛ 1 - Среда, 21.11.2012. године у 11:00 - сала 9а/0**  
*AEL 1 - Wednesday, 21.11.2012, 11:00 – Hall 9a/0*

**Председавајући: RADOSVET ARNAUDOV и МИЛОШ ЖИВАНОВ**

*Chairpersons: RADOSVET ARNAUDOV and MILOŠ ŽIVANOV*

- 7.1. Hannes Toepfer, Komla Amenyo Agla, Olaf Wetzstein, Thomas Ortlepp: **Modeling of noise-induced jitter in low-power mixed-signal circuits using a SystemC high-level description (Rad po pozivu / Invited Paper)**
- 7.2. Arnaudov Radosvet, Borisov Radoslav: **Simple Extraction of Effective Dielectric Permittivity and Magnetic Permeability in IC Transmission Lines on Multilayer Substrates**
- 7.3. Jovalekić Nikola, Mićović Predrag, Popović-Božović Jelena: **An Implementation of Optical Transponder and Media Converter Unit for Speeds up to 2.5 Gbps**
- 7.4. Ganga Bahubalindrani, Cândido Duarte, Vítor Grade Tavares, Pedro Barquinha, Rodrigo Martins, Elvira Fortunato, Pedro Guedes de Oliveira: **Multipliers with Transparent a-GIZO TFTs using a Neural Model**
- 7.5. Holik Michael, Kraus Vaclav, Bartovsky Jan, Krutina Ales, Georgiev Vjaceslav: **SPECTRIG – device for triggering and spectroscopy with the pixelated particle detector**
- 7.6. Georgiev Naydenov Borislav, Hristov Yordanov Antim: **Analysis of the properties of this polycrystalline used in solar photocells**
- 7.7. Cholakova Ivelina, Takov Tihomir, Tsankov Radostin, Simonne Nicolas: **Temperature Influence on Hall Effect Sensors Characteristics**
- 7.8. K. H. Hamid, S. A. AL Kazzaz: **Efficiency Enhancement for Base Station Application Using Doherty Amplifier**

**ПЕЛ 2 - Среда, 21.11.2012. године у 14:30 - сала 3/1**  
*AEL 2 - Wednesday, 21.11.2012, 14:30 – Hall 3/1*

**Председавајући: RUDOLF ZETIK и ВЕРА МАРКОВИЋ**

*Chairpersons: RUDOLF ZETIK and VERA MARKOVIĆ*

- 7.9. Zetik Rudolf, R. S. Thomä: **Ultra-Wideband Channel Sounder – Design, construction and Selected Applications (Rad po pozivu / Invited Paper)**
- 7.10. Pandiev Ivailo: **Analysis and Design of CFOA-Based High-Speed Amplifier Circuits**
- 7.11. Piekarz Ilona, Sorocki Jakub, Wineza Krzysztof, Gruszczynski Slawomir, Muller Jens, Welker Tilo: **Meandered Coupled-Line Single-Section Directional Coupler Designed in Multilayer LTCC Technology**
- 7.12. Ivković Nenad, Marinković Zlatica, Pronić-Rančić Olivera, Marković Vera: **ANN based Extraction of Equivalent Noise Temperatures in Microwave FET Noise Models**
- 7.13. Kolev Georgi, Aleksandrova Mariya, Videkov Valentin, Denishev Krassimir, Truhchev Petar: **Piezoelectric MEMS Stress Sensor with Thin Lead Zirconate Titanate (PZT) Layer**
- 7.14. Petrova Aleksandrova Mariya: **Influence of the Operating Temperature on the Organic Flexible Display's Performance for Mobile Applications**
- 7.15. Valda Lukas, Kribsky Petr, Salom Radek, Kosturik Kamil: **Wireless Interconnection of Buses for Measurement and Control**

- 7.16. Štrbac Matija, Kevac Ljubinko, Popović Ivan, Jovičić Nenad: **Wireless camera network system: test of concept**

**ПЕЛ 3 - Среда, 21.11.2012 године у 17:00 - сала 3/1**  
*AEL 2 - Wednesday, 21.11.2012, 17:00 – Hall 3/1*

**Председавајући: САША НИКОЛИЋ и ЛАЗАР САРАНОВАЦ**

*Chairpersons: SAŠA NIKOLIĆ and LAZAR SARANOVAC*

- 7.17. Milojković Marko, Antić Dragan, Jovanović Zoran, Nikolić Saša, Perić Staniša: **General Concept of Orthogonality Applied in Technical Systems (Rad po pozivu /Invited Paper)**
- 7.18. Roland Szabo, Aurel Gontean, Ioan Lie: **Embedded Temperature Monitoring System with a Microcontroller Used in the Automotive Industry**
- 7.19. Janković Olivera, Janković Ratko: **Implementacija hardverske I softverske podrške za monitoring podataka sa senzora temperature**
- 7.20. Mihajlović Živorad, Milosavljević Vladimir, Rajs Vladimir, Živanov Miloš: **Application of GPRS Modules in Data Acquisition and Control of Devices for Air Quality Monitoring**
- 7.21. Bjelica Milan, Mrazovac Bojan, Vojnović Vladimir, Teslić Nikola, Jelovac Vladimir: **Mehanizmi bezbednosti korisnika u programskoj podršci aktuatora za pametne kuće**
- 7.22. Španović Milana, Makarov Aleksej, Lukić Vojislav: **Sistem za biometrijsku kontrolu pristupa logičkim resursima**
- 7.23. Jevtić Radoje, Blagojević Milan: **Intruder disturbance determination of coaxial cables by impulse reflectometer TX6000**
- 7.24. Jevtić Radoje, Blagojević Milan: **Fire disturbance detection of coaxial cable by impulse reflectometer TX6000**

