

# YU INFO 2018

24. Naučna i biznis ICT konferencija

## ICIST 2018

8<sup>th</sup> International Conference on Information Society and Technology

# PROGRAM

**KOPAONIK, 11–14. MART 2018.**

**Sale:**

**Sala 1 - Pančić 1, Grand Hotel • Sala 2 - Pančić 2, Grand Hotel**

Prihvaćeni radovi se prezentiraju na dva načina i to usmenim izlaganjem u okviru **sesija (S)** i prezentiranjem na lap top računarima u okviru **elektronskih poster sesija (P)**.

U tabeli je prikazan broj i oznaka sesija i postera po programskim oblastima Konferencije, a u daljem tekstu Programa dat je **raspored održavanja sesija** i postera po danima i salama, kao i **spisak svih radova** u okviru sesija i postera.

<b>Programska oblast</b>	<b>Sesija (S)</b>	<b>Poster (P)</b>
<b>E-društvo (ED)</b> (e-learning • e-government • e-business • e-health • internet...)	S1	
<b>Digitalni marketing (DM)</b>	S4	
<b>Informacioni sistemi (IS)</b>	S5	
<b>Računarske mreže i telekomunikacije (RT)</b>	S3	
<b>Računarske primene (RP)</b> (proizvodnja • mašinstvo • elektrotehnika • medicina • građevinarstvo...)	S2	P1
<b>Razvoj softvera i alati (SW)</b>	S2	
<b>Veštačka inteligencija i računarska simulacija (VI)</b> (veštačka inteligencija • računarska simulacija • sistemi za podršku odlučivanju • ekspertni sistemi)	S3	
<b>Vojne primene (VP)</b>		P2
<b>Zaštita i sigurnost podataka (ZiS)</b>	S1	
<b>Svega</b> ( <i>Raspored sesija dat je na stranama 2, 3 i od 7 do 13</i> )	<b>5</b>	<b>2</b>
<b>International Conference on Information Society Technology and Management</b>	ICIST	ICIST
<i>Raspored ICIST sesija dat je na stranama 4, 5 i od 14 do 19</i>	Sessions	Posters
<b>Svega</b>	<b>8</b>	<b>2</b>

**UPUTSTVO ZA AUTORE:** Izlaganje radova u okviru sesija traje 5 do 10 minuta, diskusija do 5 minuta, na raspolaganju su računar i video bim. U okviru **elektronskih poster sesija** na raspolaganju su laptop računari u sali za elektronske poster sesije. Autorima se pruža mogućnost da u najkraćim crtama (3 do 5 minuta) upoznaju prisutne sa sadržajem svog rada, a zatim pored laptop računara, zavisno od interesovanja prisutnih učesnika, da detaljnije prikažu rad. Elektronski poster treba pripremiti u formi PowerPoint prezentacije, sa maksimalno 4 slajda, ili u formi kompletnog rada (u pdf formatu) kakav je dostavljen za Konferenciju. Autori treba da na usb stiku sa sobom ponesu pripremljenu PowerPoint prezentaciju kao i kompletan rad koji su dostavili za Konferenciju.

Programski i Organizacioni odbor Konferencije YU INFO  
Predsednik, prof. dr Miodrag Ivković

<b>PROGRAM</b>		
<b>NEDELJA, 11. 03. 2018.</b>		
<i>Sala Pančić 1, Grand hotel</i>		<i>Sala Pančić 2, Grand hotel</i>
16:00	16:00 Registracija učesnika	
17:00	17:00 <b>Otvaranje konferencija YU INFO &amp; ICIST</b>	
17:30	17:30 <b>Keynote session:</b> Nikola Šerbedžija, <i>Fraunhofer FOKUS, Germany</i> <b>Are we ready for digital transformation?</b> Georg Weichhart, <i>PROFACTOR GmbH, Austria</i>	
18:30		
20:00	20:00 <b>ICIST Wine Challenge</b>	
<b>PONEDELJAK, 12. 03. 2018.</b>		
<i>Sala Pančić 1, Grand hotel</i>		<i>Sala Pančić 2, Grand hotel</i>
08:30	08:30 Registracija učesnika	
09:00	09:00 <b>Keynote session:</b> Andrew L. Kun <i>University of New Hampshire, USA</i>	
09:30	9:30 <b>ICIST Special track:</b> <b>ICT for automotive</b>	9:30 <b>ICIST Regular track:</b> <b>Data science</b>
11:30	11:30 <b>YU Info S1:</b> E-društvo, Zaštita i sigurnost podataka	11:30 <b>YU Info S2:</b> Računarske primene, Razvoj softvera i alati
12:00		12:00 <b>YU Info P1:</b> Računarske primene
13:30		
15:00		15:00 <b>ICIST Poster session 1:</b>
16:00	16:00 <b>Workshop</b> <b>Virtuelna istraživačka okruženja (VRE)</b> Prof. dr Dragan Ivanović, FTN, Novi Sad	16:30 <b>ICIST Special track:</b> <b>Health, aging and well-being – Session 1</b>
17:00	17:00 <b>Predavanje po pozivu:</b> Slobodan Nedeljković <b>Komercijalna prezentacija: SAGA:</b> <b>Next Generation CRM (CRM nove generacije)</b> <i>Milica Stefanović i Jelena Ivanović</i>	18:00 <b>ICIST Special track:</b> <b>Health, aging and well-being – Session 2</b>
18:00		
18:45	18:45 <b>Panel diskusija:</b> <b>Digitalna Transformacija,</b> <b>Uloga države i velikih kompanija u digitalnoj transformaciji i ubrzanom IT razvoju Srbije</b> Sava Savić, pomoćnik ministra Ministarstva za trgovinu, turizam i telekomunikacije, Damir Baralić, kompanija ATOS, Dijana Gligorijević, Telegroup, Slobodan Nedeljković, MUP Srbije	
19:00		
19:15		
21:00	21:00 <b>YU INFO &amp; ICIST – ATOS Party, svira Penthouse Band u Gardenu Grand hotela</b>	

