

## OSOBNE INFORMACIJE


**Jasmina Baraković Husić**

📍 Univerzitet u Sarajevu, Elektrotehnički fakultet, Zmaja od Bosne bb, 71000 Sarajevo

☎ +387 33 250 700 📠 +387 61 265 500

✉ [jasmina.barakovic@etf.unsa.ba](mailto:jasmina.barakovic@etf.unsa.ba)

🌐 <https://www.tk.etf.unsa.ba/bs/people/jasmina-barakovic-husic/>

💬 Skype barakovicjasmina

Pol Ženski | Datum rođenja 29/03/1981 | Državljanstvo Bosna i Hercegovina

## RADNO MJESTO

Redovni profesor na Univerzitetu u Sarajevu – Elektrotehnički fakultet

## RADNO ISKUSTVO

2022 - danas

**Redovni profesor**

Univerzitet u Sarajevu, Elektrotehnički fakultet, Zmaja od Bosne bb, 71000 Sarajevo

- Organizacija i održavanje predavanja, tutorijala, laboratorijskih vježbi i konsultacija.
- Kontinuirano usavršavanje koncepta nastave u oblasti multimedijskih sistema i usluga, mrežne signalizacije i sigurnosti, simulacija u komunikacijama
- Integracija najnovijih rezultata istraživanja i uklanjanje zastarjelog sadržaja.
- Mentorstvo istraživanja i sudjelovanje u komisijama za završne radove/ teze/ disertacije.

Djelatnost ili sektor Visoko obrazovanje

2016 - 2022

**Vanredni profesor**

Univerzitet u Sarajevu, Elektrotehnički fakultet, Zmaja od Bosne bb, 71000 Sarajevo

- Priprema i izvođenje predavanja, tutorijala i laboratorijskih vježbi.
- Kontinuirano usavršavanje koncepta nastave u oblasti multimedijskih sistema i usluga, mrežne signalizacije i sigurnosti, simulacija u komunikacijama.
- Mentorstvo istraživanja i sudjelovanje u komisijama za završne radove/ teze.

Djelatnost ili sektor Visoko obrazovanje

2016 - danas

**Specijalista**

BH Telecom d.d. Sarajevo, Izvršna direkcija za tehnologiju i razvoj servisa, Franca Lehara 7, 71000 Sarajevo

- Koordinacija aktivnosti i učešće u izradi strategija i plana tehnoloških resursa.
- Koordinacija aktivnosti i učešće u razvoju novih i gašenju neperspektivnih rješenja.
- Koordinacija aktivnosti i učešće u izradi specijalističkih analiza vezanih uz primjenu specifičnih tehnologija i tehnoloških rješenja u mrežama BH Telecoma.

Djelatnost ili sektor Telekomunikacije

2011 - 2016

**Docent**

Univerzitet u Sarajevu, Elektrotehnički fakultet, Zmaja od Bosne bb, 71000 Sarajevo

- Priprema i izvođenje nastave, tutorijala i laboratorijskih vježbi.
- Mentorstvo istraživanja i sudjelovanje u komisijama za završne radove/ teze.

Djelatnost ili sektor Visoko obrazovanje

2008 - 2016

**Stručni saradnik za IMS i Middleware**

BH Telecom d.d. Sarajevo, Direkcija BH Mobile, Franca Lehara 7, 71000 Sarajevo

- Tehnička koordinacija i praćenje projekata razvoja sistema IMS (*IP Multimedia Subsystem*) i MPS (*Mobile Positioning System*).
- Administracija i održavanje sistema IMS i MPS.
- Definiiranje, praćenje i testiranje IMS i MPS servisa.

Djelatnost ili sektor Telekomunikacije

2005 - 2008 **Stručni saradnik za paketske mreže**  
 BH Telecom d.d. Sarajevo, Direkcija BH Line, Franca Lehara 7, 71000 Sarajevo

- Instalacija, konfiguracija i testiranje mrežnih sistema.
- Administracija i održavanje mrežnih sistema.
- Rad na praćenju i otklanjanju korisničkih smetnji.

**Djelatnost ili sektor** Telekomunikacije

## OBRAZOVANJE I OSPOSOBLJAVANJE

2005-2009 **Doktor nauka iz područja tehničkih znanosti**  
 Sveučilište u Zagrebu, Fakultet elektrotehnike i računarstva, Unska 3, 10000 Zagreb, Hrvatska

- Naslov doktorske disertacije: "Prioritetan i pouzdan prijenos signalizacijskih informacija u mrežama s komutacijom paketa".