**ПЕЛ 4 - Четвртак, 22.11.2012. године у 8:30 - сала 5/1**  
*AEL 2 - Thursday, 22.11.2012, 8:30 – Hall 5/1*

**Председавајући: ДАМИР ШОШТАРИЋ и ЈЕЛЕНА ПОПОВИЋ-БОЖОВИЋ**

*Chairpersons: DAMIR ŠOŠTARIĆ and JELENA POPOVIĆ-BOŽOVIĆ*

- 7.25. Nemanja Stefan Perović, Popović-Božović Jelena: **FPGA realizacija RSA kript algoritma korišćenjem algoritma šiftovanja i dodavanja**
- 7.26. Jokić Dejan, Lubura Slobodan, Lale Srđan, Lukač Duško: **Encoder signal processing on FPGA platform realized in Matlab/DSP Builder**
- 7.27. Broulim Jan, Georgiev Vjačeslav: **LDPC error correction code utilization**
- 7.28. Teodorović Predrag, Vukobratović Bogdan, Struharik Rastislav, Dautović Staniša: **Generator sekvenci za izračunavanje proizvoljne  $n$ -ulazne Bulove funkcije korišćenjem dva memristora**
- 7.29. Dabić Radoš, Jovičić Nenad: **Bit-Rate Selection in Wireless Functional Electrical Stimulation System**
- 7.30. Šoštarić Damir, Martinović Goran, Žagar Drago: **GPS Tracking of Self-balancing Vehicle for Extreme Environment based on Android OS**
- 7.31. Marinković Vladimir, Kastelan Ivan, Vranić Nikola, Marčeta Zoran, Peković Vukota: **Protocol Independent Remote Controller Emulator for Automated Testing of Multiple DTV/STB**
- 7.32. Bjelica Ognjen, Mijić Danijel: **Hardverski dizajn čitača u sistemu za nastavnu evidenciju baziranom na FRID tehnologiji**
- 7.33. Pavlović Marko, Radulović Srđan, Stojković Željko, Nenadić Nikola: **Projektovanje DDR3 SDRAM memorijskog interfejsa na COM modulu**

**PEJL 5 - Четвртак, 22.11.2012. године у 11:00 - сала 5/1**  
*AEL 2 - Thursday, 22.11.2012, 11:00 – Hall 5/1*

**Председавајући: ПРЕДРАГ ПЕЈОВИЋ**

*Chairperson: PREDRAG PEJOVIĆ*

- 7.34. Stojilović Mirjana, Pejović Predrag: **Performance Analysis of Space-Vector Modulated Two- and Three-Level Inverters**
- 7.35. Mohamed Miloudi, Abdelber Bendaoud, Houcine Miloudi, Said Nemnich, Helima Slimani: **Analysis and Reduction of Common-Mode and Differential-Mode EMI Noise in a Flyback Switch-Mode Power Supply (SMPS)**
- 7.36. Cristian Neacsu, Chesaru Valentin, Dan Claudius, Bodea Mircea: **An improved Wien based autonomous chaos generator**
- 7.37. Živanović Zoran, Smiljaković Vladimir: **“Mini-maxi” DC/DC konvertor**
- 7.38. Živanović Zoran, Smiljaković Vladimir: **Planarni transformator 1kW – od ideje do relaizacije**
- 7.39. Popović Ivan, Janković Strahinja: **Kontrola učestnosti kod namenskih sistema niske potrošnje**
- 7.40. Đurić Radivoje, Božović Mihajlo: **RF-DC konvertor male snage sa konstantnim izlaznim naponom**
- 7.41. Perišić Đorđe, Žorić Aleksandar, Obradović Slobodan, Perišić Đorđe: **Zvučno dekodovanje energetskog stanja u kontroli vršnog opterećenja**

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

**ПЕМ 1 - Среда, 21.11.2012. године у 11:00 - сала 3/0**  
*AEM 1 - Wednesday, 21.11.2012, 11:00 – Hall 3/0*

**Председавајући: МИЛАН ИЛИЋ и OLGA SUVOROVA**

*Chairpersons: MILAN ILIĆ i OLGA SUVOROVA*

- 8.1. Kovačević Aleksandar, Osmokrović Predrag: **Evaluation of measurement uncertainty in electromagnetic compatability testing (Rad po pozivu / Invited Paper)**
- 8.2. Munić Nenad, Stevanović Marija, Kovačević Aleksandar, Đorđević Antonije: **Poboljšano modelovanje Faradejevog kaveza za ispitivanje elektromagnetske kompatibilnosti**
- 8.3. Stojilović Mirjana, Ilić Milan: **802.11b Small-Signal amplifier Based on the BFG25A/X**
- 8.4. Radosavljević Ana, Radovanović Jelena, Milanović Vitomir: **Optimizacija planarnih nanostruktura na bazi kubnog GaN/AlGaN za primene u IC oblasti spektra pomoću Genetskog Algoritma**
- 8.5. Sattar Samadi Gorji, Bijan Zakeri: **Evaluation of Different Structures for Loop Filter on Synthesizer Specifications**
- 8.6. Shirazi M., Sarrafshirazi R., Moradi Gh., Shirazi S.: **Size Reduction and Harmonic Suppression of a Rat-race Coupler with Different Types of Defected Microstrip Structure (DMS)**
- 8.7. Mohamed Mansour, Mostafa Elmala, Abdel-Aziz Shalaby, El-Sayed El-Rabaie: **Realization of Metamaterial Zeroth-Order Resonators Based on MIM Capacitor**
- 8.8. Miljanović Dejan, Potrebić Milka, Tošić Dejan: **Faktor dobrote kvazi-koncentrisanog višeslojnog rezonatora sa induktivnim uvodnikom**
- 8.9. Yury Tuchkin, Suvorova Olga, Dikmen Fatih: **Modeling of Waveguides of Various Cross Section by Analytical Regularization Method**



- 8.10. Janković U., Mohottige N., Golubičić Z., Petrović V., Budimir Đ.: **Electromagnetic Modelling of Dielectric-filled Waveguide Antenna Filters**