<b>PROGRAM</b>		
<b>UTORAK, 13. 03. 2018.</b>		
	<i>Sala Pančić 1, Grand hotel</i>	<i>Sala Pančić 2, Grand hotel</i>
8:30	8:30 Registracija učesnika	
09:30	9:30 <b>ICIST Special track: (Industrial) Internet-of-Things for Smart &amp; Sensing Systems</b>	9:30 <b>ICIST Regular track: Software development</b>
11:30		11:30 <b>YU Info S3:</b> Računarske mreže i telekomunikacije, Veštačka inteligencija i simulacija
13:30		
15:00		15:00 <b>ICIST Poster session 2</b>
16:30		16:30 <b>ICIST Regular track: Information systems – Session 1</b>
17:15	17:15 Predstavljanje naučne monografije <b>Biometrija otiska prsta od momenta rođenja</b> Doc. dr Komlen Lalovic, <i>MEF</i>	
17:30		
17:35	17:35 <b>Komercijalne prezentacije: SOFT LINE</b>	17:30 <b>ICIST Regular track: Information systems – Session 2</b>
17:55	17:55 <i>Telekom Srbije:</i> <b>Digitalizacija korisničkog iskustva</b> Rada Jocić <b>Nagradna igra</b>	
18:20		
18:05	18:05 <b>Panel diskusija:</b> <i>Digitalni marketing: mesto i uloga digitalnog marketinga kod malih i srednjih preduzeća</i>	
18:30		
20:30	<b>Kuglanje YU INFO Telegruop turnir, Kuglana Grand hotela</b>	
<b>SREDA, 14. 03. 2018.</b>		
	<i>Sala Pančić 1, Grand hotel</i>	<i>Sala Pančić 2, Grand hotel</i>
8:30	8:30 <b>YU Info S4:</b> Digitalni marketing	
9:30	9:30 <b>YU Info S5:</b> Informacioni sistemi	8:30 <b>YU Info P2:</b> Vojne primene
11:30	<b>Zatvaranje konferencije</b>	

Programme of the 8th International Conference on Information Society and Technology (ICIST 2018)

<b>PROGRAM</b>		
<b>Sunday, 11. 03. 2018</b>		
<i>Sala Pančić 1, Grand Hotel</i>		<i>Sala Pančić 2, Grand Hotel</i>
16:00	16:00 Registration	
17:00	17:00 <b>Conference Opening</b>	
17:30	17:30 <b>Keynote session</b> Nikola Šerbedžija, <i>Fraunhofer FOKUS, Germany</i> <b>Are we ready for digital transformation?</b> Georg Weichhart, <i>PROFACTOR GmbH, Austria</i>	
18:30		
20:00	20:00 <b>ICIST Wine Challenge</b>	
<b>Monday, 12. 03. 2018</b>		
<i>Sala Pančić 1, Grand Hotel</i>		<i>Sala Pančić 2, Grand Hotel</i>
08:30	08:30 Registration	
09:00	09:00 <b>Keynote session</b> Andrew L. Kun <i>University of New Hampshire, USA</i>	
09:30	9:30 <b>ICIST Special track: ICT for automotive</b>	
11:30		9:30 <b>ICIST Regular track: Data science</b>
13:30		
15:00		15:00 <b>ICIST Poster session 1:</b>
16:30		16:30 <b>ICIST Special track: Health, aging and well-being – Session 1</b>
17:00		18:00 <b>ICIST Special track: Health, aging and well-being – Session 2</b>
18:00		
18:45		
19:00		
19:15		
21:00	21:00 <b>ATOS Party, Penthouse Band, Garden, Grand Hotel</b>	

<b>PROGRAM</b>		
<b>Tuesday, 13. 03. 2018</b>		
	<i>Sala Pančić 1, Grand Hotel</i>	<i>Sala Pančić 2, Grand Hotel</i>
8:30	8:30 Registration	
09:30	9:30 <b>ICIST Special track: (Industrial) Internet-of-Things for Smart &amp; Sensing Systems</b>	9:30 <b>ICIST Regular track: Software development</b>
11:30		
15:00		15:00 <b>ICIST Poster session 2</b>
16:30		16:30 <b>ICIST Regular track: Information systems – Session 1</b>
17:30		17:30 <b>ICIST Regular track: Information systems – Session 2</b>
18:30		
20:30	<b>Sports Challenge - Bowling, Grand Hotel</b>	
<b>Wednesday, 14. 03. 2018</b>		
	<i>Sala Pančić 1, Grand Hotel</i>	<i>Sala Pančić 2, Grand Hotel</i>
11:30	<b>Conference closing</b>	

## PREDAVANJA PO POZIVU, PLENARNA PREDAVANJA, PREZENTACIJE I DRUŠTVENI PROGRAM

---

**NEDELJA, 11. 03. 2018.** *Sala Pančić 1, Grand Hotel*

- 17.30 ■ **Keynote Session**  
*Are we ready for digital transformation?* – Nikola Šerbedžija, *Fraunhofer FOKUS, Germany*  
Georg Weichhart, *PROFACTOR GmbH, Austria*
- 17.30 ■ **ICIST Wine Challenge**