1999-2004 **Diplomirani inženjer elektrotehnike**  
 Univerzitet u Tuzli, Fakultet elektrotehnike, Franjevačka 2, 75000 Tuzla

- Naslov diplomskog rada: "Mrežne tehnologije i tokovi medija"

2008 -2015 **Pohađanje stručno-specijalističkih obuka u organizaciji**

- Ericsson Education Centre Croatia, Zagreb  
 (IMS Overview, IMS Signaling, CSCF 5.0 HSS/SLF 5.0 – Delta, IMS System 13 Delta Training, SIP/SIP-I Advanced, MTAS 13 Operation and Configuration, CSCF 13 HSS/SLF 12 Operation and Configuration, Datacom Networking, IP Networking, PGM 5.0 Opeartion & Configuration Workshop, BCS 3.0 Collaboration Operation and Maintenance, BCS 3.0 Mobility Operation and Maintenance)
- Ericsson Education Centre Sweden, Stockholm  
 (TSP 5 Overview, TSP 5 Operation and Maintenance)
- Ericsson Education Centre Ireland, Dublin  
 (MPS 9.0 Overview, MPS 9.0 System Technician, MPS 9.0 System Engineer, ENIQ Overview, ENIQ Operation, CSCF 4.0 & HSS 4.0 Operation and Configuration, MPS11.0 Overview, MPS 11.0 Operation and Maintenance, IP Works 12 Operation and Maintenance)
- Mobile Arts, Stockholm  
 (VMS 3.2 Overview, VMS 3.2 OMA)

## OSOBNJE VJEŠTINE

**Materinski jezik** Bosanski

| Ostali jezici   | RAZUMIJEVANJE |         | GOVOR               |                    | PISANJE |
|---|---------------|---------|---------------------|--------------------|---------|
|   | Slušanje      | Čitanje | Govorna interakcija | Govorna produkcija |         |
| Engleski  | C1            | C1      | C1                  | C1                 | C1      |
| Zamijenite nazivom jezične potvrde. Upišite stupanj ako je primjenjivo  |               |         |                     |                    |         |
| Njemački  | A2            | B1      | A2                  | A2                 | B1      |
| Zamijenite nazivom jezične potvrde. Upišite stupanj ako je primjenjivo. |               |         |                     |                    |         |

Stupnjevi: A1/2: Temeljni korisnik - B1/B2: Samostalni korisnik - C1/C2 Iskusni korisnik  
[Zajednički europski referentni okvir za jezike](#)

**Komunikacijske vještine** Sposobnost pregovaranja i prilagođavanja; inovativnost; odgovornost; otvorenost; iskazane prezentacijske vještine.  
 Stečeno praktičnim iskustvom u različitim uslovima i okruženjima, te učešćem na međunarodnim i domaćim projektima, radionicama i konferencijama.

Organizacijske / rukovoditeljske vještine

Samoinicijativnost; sistematičnost; proaktivan i timski pristup radu; mogućnost rada na nekoliko zadataka istovremeno; organizacijske i koordinacijske sposobnosti.

Poslovne vještine

- Izražene analitičke i istraživačke vještine.
- Savjesnost i posvećenost detaljima.