**ПЕМ 2 - Среда, 21.11.2012. године у 14:30 - сала 3/0**  
*AEM - Wednesday, 21.11.2012, 14:30 – Hall 3/0*

**Председавајући: BIJAN ZAKERI и NASSER OJAROUDI**

*Chairpersons: BIJAN ZAKERI and NASSER OJAROUDI*

- 8.11. Mehmet Abbak, Mehmet Can Büyükyavuz, Şimşek Serkan: **Small Printed UWB Monopole Antenna**
- 8.12. Hossein Mehrpour Bernetz, Bijan Zakeri: **A New Partially Grounded Slotted Ultra-Wideband Antenna with WLAN Band-rejection**
- 8.13. Sh. Amiri, N. Ojaroudi, M. Ojaroudi: **A Novel and Compact Monopole Antenna with Band-Stop Performance for UWB Applications**
- 8.14. Reza Hosseinzadeh, Bijan Zakeri: **SAR of the Human's Head Due to Electromagnetic Radiation of a Mobile Antenna**
- 8.15. N. Ojaroudi, M. Ojaroudi, Sh. Amiri: **Omni-Directional/Multi-Resonance Monopole Antenna for Microwave Imaging Systems**
- 8.16. Reza Gholami, Bijan Zakeri: **Design and Analysis of a New Compact Band-Rejected UWB Antenna**
- 8.17. N. Ojaroudi, M. Ojaroudi, Sh. Amiri: **Band-Notched Small Microstrip Slot Antenna by Using Parasitic Structures inside the Slots for UWB Applications**
- 8.18. Amin Gorji, Bijan Zakeri: **An Investigation in Obtaining Convergence of RCS by Using CAD Solvers**
- 8.19. M. Ojaroudi, N. Ojaroudi, Sh. Amiri: **Reconfigurable Antenna with Controllable Band-Notched Performance for Multimode Wireless Communications**
- 8.20. Mojtaba Rajabalian, Bijan Zakeri: **Non-Focal Microwave Lens Design with Optimization of Phase Errors and Amplitude Performance**

**ПЕМ 3 - Четвртак, 22.11.2012. године у 11:00 - сала 3/0**  
*AEM 3 - Thursday, 22.11.2012, 11:00 – Hall 3/0*

**Председавајући: VESNA JAVOR и IOANNIS VARDIAMBASIS**

*Chairpersons: VESNA JAVOR and IOANNIS VARDIAMBASIS*

- 8.21. Savić Slobodan, Ilić Anđelija, Notaroš Branislav, Ilić Milan: **Acceleration of Higher Order FEM Matrix Filling by OpenMP Parallelization of Volume Integrations**
- 8.22. Zouros Grigorios: **Exact Solution to the Scattering by Infinitely Long Composite Elliptical Dielectric Cylinders Under Oblique Illumination**
- 8.23. Kapetanakis Theodoros, Vardiambasis Ioannis, Liodakis George, Maras Andreas: **Solving the Inverse Loop Antenna Radiation Problem Using a Hybrid Neuro-Fuzzy System**
- 8.24. Kapetanakis Theodoros, Vardiambasis Ioannis, Liodakis George, Maras Andreas: **Neural Network Solution of the Circular Loop Antenna Radiation Problem**
- 8.25. Javor Vesna: **Near Electromagnetic Field Results for Engineering Models of Lightning Strokes**
- 8.26. Nešić Aleksandar, Mičić Zoran, Radnović Ivana, Nešić Dušan: **Printed Antenna Arrays with Cylindrical Parabolic Reflector**
- 8.27. Suvad Selman, Nesibe Merve Demir, Moamer Hasanovic: **Dual Band UHF RFID Antenna**

- 8.28. Finis Ilie, Popoa Valentin, Lavric Alexandru, Males Codrin, Sfichi Stefan: **Performance Evaluation of 13.56 MHz RFID Antenna Operating in Metallic Environments**
- 8.29. Abbak Mehmet, Akduman Ibrahim: **Miniaturezed Tapered Slot Antenna for Microwave Breast Imaging**
- 8.30. Muşet Aurel-Dan: **Around the Concept of Electromagnetic Fields in School Habitats**

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

**ММ 1 - Уторак, 20.11.2012. године у 14:30 - сала 9а/0**  
*MM 1 - Tuesday, 20.11.2012, 14:30 – Hall 9a/0*

### Fizička akustika, govor

**Председавајући: СЛОБОДАН ЈОВИЧИЋ**  
*Chairperson: SLOBODAN JOVIČIĆ*

- 9.1. Salom Iva, Čelebić Vladimir, Gajica Jovanka, Kartalović Nenad, Mijić Miomir, Sekulić Vladislav, Radulović Milan: **Laboratorijski model za dijagnostiku parcijalnih pražnjenja merenjem akustičkih emisija**
- 9.2. Todorović Dejan, Mihajlović Mirjana, Ristanović Ivana, Lekić Milica: **Vreme reverberacije i raspodela zvučnog polja u prostorijama na niskim frekvencijama**
- 9.3. Mašović Draško, Ögüç: **Low Frequency Measurements in Building Acoustics – Analysis of Reverberation Time Field Measurement Results**
- 9.4. Mašović Draško, Mijić Miomir, Šumarac Pavlović Dragana: **Comparison of New Measurement Methods in Building Acoustics at Low Frequencies**
- 9.5. Savić Milica: **Primenjene tehnike informacione tehnologije u logopediji**
- 9.6. Vojnović Milan, Subotić Miško: **Maskiranje test rečenica u QuickSIN testu**
- 9.7. Vojnović Milan, Punišić Silvana: **Atipičan izgovor likvida // kod dece**
- 9.8. Janković Marko, Perić Zoran, Ćirić Dejan: **Spektralna gustina snage govora u srpskom jeziku**

**ММ 2 - Среда, 21.11.2012. године у 8:30 - сала 3/0**  
*MM 2 - Wednesday, 21.11.2012, 8:30 – Hall 3/0*

### Audio, muzička akustika

**Председавајући: ДРАГАНА ШУМАРАЦ-ПАВЛОВИЋ**  
*Chairpersons: DRAGANA ŠUMARAC-PAVLOVIĆ*

- 9.9. Abderrahmane Smimite, Ken Chen, Azeddine Beghdadi: **Next-Generation Audio Networking Engineering for Professional Applications**
- 9.10. Avramović Aleksej, Banjac Goran, Galić Jovan: **Lossless Audio Compression Using Modular Arithmetic and Performance-Based Adaptation**
- 9.11. Mihajlović Mirjana, Todorović Dejan: **Uticaj impulsnog odziva prostorija za reprodukciju na objektivne parametre električne muzike**
- 9.12. Dimitrijević Stefan, Grozdić Đorđe: **Poređenje izmerenih nivoa zvuka u prostoriji korišćenjem klasične i swept-sine metode**
- 9.13. Krstić Sonja, Drinčić Dragan, Milošević Mirko: **Uporedna analiza dinamičkih karakteristika klasične gitare sa i bez rezonatora**
- 9.14. Pantelić Filip, Prezelj Jurij: **Mehanizam generisanja tona kod kontrabasa**
- 9.15. Isakov Vera, Mijić Miomir, Šumarac-Pavlović Dragana, Mašović Draško: **Analiza nivoa zvuka u orkestarskoj jami Narodnog pozorišta u Beogradu**