**PONEDELJAK, 12. 03. 2018.** *Sala Pančić 1, Grand Hotel*

- 09.00 ■ **Keynote Session**  
Andrew L. Kun , *University of New Hampshire, USA*
- 16:00 ■ **Workshop:**  
*Virtuelna istraživačka okruženja (VRE)*, Prof. dr Dragan Ivanović, FTN, Novi Sad
- 17:00 ■ **Predavanje po pozivu:**  
Slobodan Nedeljković
- **Komercijalna prezentacija**  
*SAGA: Next Generation CRM (CRM nove generacije)*, Milica Stefanović i Jelena Ivanović
- 18:45 ■ **Panel diskusija:**  
*Digitalna Transformacija,*  
*Uloga države i velikih kompanija u digitalnoj transformaciji i ubrzanom IT razvoju Srbije*  
Sava Savić, pomoćnik ministra *Ministarstva za trgovinu, turizam i telekomunikacije*  
Damir Barailić, *kompanija ATOS*, Dijana Gligorijević, *Telegroup*,  
Slobodan Nedeljković, *MUP Srbije*
- 21.00 *Garden, Grand Hotel*  
**YU INFO & ICIST – ATOS Party with Penthouse Band**

**UTORAK, 13. 03. 2018.** *Sala Pančić 1, Grand Hotel*

- 17:15 ■ **Predstavljanje naučne monografije**  
*Biometrija otiska prsta od momenta rođenja* - Doc. dr Komlen Lalovic, *MEF*
- 17:35 ■ **Komercijalna prezentacija**  
**SOFT LINE**
- 17:55 ■ **Komercijalna prezentacija**  
**Telekom Srbije: Digitalizacija korisničkog iskustva**, Rada Jocić  
**Nagradna igra**
- 18.05 ■ **Panel diskusija**  
*Digitalni marketing*  
*Mesto i uloga digitalnog marketinga kod malih i srednjih preduzeća*
- 21.00 ■ *Grand Hotel*  
**YU INFO & ICIST Sports Challenge - Bowling (kuglanje)**

## SPONZORI PROGRAMA

---

Atos, Asseco, Idego , Ingram, MTS - Telekom Srbija, SAGA new frontiers group, SoftLine, TeleGroup

# YUINFO 2018 – Pregled svih radova po sesijama

## Sesija S1 – Programske oblasti: E-društvo, Zaštita i sigurnost podataka

11:30-13:30, ponedjeljak, 12. mart 2018. (Sala Pančić 1, Grand hotel)

R.br.	Autori	Naslov rada
1.	Milos Kostic, Dejana Stefanovic-Kostic and Aleksandra Tomic	PREPARING FOR SOA GOVERNANCE IN DSO “EPS DISTRIBUCIJA”
2.	Miloš Zlatković	UPOREDNA ANALIZA GraphQL i RESTful NAČINA IMPLEMENTACIJE VEB SERVISIA
3.	Nikola Džaković, Nikola Dinkić, Jugoslav Joković, Leonid Stoimenov and Aleksandra Djukić	PRIMENA WEB APLIKACIJE ZA OBRADU PODATAKA SA DRUŠTVENE MREŽE TWITTER ZA ANALIZU TURISTIČKIH POTENCIJALA – STUDIJA SLUČAJA: SMEDEREVSKA I GOLUBAČKA TVRĐAVA
4.	Katarina Đorđević, Tamara Naumović, Lazar Živojinović and Marijana Despotović-Zrakić	C2C MODELI ELEKTRONSKOG POSLOVANJA: PRIMER PORTALA ZA PRONALAZENJE PASA
5.	Ida Kolinović	CHILDREN AND THE INTERNET - COMPARATIVE ANALYSIS OF MONTENEGRIN AND EU LEGISLATION
6.	Aleksandar Barbul, Tatjana Stojadinović and Miodrag Brzaković	UNAPREĐENJE RADA APOTEKE PRIMENOM B2C I G2B FORMI E-POSLOVANJA
7.	Predrag Matković, Mirjana Marić, Pere Tumbas and Jovica Đurković	DIGITAL TRANSFORMATION OF BUSINESS
8.	Saša Vulović and Slobodan Aleksandrov	PRIMENA SOFISTICIRANIH METODA ZA KRIPTOVANJE I DEKRIPTOVANJE PODATAKA
9.	Goran Matić and Milan Miljković	IZAZOVI KOORDINACIJE SAJBER BEZBEDNOSTI U REPUBLICI SRBIJI U USLOVIMA KRIZNIH SITUACIJA - CHALLENGES OF COORDINATION OF CYBER SECURITY IN THE REPUBLIC OF SERBIA IN TERMS OF CRISIS SITUATIONS
10.	Petar Ljubić, Bratislav Predić and Miloš Roganović	TEHNIKE ZAŠTITE ANDROID APLIKACIJA I KODA OD OBRNUTOG INŽENJERINGA
11.	Marko Micovic, Uros Radenkovic, Vladimir Jocovic, Tamara Sekularac, Filip Hadzic, Zivojin Sustran and Drazen Draskovic	IMPLEMENTATION DETAILS OF THE STREAM CIPHER CRYPTO1
12.	Marko Krstić and Dušan Raičević	POBOLJŠANJE SPREMNOSTI DRŽAVNIH ORGANA REPUBLIKE SRBIJE ZA ODGOVOR NA SAJBER NAPADE
13.	Slavisa Djukanovic, Vojkan Nikolić and Duško Sivčević	PREDIKTIVNA ANALITIKA U FUNKCIJI POVEĆANJA BEZBEDNOSTI GRADJANA
14.	Miladin Ivanović, Predrag Đikanović and Vojkan Nikolić	MODEL INFORMACIONOG SISTEMA ZA KRIPTOZASTICEN PRENOS POVERLJIVIH PODATAK

**Sesija S2 – Programska oblast: Računarske primene, Razvoj softvera i alati**

11:30-12:00, ponedjeljak, 12. mart 2018. (Sala Pančić 2, Grand hotel )