Vozačka dozvola

- B

## DODATNE INFORMACIJE

### Projekti

- [1] „Izrada kataloga kompetencija“, BH Telecom, d.d. Sarajevo, 2021 – 2022 (Član tima).
- [2] „DATAGRAM (coviD AgenT bAsed modellinG fRAMework)“, Ministarstvo za nauku, visoko obrazovanje i mlade, 2020 - 2021 (Upravljanje projektom).
- [3] EU Framework Programme, ICT COST CA19136 - International Interdisciplinary Network on Smart Healthy Age-friendly Environments. 2020 – 2024 (MC Member for Bosnia and Herzegovina).
- [4] Development of IT Tool for Corruption Risk Assessment and IT Tool for Anti-Corruption Assessment of Legislation. Regional Anti-Corruption Initiative Secretariat, 2018 – 2020 (Team Leader).
- [5] EU Framework Programme, ICT COST CA16226 - Indoor living space improvement: Smart Habitat for the Elderly, 2017 – 2021 (MC Member for Bosnia and Herzegovina).
- [6] Erasmus+ Programme, Key Action 1 – Mobility for learners and staff – Higher Education Student and Staff Mobility, 2017 – 2019 (Institutional Coordinator).
- [7] „Realizacija projekta LTE RAN– 5G Trial“, BH Telecom, d.d. Sarajevo, 2018 (Član tima).
- [8] „Inventura sigurnosnih mehanizama, platformi, aplikacija i izrada jedinstvenog plana sigurnosti TK&IT mreže“, BH Telecom, d.d. Sarajevo, 2018 – 2019 (Član tima).
- [9] „Plan upravljanja kontinuitetom poslovanja“, BH Telecom, d.d. Sarajevo, 2017 (Član tima).
- [10] „Organizovanje, vođenje i praćenje projekata troškovnog računovodstva i računovodstvenog razdvajanja u BH Telecom d.d. Sarajevo“, BH Telecom, d.d. Sarajevo, 2016 – 2022 (Član koordinacionog tima).
- [11] „Building cyber resilient societies in the region of SEE“, RACVIAC – Centre for Security Cooperation and Military Academy “General Mihailo Apostolski” – Skopje, 2016; (Team Member).
- [12] Erasmus+ Programme, Key Action 1 – Mobility for learners and staff – Higher Education Student and Staff Mobility, 2015 – 2016 (Institutional Coordinator).
- [13] „Pregled stanja i integracije TK sistema u mreži BH Telecoma“, BH Telecom, d.d. Sarajevo, 2015 (Voditelj tima).
- [14] EU Framework Programme, ICT COST Action IC1304 - Autonomous Control for Reliable Internet of Services (ACROSS), 2013 – 2017 (MC Substitute Member for Bosnia and Herzegovina).
- [15] EU Framework Programme, ICT COST Action IC 1303 - Architectures, Algorithms and Platforms for Enhanced Living Environments (AAPELE), 2013 – 2017 (MC Substitute Member for Bosnia and Herzegovina).
- [16] „Upravljanje signalizacijskim informacijama u cilju poboljšanja kvalitete usluga nove generacije, Federalno ministarstvo obrazovanja i nauke u Bosni i Hercegovini, 2013-2014 (Voditelj tima).
- [17] „Upgrade core elemenata proizvođača Ericsson (dio Upgrade MPS)“, BH Telecom, d.d. Sarajevo, 2013 (Stručno-tehnička podrška).
- [18] „Razvoj core mreže, razvoj IMS-a, novi NDC, upgrade i nove funkcionalnosti servisne mreže“, BH Telecom d.d. Sarajevo, 2011 - 2012 (Stručno-tehnička podrška).
- [19] „Unaprjeđenje kvaliteta i podizanje kapaciteta mreže BH Mobile“, BH Telecom d.d. Sarajevo, 2010 (Stručno-tehnička podrška).

- [20] „Platforma za lokacijski bazirane servise (LBS) u mobilnoj mreži BH Telecom-a”, BH Telecom d.d. Sarajevo, 2008 (Stručno-tehnička podrška).
- [21] „SDP nove funkcionalnosti i SIP arhitektura u mobilnoj mreži BH Telecom-a”, BH Telecom d.d. Sarajevo, 2008 (Stručno-tehnička podrška).
- [22] „Web-based audio/video konferencijski sistem”, BH Telecom d.d. Sarajevo, 2007 (Stručno-tehnička podrška).

#### Broj publikacija, citata, mentorstva i recenzija

- **Publikacije:** 3 univerzitetska udžbenika, 2 naučne knjige, 3 poglavlja u knjizi, 37 rada u časopisima, 46 konferencijska rada
- **Citati:** 804 (Google Scholar), 349 (Scopus), 187 (Web of Science Core Collection).
- **Mentorstva:** 29 MSc, 9 BSc.
- **Recenzije:** Časopisi: 29, Konferencije: 31, Knjige: 1

#### Recenzije (časopisi)

- IEEE Access, IEEE Press
- Journal of Communications and Networks, IEEE Press
- Healthcare Technology Letters, John Wiley & Sons Inc.
- Telecommunication Systems, Springer Netherlands
- Remote Sensing, Multidisciplinary Digital Publishing Institute (MDPI)
- Sensors, Multidisciplinary Digital Publishing Institute (MDPI)
- Electronics, Multidisciplinary Digital Publishing Institute (MDPI)
- Energies, Multidisciplinary Digital Publishing Institute (MDPI)
- Applied Science, Multidisciplinary Digital Publishing Institute (MDPI)
- Computers, Multidisciplinary Digital Publishing Institute (MDPI)
- Sustainability, Multidisciplinary Digital Publishing Institute (MDPI)
- Smart Cities, Multidisciplinary Digital Publishing Institute (MDPI)
- ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM), Association for Computing Machinery (ACM)
- Human Technology, Open Science Center, University of Jyväskylä
- International Journal on Advances in Internet Technology, Engineering and Technology Publishing, Emerald Publishing
- Online Journal of Communication and Media Technologies, Bastas Publishing
- Automatika, Korema
- BH Elektrotehnika, CIGRE
- Science, Engineering and Technology, “IMS” Vogošća & Faculty of Traffic and Communication