**MM 3 – Среда, 21.11.2012. године у 17:00 - сала 3/0**  
*MM 3 - Wednesday, 21.11.2012, 17:00 – Hall 3/0*

**Kompresija i multimedijalni servisi**

**Председавајући: ТОМИСЛАВ МАРУНА и ЗОРАН МИЛИЧЕВИЋ**

***Chairpersons: TOMISLAV MARUNA and ZORAN MILIČEVIĆ***

- 9.16. Vasić Bata: **Ekstrakcija čvorova iz 3D modela statističkim ocenjivanjem njihove geometrijske važnosti**
- 9.17. Milinković Stevan: **Software JPEG decoder for embedded systems**
- 9.18. Miličević Zoran, Bojković Zoran: **Video Coding Standardization Process: More High Efficient Video Coding Less H.264/AVC**
- 9.19. Krstić Bojan, Veličković Zoran: **Dizajn Web stranica za slepe i slabovide**
- 9.20. Lukić Dušica, Reljin Branimir: **Brojanje fluorescentnih tačaka unutar tumorskih ćelija na FISH snimcima**
- 9.21. Kapetanović Izudinka, Mujačić Samra, Kasapović Suad, Kulagić Suad: **Integration of streaming and digital signage technology for higher education**
- 9.22. Jovanović Nenad, Drča Srđan, Babić Nedeljko, Džakula Radomir, Maruna Tomislav: **Realizacija BitTorrent klijentske aplikacije za reprodukciju multimedijalnog sadržaja u vidu toka podataka**

**MM 4 - Четвртак, 22.11.2012. године у 8:30 - сала 3/0**  
*MM 4 - Thursday, 22.11.2012, 8:30 – Hall 3/0*

**Multimedijalni i televizijski sistemi**

**Председавајућа: АНДРЕЈА САМЧОВИЋ и НЕНАД КОЈИЋ**

***Chairpersons: ANDREJA SAMČOVIĆ and NENAD KOJIĆ***

- 9.23. Sugaris Aleksandar: **Technologies efficiency simulations for broadcasting networks (Rad po pozivu / Invited Paper)**
- 9.24. Ali Akbar Shams-Baboli, Mohsen Kaffashpour-Yazdi, Aref Shams-Baboli, Samad Araghi: **Face Recognition with Genetic Algorithm and Tensor based Algorithms**
- 9.25. Zajić Goran, Kojić Nenad, Zajeganović-Ivančić Marija, Reljin Branimir: **Unapređenje CBIR sistema primenom klasterizacije**
- 9.26. Milovanović Miloš, Minović Miroslav, Starčević Dušan: **New Gait Recognition Method Using Kinect Stick Figure and CBIR**
- 9.27. Tatić Dušan, Tatić Dragan: **Primena tehnologije proširene stvarnosti na izložbenoj postavci arheološkog parka Medijana**
- 9.28. Samčović Andreja: **Primena multimedijalnih tehnologija kod učenja na daljinu**

**MM 5 - Четвртак, 22.11.2012. године у 11:00 - сала 9a/0**  
*MM 5 - Thursday, 22.11.2012, 11:00 – Hall 9a/0*

**Multimedijalni sistemi**

**Председавајући: РАНИМИР РЕЉИН и АНА ГАВРОВСКА**

***Chairpersons: BRANIMIR RELJIN and ANA GAVROVSKA***

- 9.29. Vulin Rade, Pap Ištvan, Maksović Vladimir, Ikonić Nikola, Jovanović Vladimir: **Jedno rešenje realizacije programske podrške za zaštitu multimedijalnog sadržaja pomoću DTCP-IP protokola**

- 9.30. Ilić Mladen, Janković Miloš, Leporis Milko: **Jedno rešenje sistema za reprodukciju multimedijalnog sadržaja putem DLNA protokola na Android OS**
- 9.31. Milosavljević Ivan, Kličković Damir, Smiljanović Gordana, Maruna Tomislav, Kovačević Jelena: **Korisnička sprega za kontrolu reprodukovanog multimedijalnog sadržaja putem DLNA protokola na Android OS**
- 9.32. Lončarević Marko, Bogičević Branko, Hlavač Jaroslav: **Jedno rešenje sistema za deljenje multimedijalnog sadržaja putem DLNA protokola na Android OS**
- 9.33. Kovačev Mladen, Miljković Goran, Korać Bogdan, Ćurčić Branislav: **Realizacija digitlanog snimača za prijemnik za digitalnu televiziju baziran na Android platformi**
- 9.34. Milošević Milena, Marković Stnaislava, Mlikota Boris, Živanović Marko, Prtvar Bojan: **Prilagođenje funkcionalnosti zahtevane HbbTV standardom za DTV uređaje zasnovane na Android operativnom sistemu**
- 9.35. Kovačević Marko, Kovačević Branimir, Pavlović Brnaimir, Bandić Nikica: **Prikaz sadržaja interaktivnih servisa digitalne televizije na uređajima pod Android operativnim sistemom**
- 9.36. Jovanović Nenad, Milanović Miloš, Ilkić Veljko, Ivetić Borivoj: **Jedan predlog korišćenja DLNA protokola na DTV uređajima i implementacija na DTV platformi baziranoj na Androidu**

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

**САА 1 - Уторак, 20.11.2012. године у 14:30 - сала 16/0**  
*STA 1 - Tuesday, 20.11.2012, 14:30 – Hall 1b/0*

### **Prepoznavanje znanja – Knowledge Mining**

**Председавајући: ЈЕЛЕНА КОВАЧЕВИЋ и МАРИЈА ПУНТ**

***Chairpersons: JELENA KOVAČEVIĆ and MARIJA PUNT***

- 10.1. Jelenković Filip, Tošić Milorad: **Semantic Web Technologies for Pay-As-You-Go Networking Services Integration**
- 10.2. Škorput Pero, Mandžuka Sadko, Kljaić Zdenko: **Primjena ontologija u razvoju ITS aplikacija**
- 10.3. Omran Ali Bentaher, Milosavljević Milan: **An Intrusion Detection System for DoS Attacks Based on Neural Networks**
- 10.4. Mišković Vladislav: **Learning Kernels for Time Sequences Classification**
- 10.5. Kirandziska Vesna, Ackovska Nevena: **Human-Robot Interaction Based on Human Emotions Extracted from Speech**
- 10.6. Marovac Ulfeta, Pljasković Aldina, Crnišanić Adela, Kajan Ejub: **N-gram analiza tekstualnih dokumenata na srpskom jeziku**
- 10.7. Fazlagić Samir, Behlilović Narcis, Mrdović Saša: **Controlled Delegation of Signature in Workflow Systems**
- 10.8. Sovilj Platon, Trobok Mirjana, Pinter Akoš, Ković Vanja: **Software for Biomedical P300 Potential Acquisition**
- 10.9. Ugljanin Emir, Kajan Ejub: **Korišćenje ontologija u kreiranju i praćenju nastavnih programa**