<b>R.br.</b>	<b>Autori</b>	<b>Naslov rada</b>
1.	Milos Ivanovic	ACHIEVING INTEROPERABILITY IN EUROPEAN ELECTRONIC TOLL COLLECTION SYSTEMS (EETCS) BASED ON AUTOMATIC LICENSE PLATE RECOGNITION (ALPR)
2.	Ljubiša Jovanović	POWER FACTOR MEASUREMENT METHOD IMPLEMENTED IN THE HIGH-ACCURACY WATTMETER
3.	Miloš Danilović and Oliver Ilić	KOEFICIJENT RAZLIČITOSTI ZA REŠAVANJE PROBLEMA FORMIRANJA PROIZVODNIH ČELIJA
4.	Nedjeljko Lekic	IDENTIFIKACIONI SISTEM ZA PREPOZNAVANJE DUZICE OKA ZASNOVAN NA UPOTREBI VistaFA2 BioCAM
5.	Filip Hadzic, Zaharije Radivojevic, Marko Micovic and Uros Radenkovic	CONFIGURABLE PIPELINED ARITHMETIC LOGIC UNITS
6.	Maja Milić, Petar Bjeljac and Marjan Maruna	RADNI OKVIR ZA AUTOMATIZOVANO MODELOVANJE PODATAKA
7.	Đorđije Dupljanin, Slavisa Dumnić, Dubravko Čulibrk and Vladimir Božović	WEB APLIKACIJA ZA KOLABORATIVNI SISTEM DOSTAVE POŠILJAKA



**Poster sesija P1 – Programska oblast: Računarske primene**

12:00-13:30, ponedjeljak, 12. mart 2018. (Sala Pančić 2, Grand Hotel)

R.br.	Autori	Naslov rada
1.	Gyula Mester	AUTONOMNI SAMOVOZEĆI AUTOMOBILI
2.	Snezana Sucurovic	ORACLE E-BUSINESS SUITE NA ORACLE CLOUD TEHNOLOGIJI
3.	Radoslav Korlat, Miroslav Babić and Goran Stojadinović	IMPLEMENTATION OF THE SYSTEM FOR RECORDING CONVERSATIONS ON RAILWAY TRANSPORT TENT
4.	Dejan Pavlović	NEKE OD PRIMENA BESPILOTNIH LETELICA U ŠUMARSTVU I ZAŠTITI ŽIVOTNE SREDINE
5.	Miroslav Stefanović and Sanja Maksimović	UPRAVLJANJE PROMENAMA U DINAMIČNOM OKRUŽENJU
6.	Olivera Janković and Đorđe Babić	KVANTIFIKOVANJE RELEVANTNOSTI PREDIKTORA, PREDIKTIVNOG MODELA ODRŽAVANJA AVIONSKOG MOTORA
7.	Miklós Póth and Robert Pinter	DIGITAL IMAGE COMPRESSION USING BIT PLANE SLICING METHOD
8.	Goran Kacarevic, Vlade Urosevic, Olga Ristic and Biljana Savic	RAZVOJ SISTEMA ZA UPRAVLJANJE GRUPOM KORAČNIH MOTORA KORISTEĆI RASPBERRY PIE PLATFORMU
9.	Boris Krunic and Nevena Cvijanović	APPLICATION OF ARCGIS AND HEC-RAS TOOLS IN DETERMINATION OF FLOODPLAIN AREAS
10.	Nives Kaprocki, Jelena Kovačević and Nenad Pekez	Advanced profiling for DSP applications
11.	Kristina Mijić	OBELODANJIVANJE FINANSIJSKIH INFORMACIJA JAVNOG SEKTORA NA INTERNETU
12.	Kosanovic Mirko, Kosanovic Milos and Kosanovic Vesna	RIZICI KORIŠĆENJA ANDROID APLIKACIJA

**Sesija S3 – Programske oblasti: Računarske mreže i telekomunikacije,  
Veštačka inteligencija i simulacija**

11:30-13:30, utorak, 13. mart 2018. (Sala Pančić 2, Grand hotel)

<b>R.br.</b>	<b>Autori</b>	<b>Naslov rada</b>
1.	Zoran Janković and Milosav Grubović	REGULATORNI IZAZOVI U PROCESU UVOĐENJA M2M/IoT USLUGA
2.	Vladimir Matic, Aleksandar Lebl, Dragan Mitic and Zarko Markov	Centralizovana detekcija neispravnih veza u mešovitoj telefonskoj mreži
3.	Ugljesa Urosevic and Zoran Veljovic	UTICAJ NEIDEALNE ESTIMACIJE KANALA NA PERFORMANSE CELULARNOG POKRIVANJA PREKO UAV-ova
4.	Danijela Aleksić, Saša Gavrić, Nemanja Protić and Miljana Milić	SINGLE RAN U MREŽI "TELEKOM SRBIJA" PODRUČJE KOPAONIKA
5.	Nenad Radosavljevic	CONTINUOUS MONITORING OF THE ELECTROMAGNETIC FIELD LEVEL
6.	Filip Ilic, Djordje Nisic and Dusan Djoric	WIRELESS CONTROL OVER A MOBILE ROBOT VIA Wi-Fi NETWORK USING Raspberry Pi3 device
7.	Milana Prodanov, Marija Punt, Nadica Miljkovic and Sanja Delcev	SOFTVERSKI SISTEM ZASNOVAN NA BIOFEEDBACK METODI
8.	Goran Petrovic and Ljubisa Petrovic	VIŠENAMENSKE BEŽIČNE MREŽE
9.	Marko Radivojevic, Petar Knezevic, Branislav Tomic, Mihailo Stanic and Dejan Drajić	SOFTVERSKA INTEGRACIJA CFP MODULA U NMS SISTEM SUNCE-O ZA OTN/DWDM PLATFORMU OTP100G IRITEL
10.	Katarina Milović, Danijela Pjevčević, Vladislav Maraš and Aleksandar Radonjić	SIMULATION MODEL OF TRANSPORT OF BUILDING MATERIALS ON INLAND WATERWAYS
11.	Dragica Jovanović, Marko Bursać and Zoran Bundalo	PREGLED KORIŠĆENJA INTELIGENTNIH ŽELEZNIČKIH SISTEMA
12.	Drazen Draskovic, Nemanja Kojic, Marko Micovic and Uros Radenkovic	IMPLEMENTACIJA SISTEMA ZA PRIKUPLJANJE PODATAKA, GENERISANJE KLASTERA I PREPORUKA POMOĆU MAŠINSKOG UČENJA
13.	Aleksandra Vukmirovic, Jovanka Vukmirović, Ana Zekavica, Milica Branković and Nikola Vujanović	BIG DATA U FUNKCIJI SPRECAVANJA TERORIZMA