**CAA 2 - Уторак, 20.11.2012. године у 17:00 - сала 16/0**  
*STA 2 - Tuesday, 20.11.2012, 17:00 – Hall 1b/0*

**Distribuirano programiranje – Distributed Programming**

**Председавајући: БОШКО НИКОЛИЋ и ЗАХАРИЈЕ РАДИВОЈЕВИЋ**

*Chairpersons: BOŠKO NIKOLIĆ and ZAHARIJE RADIVOJEVIĆ*

- 10.10. Lutovac Maja, Dimić Zoran, Ferenc Goran, Vidaković Jelena, Bućan Mirko: **Virtuelni robot u distribuiranom upravljačkom sistemu**
- 10.11. Stričević Lazar, Rakić Predrag, Hajduković Miroslav: **Finite Strip Method Construction Analysis Program Execution Speed Improvement on an MPI Cluster by Using Multiple Network Links**
- 10.12. Jakimovska Danijela, Jakimovski Goran, Tentov Aristotel, Bojchev Dimitar: **Performance Estimation of Parallel Processing Techniques on Various Platforms**
- 10.13. Grubor Gojko, Njeguš Angelina: **Primena proaktivne digitalne forenzike u Cloud Computing okruženju**
- 10.14. Atanasova T.: **Digital Networked Houses: Problems, Challenges and Trends**
- 10.15. Goloskoković Pavle, Anđelković Igor, Nikolić Boško: **Softverski sistem za razvoj i pokretanje igara za više igrača**
- 10.16. Đuković Marko, Gajić Miloš, Atlagić Branislav: **A Parallel Algorithm for Power Grid Contingency Analysis**
- 10.17. Doko Fisnik, Mishkovski Igor, Filiposka Sonja: **Integrated Business Collaboration in the Cloud**
- 10.18. Abd El-Fattah Hussein, Osman Ibrahim: **Supporting Cloud Computing Using Erlang Programming Language**

**CAA 3 - Среда, 21.11.2012. године у 8:30 - сала 16/0**  
*STA 3 - Wednesday, 21.11.2012, 8:30 – Hall 1b/0*

**Mobilni uređaji i učenje pomoću računara – Mobile Devices and e-Learning**

**Председавајући: МЛАДЕН ВЕИНОВИЋ и МИРОСЛАВ ЛУТОВАЦ**

*Chairpersons: MLADEN VEINOVIĆ and MIROSLAV LUTOVAC*

- 10.19. Marković Suzana: **Modelovanje adaptivnog sistema za učenje na daljinu sa naglaskom na profil studenta (Rad po pozivu / Invited Paper)**
- 10.20. Gnjatović Milan, Suzić Siniša, Morošev Vladimir, Delić Vlado: **A Prototype Conversational Agent Embedded in Android-Based Mobile Phones**
- 10.21. Čajić Miroslav, Brkić Bogdan, Veinović Mladen: **Sistem procjene bezbjednosti Android operativnog sistema**
- 10.22. Sarajlić Asaf, Omerašević Damir: **Connection and Interworking MNO's m-Commerce Platform and Bank's Application for On-line Mobile Prepaid Account Recharging, in the IMS Environment**
- 10.23. Iosif Androuridakis, Vasileios Vlachos, Alexandros Papanikolaou: **Spam Goes Mobile: Filtering Unsolicited SMS Traffic**
- 10.24. Mladenović Vladimir, Lutovac Maja, Lutovac Miroslav: **Electronic Tour Guide for Android Mobile Platform with Multimedia Travel Book**
- 10.25. Ljubović Vedran, Nosović Novica: **Software Metrics in Student Projects**
- 10.26. Lučić Branko, Vujnović Sedlar Nataša, Delić Vlado: **Mogućnosti primene govornih tehnologija u razvoju obrazovnog softvera u školama**

- 10.27. Grujić Dušan, Milić Aleksandar, Dadić Jovana, Despotović-Zrakić Marijana: **Application of IVR in e-learning system**

**CAA 4 - Среда, 21.11.2012. године у 11:00 - сала 16/0**  
*STA 4 - Wednesday, 21.11.2012, 11:00 – Hall 1b/0*

**Veb aplikacije – WEB Applications**

**Председавајући: СУЗАНА МАРКОВИЋ и ЈУЛИЈАНА МИРЧЕВСКИ**

***Chairpersons: SUZANA MARKOVIĆ and JULIJANA MIRČEVSKI***

- 10.28. Jovanović Željko: **Izrada web servisa za pružanje podataka sa mBed baziranog ncap-a**
- 10.29. Biševac Ivan, Rančić Dejan, Pavlović Miroslav: **Grafički prikaz statističkih podataka korišćenjem Web tehnologija**
- 10.30. Savić Sava, Vujović Kristina: **Reinženjering poslovnog sistema primenom koncepta inteligentnog poslovanja**
- 10.31. Jovanović Željko, Tomić Milan, Rančić Siniša: **Realizacija Web GIS platforme korišćenjem open source tehnologija**
- 10.32. Milosavljević Stefanović Ljiljana, Mirčevski Julijana: **Programski alati u forenzičkom postupku utvrđivanja prisutnosti sadržaja na internet sajtovima**
- 10.33. Lazić Krsto, Milošević Milena, Miljković Goran, Ikonić Nikola, Kovačević Jelena: **Jedna implementacija klijenta za dinamički adaptivan prenos podataka preko HTTP protokola**
- 10.34. Pilja Milan, Tomašević Violeta: **Evidencija - web aplikacija za praćenje nastavnih aktivnosti**
- 10.35. Ann Zeki Ablahd, Bassam Ali Mustafa: **Building Function within Mozilla for Web Spam Detection**
- 10.36. Randjelović Dragan, Petrović Ljiljana, Popović Brankica: **Jedna praktična realizacija multifunkcionalnog antihakerskog alata**
- 10.37. Mihály Sági, Mijić Dejan, Milinkov Dejan, Bogovac Bojan: **Smart Home Automation**