**Sesija S4 – Programaska oblast: Digitalni marketing**08:30-9:30, sreda, 14. mart 2018. (*Sala Pančić 1, Grand hotel*)

R.br.	Autori	Naslov rada
1.	Komlen Lalovic and Jelena Lalovic	DIGITALNI MARKETING I POSTIZANJE VRHUNSKIH REZULTATA U OVOJ OBLASTI
2.	Sasa Virijević Jovanović and Suzana Doljanica	THE POSSIBILITIES OF DIGITAL MARKETING IN FASHION INDUSTRY
3.	Natasa Kablar	DIGITAL MARKETING IN PRODUCTS AND SERVICE PROMOTION
4.	Ana Obrenović and Bojana Vulović	360° OF FACEBOOK
5.	Đorđe Mitrović and Nikola Preković	MULTI-LEVEL MARKETING, RevShare PROGRAM I KRIPTOVALUTA Futuro U SOCIJALNOJ MREŽI FutureNet
6.	Miloš Mastilović and Aleksandar Barbul	INTERNET MARKETING: INVESTICIJA ILI INVESTICIJA
7.	Milena Sretić and Dina Lazarević	ZNAČAJ DIGITALNOG MARKETINGA / THE IMPORTANCE OF DIGITAL MARKETING
8.	Tatjana Jovanac, Valentina Kovač, Danijela Stanišić, Aleksandar Šijjan	GAMIFICATION-NEW CONCEPT OF MOTIVATION EMPLOYEES
9.	Ana Obrenović, Tatjana Stojadinović and Miodrag Brzaković	PLANIRANJE I IMPLEMENTACIJA E-POSLOVANJA U TURISTIČKOJ AGENCIJI

**Sesija S5 – Programaska oblast: Informacioni sistemi**9:30-11:30, sreda, 14. mart 2018. (*Sala Pančić 1, Grand hotel*)

R.br.	Autori	Naslov rada
1.	Rajko Terzic, Milosav Majstorović and Anđelija Nešković	PRISTUP SPECIFIKACIJI ZAHTEVA ZA RAZVOJ SISTEMA "FAKTURISANA REALIZACIJA U ZDRAVSTVENOJ ZAŠTITI"
2.	Nevena Cvijanović, Boris Krunić and Vojislav Antonić	APPLICATION OF GIS TOOLS IN FLOOD RISK MAPPING
3.	Đuro Klipa, Radovan Bezbradica and Rade Dragovic	INFORMATION SYSTEM OF THE CONSTITUTIONAL COURT OF SERBIA
4.	Nenad Marković	APLIKACIJA ZA ANALIZU I AŽURIRANJE BAZE PODATAKA O KATASTARSKIM PARCELAMA DATIM NA KORISCENJE JP SRBIJASUME
5.	Milica Branković, Ana Zekavica, Nikola Vujanović and Aleksandra Vukmirović	ANALIZA NEDOSTAJUĆIH PODATAKA

**Poster sesija P2 – Programska oblast: Računarske primene u vojsci**08:30-11:30, sreda, 14. mart 2018 (*Sala Pančić 2, Grand Hotel*)

<b>R.br.</b>	<b>Autori</b>	<b>Naslov rada</b>
1.	Jovana Mihailov, Boriša Jovanović and Boban Mihailov	ADD-IN FOR SELECTIVE ENCRYPTION OF THE TEXT WITHIN MICROSOFT WORD DOCUMENT
2.	Vladimir Kekić, Filip Nikolić, Stefan Bozanic and Stefan Sretenovic	MODEL OF HOMING GUIDANCE IN MATLAB-Simulink PROGRAM ENVIRONMENT
3.	Lazar Stevanović, Lazar Đorđević and Stefan Đurić	ODREĐIVANJE GPS KOORDINATA, SLANJE NMEA REČENICE PUTEM GPRS I PRIKAZ LOKACIJE NA MAPI
4.	Rade Pavlović and Vladimir Petrović	GRADIJENTNA METODA ZA PROCENU USPEŠNOSTI SJEDINJAVANJA KOLOR I MONOHROMATSKIH SLIKA
5.	Jordan Atanasijević and Nevena Stanković	KOMPARATIVNA ANALIZA KOMPLEKSNIH UPITA NAD BAZOM PODATAKA I SKLADIŠTEM PODATAKA
6.	Nikola Savkić, Momir Stanković and Stojadin Manojlović	ANALIZA PERFORMANSI PID REGULATORA SA FILTRIMA ŠUMA MERENJA
7.	Stefan Djuric, Petar Lukic and Ivan Tot	INFORMACIONI SISTEM ZA VOĐENJE EVIDENCIJE POKRETNIH STVARI
8.	Ivan Tot, Dušan Bogičević and Komlen Lalović	UPOTREBA RAZVIJENIH MIDDLEWARE U ARHITEKTURI IOT
9.	Zoran Denda and Zeljana Vucetic	ELASTICSEARCH CLUSTER AND FILE INDEXING
10.	Željana Vučetić and Zoran Denda	ASSESSMENT OF DOCUMENT SIMILARITY USING DIFFERENT TECHNIQUES TO EXTRACT MEANING OF THE TEXT
11.	Goran Šimić, Tamara Gajić and Stefan Vukadinović	VIRTUELNE SIMULACIJE U VOJNOM OBRAZOVANJU
12.	Stefan Sretenovic, Stefan Bozanic, Dejan Krsljanin, Radomir Prodanovic and Vladimir Kekic	IMPLEMENTATION AND VERIFICATION OF THE AES ALGORITHM ON ATMEGA32 MICROCONTROLLER
13.	Stefan Božanić, Stefan Sretenović, Vladimir Kekić and Mladen Antonić	CONNECTING ANDROID APPLICATION WITH ARDUINO THROUGH MQTT PROTOCOL
14.	Vladimir Dobrosavljevic, Mladen Veinovic and Mladen Trikos	MIKROSEGMENTACIJA U CLOUD-U
15.	Mladen Trikoš, Vladimir Dobrosavljević, Dejan Simic and Dejan Savić	SISTEM IDENTIFIKACIJE SLEDEĆE GENERACIJE
16.	Nebojša D. Djordjević, Dejan Rancic, Olivera Pronic Rancic and Uwe Siart	FLEXIBILITY: KEY USABILITY FACTOR OF WEB APPLICATIONS
17.	Davorin Mikluc, Milenko Andrić, Boban Bondžulić and Srdjan Mitrović	THE LABVIEW APPLICATION IN PARAMETER ESTIMATION OF MOVING TARGET IN MONO INFRARED VIDEO SENSOR SYSTEM
18.	Nenad Stojanovic, Boban Bondzulic, Vladimir Petrovic and Davorin Mikluc	OBJEKTIVNA PROCENA KVALITETA SLIKA SA VIŠESTRUKIM DISTORZIJAMA
19.	Dejan Milenkovic and Dejan Krsljanin	IMPORTANCE OF DOCUMENT MANAGEMENT IN MOD AND SAF AND ACHIEVED DEGREE OF DEVELOPMENT
20.	Lazar Đorđević, Lazar Stevanović, Boban Bondžulić, Ivan Tot and Mladen Trikoš	ANALIZA MOGUĆNOSTI PRIMENE KROS-KORELACIJE U VERIFIKACIJI KORISNIKA NA OSNOVU OTISKA PRSTA

21.	Milinko Sreckovic and Davorin Mikluc	DIGITAL DC MOTOR SPEED CONTROL USING THYRISTOR AND SOFTWARE LABVIEW
22.	Marko Novčić, Boban Bondzalic, Boban Pavlović, Jovan Bajčetić and Ivan Tot	OBJEKTIVNA PROCENA KVALITETA VIDEO SEKVENCI SA PAKETSKIM GUBICIMA
23.	Filip Mladenović, Milenko Andrić, Boban Bondžulić and Davorin Mikluc	ANALYSIS OF FINITE DIGITAL WORD LENGTH EFFECTS DURING IMPLEMENTATION OF IIR FILTERS
24.	Katarina Manojlović	THE EFFECT OF WRED MECHANISM ON QUALITY OF SERVICE IN PACKET DEFINED NETWORKS
25.	Boriša Jovanović, Ivan Tot and Slavko Gajin	ANALYSIS AND IMPLEMENTATION OF AES CRYPTOGRAPHIC ALGORITHM ON CUDA GRAPHIC PROCESSING UNITS

# 8th International Conference on Information Society and Technology – ICIST 2018

## Programme

---

### Sunday, 11.3.2018

16:00-17:00 **Registration**, Room Pančić 1, Grand Hotel

17:00-17:30 **Opening Ceremony**, Room Pančić 1, Grand Hotel

17:30-18:30 **Keynote session**  
Room Pančić 1, Grand Hotel

Nikola Šerbedžija, <i>Fraunhofer FOKUS, Germany</i> Georg Weichhart, <i>PROFACTOR GmbH, Austria</i>
--

20:00 **ICIST Wine Challenge**  
Room Pančić 1, Grand Hotel

### Monday, 12.3.2018

9:30-11:30 **Special track: ICT for automotive**  
Room Pančić 1, Grand Hotel

1	Kristina Stojmenova and Jaka Sodnik	Detection-Response Task: How intrusive is it?
2	Mojca Komavec, Marko Balažič and Jaka Sodnik	Simulation Environment for Testing Autonomous Vehicles
3	Erika Miller and Linda Boyle	Effects of Exposure and Withdrawal of a Lane Keeping System
4	Tomaž Čegovnik, Igor Tartalja and Jaka Sodnik	A comparison of vehicles user interface modalities in terms of User Experience
5	Matevž Jekovec, Gregor Kralj, Klemen Trontelj, Klemen Novak and Sašo Tomažič	Evaluation of Road Design through Driving Simulation – a Technical Review
6	Erik Dovgan, Ivan Bratko and Jaka Sodnik	Discovering Human-like Driving Strategies with Learning and Optimization Approaches
7	Rodrigo Meira de Andrade and Marcelo Rudek	A Machine Learning Based Method for Pedestrian and Vehicle Collision Detection
8	Zeljko Jovanović, Aldina Avdić and Dragan Jankovic	Transportation in smart cities - tracking and improving driving comfort

## Monday, 12.3.2018

9:30-11:30 **Regular track: Data science**

*Room Pančić 2, Grand Hotel*

1	Milan Stojkovic, Dragana Obradovic and Nikola Milivojevic	Assessing uncertainty in hydrological modelling by using hydroinformatics platforms with varying complexity
2	Aleksandra Dedinec and Aleksandar Dedinec	Deep belief networks for electricity price forecasting
3	Nikola Tomasevic, Dejan Paunovic and Sanja Vraneš	User-based collaborative filtering approach for content recommendation in OpenCourseWare platforms
4	Dejan Rančić, Vladan Mihajlović, Miloš Bogdanović, Nikola Davidović, Uwe Siart and Olivera Pronić Rančić	An approach for flood prediction visualization based on atmospheric transmission measurements and spatial interpolation methods
5	Zarko Cojbasic, Nemanja Markovic, Nedeljko Ducic, Miroslav Trajanović, Marina Stojiljkovic and Andrija Petrušić	Deep Learning and IoT Based Load/Demand Forecasting for District Heating
6	Valentina Timčenko and Slavko Gajin	Machine Learning based Network Anomaly Detection for IoT environments
7	Milena Mišić, Aleksandar Stanimirović and Leonid Stoimenov	Evaluation of Neural Networks Based Systems for DNA Motif Discovery