**CAA 5 - Среда, 21.11.2012. године у 14:30 - сала 16/0**  
*STA 5 - Wednesday, 21.11.2012, 14:30 – Hall 1b/0*

**Hardverski sistemi – Hardware Systems**

**Председавајући: РАНКО ПОПОВИЋ и БОРИСЛАВ ЂОРЂЕВИЋ**

***Chairpersons: RANKO POPOVIĆ and BORISLAV ĐORĐEVIĆ***

- 10.38. Sremac Siniša, Tepić Jovan, Tanackov Ilija, Stojić Gordan, Kresojević Saša: **Primena RFID tehnologije u lancima snabdevanja energetskim kablovima**
- 10.39. Stamatović Milovan, Jevtić Miloš, Kisić Una, Tatarević Miloš: **Design and Implementation of a Modern Radar Display for Air Surveillance Applications**
- 10.40. Živković Miodrag, Branović Irina, Marković Dragan, Popović Ranko: **Energy Efficient Security Architecture for Wireless Sensor Networks**
- 10.41. Živković Miodrag, Popović Ranko, Tanasković Tamara: **Pregled komercijalno raspoloživih senzorskih platformi sa aspekta potrošnje energije**
- 10.42. Marković Dušan, Pešović Uroš, Randić Siniša: **Specifikacija TEDS-a kod IEEE 1451.0 pametnih pretvarača**
- 10.43. Milinković Stevan, Lazić Ljubomir: **Industrial PLC Security Issues**
- 10.44. Zečević Slađana, Potrebić Milka, Tošić Dejan: **Modelovanje planarnog filtra sa dva propusna opsega u mikrotalasnim softverima**

- 10.45. Bežanić Nikola, Popović Ivan: **Servisno-orijentisana senzorska mreža za praćenje parametara okoline**
- 10.46. Đorđević Borislav, Timčenko Valentina: **Uticaj broja diskova na performanse striping RAID konfiguracija**

**CAA 6 - Среда, 21.11.2012. године у 14:30 - сала 9а/0**  
*STA 6 - Wednesday, 21.11.2012, 14:30 – Hall 9a/0*

**Algoritmi - Algorithms**

**Председавајући: МИЛКА ПОТРЕБИЋ и АЛЕКСАНДАР КУПУСИНАЦ**

***Chairpersons: MILKA POTREBIĆ and ALEKSANDAR KUPUSINAC***

- 10.47. Radovanović Miloš, Potrebić Milka, Tošić Dejan: **Ekstrakcija nula i polova kod češljastih filtara**
- 10.48. Kosmajac Dijana, Vujović Vladimir: **Sigurnost informacionih sistema i proširenje sigurnosti u Jersey RESTful frameworku**
- 10.49. Obradović Slobodan, Tešić Dejan, Milanović Đurđe, Žorić Aleksandar, Perišić Đurđe: **Protokoli i programi u mrežama ATM terminala**
- 10.50. Obradović Slobodan, Tešić Dejan, Milanović Đurđe, Žorić Aleksandar, Perišić Đurđe: **Mreže ATM terminala u regionu srednje i istočne Evrope i Srbiji**
- 10.51. Mitrović Slobodan, Drenovac Dragana, Nedeljković Rano: **Rešavanje „backup“ procesa: tehnika simuliranog kaljenja**
- 10.52. Malbaški Dušan, Kupusinac Aleksandar: **Analysis of Infinite Loops Using S-Formulas**
- 10.53. Filipović Mirjana, Đurić Ana, Kevac Ljubinko: **The Mathematical Model of Aerial Robot in Purpose Increasing of its Autonomy**
- 10.54. Pompei-Cosmin Darab: **Modeling and Internal Model Control Strategy of pH Neutralization Process**
- 10.55. Malbaški Dušan, Kupusinac Aleksandar: **On the Equilibrium of Owner/Component System**
- 10.56. Malbaški Dušan, Kupusinac Aleksandar: **Formalization of the General Rules of the Hoare Logic Using S-Formulas**

**CAA 7 - Среда, 21.11.2012. године у 17:00 – сала 1б/0**  
*STA 7 - Wednesday, 21.11.2012, 17:00 – Hall 1b/0*

**Multimedija - Multimedia**

**Председавајући: ИГОР ТАРТАЉА и ДРАЖЕН ДРАШКОВИЋ**

***Chairpersons: IGOR TARTALJA and DRAŽEN DRAŠKOVIĆ***

- 10.57. Tomašević Violeta, Tomašević Milo: **Kompromis između vremenskih i memorijskih zahteva u kriptoanalitičkom postupku (Rad po pozivu / Invited Paper)**
- 10.58. Stankić Milan, Četić Nenad, Kovačević Jelena, Dimitrašević Miroslav: **Razvoj programske podrške za analizu audio sistema**
- 10.59. Stefanović Miroslav, Četić Nenad, Kovačević Milan, Kovačević Jelena, Janković Miloš: **Voice Control System with Advanced Recognition**
- 10.60. Prvulović Marko, Đurđević Đorđe, Tartalja Igor: **SeeGL: softverski alat za učenje grafičke biblioteke OpenGL**
- 10.61. Miljković Đorđe, Bojić Saša, Đukić Miodrag, Jovanović Miladin: **Automatizacija ispitivanja grafičke korisničke sprege**
- 10.62. Ilić Vojin, Mišić Marko, Tomašević Milo: **Primena grafičkih procesora u obradi zvučnih signala**

- 10.63. Kukulj Sandra, Kaštelan Ivan, Drča Srđan, Ivetić Borivoj: **Detekcija teksta i njegova segmentacija sa TV ekrana**
- 10.64. Jovanović Stefan, Punt Marija, Bjelica Milan, Zdravković Vladan, Kukulj Majda: **Integracija komunikacionih servisa na primeru aplikacije za digitalni TV prijemnik sa Android OS**
- 10.65. Franc Igor, Stojmenović Miloš: **Tehnike manipulacije slikom i detekcija copy-move napada**
- 10.66. Jovičić Nemanja, Smiljković Nikola, Maruna Tomislav, Teslić Nikola, Pavlović Goran, Vrcelj Nikola: **Implementacija i optimizacija grafičke korisničke sprege digitalnog TV prijemnika**

**CAA 8 - Четвртак, 22.11.2012. године у 8:30 - сала 1б/0**  
**STA 8 - Thursday, 22.11.2012, 8:30 – Hall 1b/0**

**Baze podataka – Data Base Systems**

**Председавајући: СЛОБОДАН ОБРАДОВИЋ и БОЈАН ФУРЛАН**

**Chairpersons: SLOBODAN OBRADOVIĆ and BOJAN FURLAN**

- 10.67. Milošević Borivoje, Obradović Slobodan, Nikolić Nenad: **Razvojni procesi BI rešenja**
- 10.68. Beretka Sandor, Varga Ervin: **Proposal of a Multi-Agent System Architecture for use in Energy Management Systems**
- 10.69. Milenković Aleksandar, Stojković Marija, Veljanovski Aleksandar, Janković Dragan: **Softverska podrška radiološkoj službi u okviru medicinskog informacionog sistema MEDIS.NET**
- 10.70. Veljanovski Aleksandar, Stojković Marija, Milenković Aleksandar, Janković Dragan: **Softverska podrška za arhiviranje medicinskih dokumenata u digitalnom obliku u okviru medicinskog informacionog sistema MEDIS.NET**
- 10.71. Roxana Marcu, Dan Popescu: **Integrate Radiology in an ERP System SAP Case Study**
- 10.72. Malkić Jasmina, Sarajlić Nermin, Hadžić Đulaga: **Outliers Influence to the Point Distance Distribution Normality within the Data Clusters**
- 10.73. Stojković Marija, Veljanovski Aleksandar, Milenković Aleksandar, Janković Dragan: **Sistem za automatsko obaveštavanje i primena u medicinskim informacionim sistemima**
- 10.74. Borovina Džemo, Kovačević Selma: **Realizacija kontaktnog centra u JP Elektroprivreda BiH-izazovi i benefiti**
- 10.75. Ristić Nenad, Jevremović Aleksandar, Veinović Mladen: **Identifikovanje homogenih fajlova upotrebom segmentnog hešovanja iniciranog sadržajem**
- 10.76. Radonić Slavko, Kartalija Saša, Samardžija Dragan: **One Solution of a Location Based Service for Vehicle Interlinking**

**CAA 9 - Четвртак, 22.11.2012. године у 11:00 - сала 1б/0**  
**STA 9 - Thursday, 22.11.2012, 11:00 – Hall 1b/0**

**Softverski sistemi – Software Systems**

**Председавајући: СТЕВАН МИЛИНКОВИЋ и НЕНАД ГРБАНОВИЋ**

**Chairpersons: STEVAN MILINKOVIĆ and NENAD GRBANOVIĆ**

- 10.77. Kartalija Saša, Letvenčuk Ivan, Grahovac Jovica, Kovačević Jelena: **Jedno rešenje implementacije asemblerskog uređivača na Java platformi uz pomoć Xtext okvira**



- 10.78. Kovačević Milan, Letvenčuk Ivan, Kovačević Jelena, Kojić Dejan, Milošević Branko: **Proširenje integrisanog razvojnog okruženja Sonnet platforme podrškom za ispitivanje namenske programske podrške putem Groovy skript jezika**
- 10.79. Radovanović Ranko, Radivojević Zaharije, Cvetanović Miloš: **Jedna implementacija simulatora kontrole letenja**
- 10.80. Milanov Goran, Njeguš Angelina: **Upravljanje izmenama zahteva u skladu sa modifikovanim Scrum procesom**
- 10.81. Stanojević Mladen, Marinković Vladimir, Popović Miroslav, Peković Vukota, Kaštelan Ivan: **Integrirano okruženje za razvoj test slučajeva zasnovanih na aktivnostima**
- 10.82. Lazić Ljubomir, Milinković Stevan: **Softversko okruženje za optimalan razvoj kvalitetnog softvera**
- 10.83. Avdić Dženan, Šabotić Zenaida, Lazić Ljubomir: **Povratak investicija (ROI) - Profit eXpert**
- 10.84. Madalin Gavrilescu, Gabriela Magureanu, Dan Pescaru, Ionel Jian: **Towards UML Software Models for Cyber Physical System Applications**
- 10.85. Vuković Dijana, Đurić Zoran, Gligoroski Danilo: **Prijedlog proširenja alata STASEC**
- 10.86. Ribić Samir: **A School Timetable Description Language**

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

**С 1 - Среда, 21.11.2012. године у 8:30 - сала 9а/0**  
*S 1 - Wednesday, 21.11.2012, 8:30 – Hall 9a/0*

**Председавајући: ДЕЈАН ЋИРИЋ и НЕНАД МИЛОШЕВИЋ**

***Chairpersons: DEJAN ĆIRIĆ and NENAD MILOŠEVIĆ***

- 11.1. Jovanović Bojan, Dragišić Vladimir: **Realizacija mikrofona sa promenljivom karakteristikom usmerenosti**
- 11.2. Malešević Jovana, Jojić Jovana: **Jedan pristup detekciji osmeha**
- 11.3. Pantić Radoslav: **Efficiency Analysis of one Class of Uniform Linear Phase Filter Banks**
- 11.4. Vahid Karimi, Ashkan Tashk: **Age and Gender Estimation by Using Hybrid Facial Features**
- 11.5. Ashkan Tashk, Mohammad Sadegh Helfroush: **An Automatic Traffic Control System based on Simultaneous Persian License Plate Recognition and Driver Fingerprint Identification**
- 11.6. Ali Siahkoohi, Moein Ghasemi: **A Content-Based Color Image Watermarking Scheme Robust Against JPEG**
- 11.7. Poolad Imany, Mehdi Yazdanpanah, Sina Miran, Mehrdad Showkatbakhsh: **A Devised Approach to Optimize Color Space Transformation for Image Compression**

**С 2 - Среда, 21.11.2012. године у 17:00 - сала 9а/0**  
*S 2 - Wednesday, 21.11.2012, 17:00 – Hall 9a/0*

**Председавајући: МИЛКА ПОТРЕБИЋ**

***Chairperson: MILKA POTREBIĆ***

- 11.8. Mateski Stojan: **Digital Sound Recorder with ARM microcontroller and SD card**
- 11.9. Stanišić Dušan: **Pulse Modulated Power Supply for the Microwave Oscillator**