15:00-16:30 **Poster session 1**

*Room Pančić 2, Grand Hotel*

1	Milos Ivanovic	Achieving enterprise interoperability through integration Conway's law and Functional Silos in mutual support mode: Case study of traffic management systems
2	Ivana Jovović, Nataša Čirović and Tamara Koledin	Application-inspired learning of mathematics for students of electrical engineering with the aid of Geogebra as an information technology tool
3	Sandrina Dimitrijevic	A conceptual framework for verification of complex system simulations
4	Milan Paroski and Milan Mihajlovic	Use of ITIL
5	Mirjana Kranjac, Srdjan Tomic, Stanko Bulajic and Jakob Salom	ICT in focus of Smart specialization strategy of Serbia?
6	Milan Zdravković, Nikola Vitković, Miroslav Trajanović, Milan Trifunović and Nikola Korunović	Model-based, client-side integration of heterogeneous data from REST services
7	Komlen Lalovic	Fingerprint biometrics in service public health system at birthplaces
8	Marija Blagojević and Danijela Milošević	An approach for analyzing of published manuscript with Natural Language Toolkit (NLTK) using Python
9	Dragan Ivanović, Maria Theodoridou and Laurent Remy	A mapping tool for semantic interoperability of research information systems
10	Lazar Nikolić, Marko Letić, Igor Dejanović and Bojana Zoranović	Adaptation of HTTP request-response messaging to arbitrary messaging pattern in RESTful service oriented architectures

## Monday, 12.3.2018

### 16:30-18:00 **Special track: Health, aging and well-being – Session 1**

*Room Pančić 2, Grand Hotel*

1	Anton Kos, Anton Umek and Sašo Tomažič	Participatory Sensing in Evaluation of Smartphone Inertial Sensors for Mobile Applications in Healthcare and Sport
2	Anton Umek, Milivoj Dopsaj and Anton Kos	Robust equipment design for a real-time coaching feedback support in watersports
3	Mario Šokac, Igor Budak, Željko Santoši, Kristian Kadvany, Tatjana Puškar and Đorđe Vukelić	Emergence of new technologies in the designing and fabrication of patient-specific removable partial dentures (RPDs): A case study
4	Sara Stancin and Sašo Tomažič	A Comparison of Daily Activity Classification Techniques for Wearables
5	Ivan Radosavljević, Aleksandra Mitrović, Zora Konjović, Đorđe Obradović and Vuk Malbaša	Software System for Automated Assessment of the Breast Cancer Risk from Mammograms
6	Miloš Kosanović, Slavmir Stosović and Dragan Stojanović	Smartwatch based elderly health monitoring system
7	Žarko Čojbašić, Irena Čojbašić, Miroslav Trajanović and Nemanja Markovic	Machine learning leukemia clinical outcome prediction

### 18:00-19:00 **Special track: Health, aging and well-being – Session 2**

*Room Pančić 2, Grand Hotel*

1	Aleksandra Vulovic, Fernando Warchomicka, Claudia Ramskogler, Christof Sommitsch and Nenad Filipovic	Simulation of the interlocking capacity of modified hip implant surface
2	Tijana Sustersic, Aleksandra Vulovic, Rubén Braojos, Sebastien Baumann, Ivan Cekerevac, Romana Susa, Srinivasan Murali, Petros Malitas and Nenad Filipovic	Automatic Sleep Apnea Detection based on Nasal Flow Signal
3	Smiljana Djorovic, Igor Koncar, Lazar Davidovic and Nenad Filipovic	Aortoiliac aneurysm: examination of biomechanical characteristics for an individual patient
4	Vladimir Urosevic, Ana Kovacevic, Firas Kaddachi and Milan Vukicevic	Temporal clustering and anomaly detection in elderly friendly smart cities based on Hidden Markov Models
5	Jelena Mitić, Nikola Vitković, Miodrag Manić and Miroslav Trajanović	Improvement of the geometrical accuracy of the human mandible body parametric model
6	Fernando Ferreira, João Sarraipa, Gary McManus and Milan Zdravkovic	IoT for active and secure aging with Alzheimer

22:00

### **YUINFO & ICIST Party**

*Garden Grand hotel*



## Tuesday, 13.3.2018

9:30-11:30 **Special track: (Industrial) Internet-of-Things for Smart & Sensing Systems**  
*Room Pančić 1, Grand Hotel*

1	Biljana Stojkoska, Kire Trivodaliev and Slobodan Kalajdziski	Internet of toys: mission, vision and future applications
2	Valentina Timčenko, Nikola Žogović and Borislav Đorđević	Interoperability for the sustainability assessment framework in IoT like environments
3	Milan Stojkov, Miloš Simić, Goran Sladić and Branko Milosavljević	Two-step process for secure registration of nodes in IoT systems
4	Dejan Arsenijević, Stevan Stankovski, Gordana Ostojić, Igor Baranovski and Dragana Oros	An Overview of IoT Readiness Assessment Methods
5	Nenad Stefanovic and Danijela Milošević	Framework for connected supply chain based on Internet of Things and cloud services
6	Ioan Stefan Sacala, Mihnea Alexandru Moisescu, Ioan Dumitrache and Dragos Repta	Cyber - Physical Systems based Process Integration for Future Enterprise Systems
7	Concetta Semeraro and Michele Dassisti	Smart Sustainable Manufacturing: a new Factory-Lab for testing Industry 4.0 principles
8	Artem Nazarenko, João Sarraipa, Paulo Figueiras, Ruben Costa and Ricardo Jardim-Goncalves	Adoption of a FIWARE based platform in intelligent transportation systems