- 11.10. Sorocki Jakub, Piekarz Ilona: **Asymmetric Coupled-Line Directional Coupler for Application in 4 x 4 Butler Matrix**
- 11.11. Fariba Ghasemi Najm, Arash Ahmadi: **Practical Calculation Of Loop Inductance In Optimized UHF TV Channel Filter**
- 11.12. Suslov Mikhail: **Survey on the effect of technological metallization and slotting on integrated antenna characteristics**
- 11.13. Razmpa Mahdi, Emami Farzin: **Circuit Simulation of a Self-Assembled Quantum Dot Semiconductor Laser Considering the Excited State**
- 11.14. Jović Aleksandar: **Modeling of the optical waveguide polarization insensitive confinement factor**
- 11.15. Sayyed Majid Mazinani, Behzad Homayounfar, Mohammad Reza Mazaheri: **An Energy Aware and Distance Based Hierarchical Routing Protocol in WSNs**

**С 3 - Четвртак, 22.11.2012. године у 8:30 - сала 9а/0**

*S 3 - Thursday, 22.11.2012, 8:30 – Hall 9a/0*

**Председавајућа: МИРЈАНА СИМИЋ**

*Chairperson: MIRJANA SIMIĆ*

- 11.16. Milinković Aleksandar: **Jedno rešenje upravljanja izolovanom raskrslom**
- 11.17. Panić Dušan: **Funkcionisanje web spider-a I komparativna analiza brzine rada**
- 11.18. Drajić Milica, Kokić Ivan: **Primer uporedne analize mrežnih simulatora NS2 I OPNET IT Guru Academic Edition**
- 11.19. Stanivuk Vladimir: **Measurements of the GSM signal strenght by mobile phone**
- 11.20. Anastasijević Ana: **A practical realisation of kNN indoor positioning model for GSM**

## **РАДОВИ ПО ПОЗИВУ**

### **INVITED PAPERS**

- 2.33. Radonjić Milutin, Radusinović Igor: **CQ Switch Performance Analysis from the Point of Buffer Size and Scheduling Algorithms (Rad po pozivu/ Invited Paper)**
- 2.34. Čiča Zoran: **Analysis and Implementation of Packet Processing Functions in Internet Routers (Rad po pozivu / Invited paper)**
- 3.24. Orlić Vladimir, Dukić Miroslav: **Automatic Modulation Classification: Sixth-order Cumulant Features as a Solution for Real-world Challenges (Rad po pozivu / Invited Paper)**
- 4.37. Mezei Ivan, Malbaša Veljko, Stojmenović Ivan: **Task Assignment in Wireless Sensor and Robot Networks (Rad po pozivu / Invited Paper)**
- 5.10. Makarov A., Lukić V., Španović M.: **Deriving Camera and Lens Settings for Fixed Traffic Enforcement and ALPR Cameras (Rad po pozivu / Invited Paper)**
- 5.18. Popović Branislav, Janev Marko, Delić Vlado: **Gaussian Selection Algorithm in Continuous Speech Recognition (Rad po pozivu / Invited Paper)**
- 5.19. Ćirović Zoran, Milosavljević Milan, Banjac Zoran: **Exploiting Glottal Information for Robust Speaker Verification (Rad po pozivu / Invited Paper)**
- 5.38. Lončar-Turukalo Tatjana, Bajić Dragana: **The Evaluation of sBRR Sequence Random Occurrences: a Model for Surrogate Data (Rad po pozivu / Invited Paper)**
- 7.1. Hannes Toepfer, Komla Amenyo Agla, Olaf Wetzstein, Thomas Ortler: **Modeling of noise-induced jitter in low-power mixed-signal circuits using a SystemC high-level description (Rad po pozivu / Invited Paper)**
- 7.9. Zetik Rudolf, R. S. Thomä: **Ultra-Wideband Channel Sounder – Design, construction and Selected Applications (Rad po pozivu / Invited Paper)**
- 7.17. Milojković Marko, Antić Dragan, Jovanović Zoran, Nikolić Saša, Perić Staniša: **General Concept of Orthogonality Applied in Technical Systems (Rad po pozivu / Invited Paper)**
- 8.1. Kovačević Aleksandar, Osmokrović Predrag: **Evaluation of measurement uncertainty in electromagnetic compatibility testing (Rad po pozivu / Invited Paper)**
- 9.23. Sugaris Aleksandar: **Technologies efficiency simulations for broadcasting networks (Rad po pozivu / Invited Paper)**
- 10.19. Marković Suzana: **Modelovanje adaptivnog sistema za učenje na daljinu sa naglaskom na profil studenta (Rad po pozivu / Invited Paper)**
- 10.57. Tomašević Violeta, Tomašević Milo: **Kompromis između vremenskih i memorijskih zahteva u kriptanalitičkom postupku (Rad po pozivu / Invited Paper)**

**КОМЕРЦИЈАЛНЕ ПРЕЗЕНТАЦИЈЕ**  
**COMMERCIAL PRESENTATIONS**

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	20.11.	13:00-13:45	4/1
Algotech	Уторак/Tuesday	20.11.	14:00-14:45	4/1
TeleGroup	Уторак/Tuesday	20.11.	15:00-15:45	4/1
Saša Čolaković i Dominique Lesaffre: "Motorola Mobility rešenje za novo digitalno multimedijalno doba"				
NES Communications	Уторак/Tuesday	20.11.	16:00-16:45	4/1
NES Cloud				
MDS	Среда/Wednesday	21.11.	11:00-11:45	4/1
SBB Solutions	Среда/Wednesday	21.11.	12:00-12:45	4/1
Mineco computers	Среда/Wednesday	21.11.	13:00-13:45	4/1
Milovan Matijević i Dr Dragan Bogojević: „Sektorska analiza telekomunikacija u Srbiji“				
Rohde-Schwarz	Среда/Wednesday	21.11.	14:00-15:45	4/1

**ФИРМЕ ИЗЛАГАЧИ НА ИЗЛОЖБИ**  
**COMPANIES EXHIBITORS AT THE EXHIBITION**

	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	NES Communications doo	P1
7	CIP-NETWORKS d.o.o.	A1
8	ALGOTECH d.o.o.	P3
9	VLATACOM	F
10	S.V.Line	C1
11	SBB	P2
12	HELIOS	A4
13	ERICOM	A5
14	HUAWEI	C2

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