9:30-11:30 **Regular track: Software development**  
*Room Pančić 2, Grand Hotel*

1	Dragan Vidaković, Milan Segedinac, Zora Konjović and Goran Savić	Extensible Python Library for Managing Probabilistic Knowledge Structures
2	Aleksandra Mitrović, Mladen Vidović, Ivan Radosavljević, Miloš Mladenović, Goran Savić, Milan Segedinac and Zora Konjović	Software for an eye tracking device enabling analysis of a student's interaction with program code
3	Yordan Yankov, Aleksandar Dimov and Krasimir Baylov	Platform for Discovery of Microservice Instances
4	Ljiljana Milješić and Miroslav Zarić	Derivative IaaS Layer Utilizing Low Priority Server Instances for Web Applications With State Persistence
5	Jovana Vidaković, Sonja Ristic, Slavica Kordić and Ivan Luković	The Extended Referential Integrity Constraint Type - Specification and Implementation in Relational and XML Database Management Systems
6	Nenad Todorović, Aleksandar Lukić, Bojana Zoranović, Renata Vaderna, Željko Vuković and Sebastijan Stoja	RoseLib: A Library for Simplifying .NET Compiler Platform Usage
7	Aleksandar Bošnjak, Aleksandar Kaplar, Sebastijan Kaplar, Milorad Filipović, Željko Ivković, Sebastijan Stoja and Željko Vuković	WPFGen: A Code Generator for Rapid Development of Windows Presentation Foundation Applications

## Tuesday, 13.3.2018

### 15:00-16:30 Poster session 2

*Room Pančić 2, Grand Hotel*

1	Valentina Nejkovic, Nenad Milosevic, Filip Jelenković, Zorica Nikolić and Milorad Tosic	Data driven design for reliability of IoT applications
2	Nikola Zogovic, Snežana Pantelić and Dragan Stošić	Monitoring Open Pit Mining in TE-KO Kostolac –Issues and Challenges
3	Jelena Stankovski, Stefan Dejanovic, Aleksandar Erdeljan and Imre Lendak	Benefit analysis of blockchain technology on Hyperledger and Ethereum platform
4	Vinicius Biscolli Biasi, Marcelo Rudek, Anderson Szejka and Osiris Canciglieri Junior	Formalization of a knowledge Base Applied to Dental Implants
5	Sebastijan Kaplar, Marija Radojičić, Ivan Obradović, Biljana Lazić and Ranka Stanković	Solution for quantitative analysis of texts in Serbian based on syllables
6	Milan Đurović, Marko Batić and Nikola Tomašević	An Overview of Techniques for Non-Intrusive Load Monitoring
7	Ramona Markoska and Aleksandar Markoski	The semantic web conceptual solution and working ontology for tourism ecosystems
8	Ivan Vulić, Radomir Prodanović, Gradimir Vukčević and Stefan Sretenović	Trust Establishing Model in IoT using PKI and Timestamp
9	Aleksandra Veljovic and Milan Matijevic	Multi-Tank system as cyber-physical system in engineering education
10	Milan Dotlić, Milenko Pušić, Goran Jevtić and Milan Dimkić	qGrains – Software for hydraulic conductivity estimation from granulometry
11	Ivana Pakši, Tomislav Galeta, Ana-Marija Bodlović and Pero Raos	3D print of customized child orthosis

### 16:30-17:30 Regular track: Information systems – Session 1

*Room Pančić 2, Grand Hotel*

1	Nikola Luburić, Goran Sladic, Aleksandar Kaplar and Branko Milosavljevic	Demonstrating Enterprise System Security Using an Asset-Centric Security Assurance Framework
2	Miloš Simić, Milan Stojkov, Goran Sladić and Branko Milosavljević	Edge computing system for large-scale distributed sensing systems
3	Danijela Tešendić and Danijela Boberić-Krstićev	Improving Library Services using Business Intelligence
4	Zoran Veličković, Zoran Milivojevic and Marko Veličković	The Watermark Applications in Multimodal Biometric Identification
5	Srdja Bjeladinovic, Marko Asanovic and Natasa Gospic	Recommendations for Creation of Green IT Strategy in Public Sector
6	Dubravka Sladić, Aleksandra Radulović and Miro Govedarica	Formal Semantics in 3D Cadastre

## Tuesday, 13.3.2018

17:30-18:30 **Regular track: Information systems – Session 2**

*Room Pančić 2, Grand Hotel*

1	Aleksa Mirković, Marina Nenić, Dušan Gajić, Branko Terzić and Ivan Luković	An Application of Blockchain Distributed Systems for Supply Chains in the Pharmaceutical Industry
2	Dragan Vidaković, Stevan Gostojić and Aleksandar Kovačević	Serbian Legislation as a Network
3	Siniša Nikolić, Valentin Penca and Dragan Ivanović	Mapping scheme from RIS to CERIF
4	Nikola Todorović, Vladimir Ivković, Slavica Kordić, Vladimir Dimitrieski and Ivan Luković	IrrigDSS – Decision Support System for Irrigation Scheduling
5	Marko Batić, Nikola Tomasevic and Sanja Vraneš	IoT based energy efficiency platform architecture design considerations

20:30

***YU INFO & ICIST Sports Challenge - Bowling***

Izdavač:  
*INFORMACIONO DRUŠTVO SRBIJE*

Za izdavača:  
*prof. dr Miodrag Ivković*

Odgovorni urednik:  
*mr Dušan Korunović*

Redakcija:  
*Programski odbor*

Tehnička obrada:  
*Mile Ž. Ranđelović, dipl. ing.*

Štampa:  
*"Sven", Niš*

Tiraž:  
*300 primeraka*