#### Članstvo u uređivačkim odborima i komitetima

- International Conference on Communication Theory, Reliability, and Quality of Service (CTRQ) 2011 - 2022
- Science, Engineering and Technology, “IMS” Vogošća & Faculty of Traffic and Communication

#### Organizacija konferencija

- „Organizacija prve tehnološke konferencije BH Telecoma“, BH Telecom d.d. Sarajevo, 2019.

#### Članstvo u strukovnim udruženjima

- IEEE Communication Society
- IEEE Future Networks
- IEEE Internet of Things Community
- BH-TEL udruženje
- BAKE udruženje

## Istraživački profil

- ORCID ID: 0000-0001-6119-6447
- Scopus ID: 55601474300
- Researcher ID: GMW-8569-2022

## REFERENCE

- Knjige**
- [1] Baraković, S., Baraković Husić, J., 2022. Osnove modelovanja prijetnji u oblasti informaciono-komunikacionih sistema. Dobra knjiga. ISBN: 978-9958-27-672-9.
  - [2] Baraković Husić, J., Baraković, S., Turajlić, E., 2020. Multimedija i umrežavanje. Univerzitet u Sarajevu. ISBN: 978-9958-629-84-6.
  - [3] Turajlić, E., Baraković Husić, J., Baraković, S., 2018. Kompresija slike i videa. Univerzitet u Sarajevu. ISBN: 978-9958-629-71-6.
  - [4] Baraković Husić, J., Brka, E., Hadžialić, M. and Škrbić, M., 2014. Multimedija i kodiranje. Univerzitet u Sarajevu. ISBN 978-9958-629-59-4.
  - [5] Škrbić, M., Hadžialić, M., Baraković Husić, J., Huseinović, K. and Gološ, S., 2014. Signalizacioni sistemi u mobilnim čelijskim mrežama. Bosanskohercegovačko udruženje za telekomunikacije BHTEL. ISBN 978-9958-1949-4-8.
- Poglavlja u knjizi**
- [1] Schatz, R., Schwarzmann, S., Zinner, T., Dobrijević, O., Liotou, E., Pocta, P., Baraković, S., Baraković Husić, J., Skorin-Kapov, L., 2018. QoE Management for Future Networks. Springer book on Autonomous Control for a Reliable Internet of Services: Methods, Models, Approaches, Techniques, Algorithms and Tools. Springer International Publishing. ISBN: 978-3-319-90415-3.
  - [2] Baraković, S., Baraković Husić, J., Kulovac, A., Rističević, B., 2016 . The first step in Building Cyber Resilient Societies in the Region od SEE: Bosnia and Herzegovina's Position. Research Study „Building a Cyber Resilient Society in SEE Region“. RACVIAC – Centre for Security Cooperation. ISBN: 978-953-59418-0-4.
  - [3] Baraković, S., Mrkaja, M., Husić, A., Kulovac, A., Baraković Husić, J., 2014. Area of Cyber Security in Bosnia and Herzegovina With Focus on Activities of Ministry of Security of Bosnia and Herzegovina on Establishment of the BIH CERT Body. Cyber Security and Resiliency Policy framework, 38:65-81. IOS Press. ISBN: 978-1-61499-445-9.
- Radovi u časopisima**
- [1] Baraković, S., Baraković Husić, J. 2022. Cyber Hygiene Knowledge, Awareness, and Behavioral Practices of University Students. In: Information Security Journal: A Global Perspective. DOI: <https://doi.org/10.1080/19393555.2022.2088428>.
  - [2] Skaka – Čekić, F., Baraković Husić, J., Odžak, A., Hadžialić, M., Huremović, A., Šehić, K. 2022. Dimensionality Reduction of Independent Influence Factors in the Objective Evaluation of Quality of Experience. In: Scientific Reports. DOI: <https://doi.org/10.1038/s41598-022-13803-z>.
  - [3] Baraković, S., Baraković Husić, J. 2022. The Importance of Security Matters for Quality of Experience in Mobile Web Context. In: International Journal of Human-Computer Studies. DOI: <https://doi.org/10.1080/10447318.2022.2072454>.
  - [4] Baraković Husić, J., Baraković, S., 2022. Multidimensional modelling of quality of experience for video streaming. In: Computers in Human Behavior, 129, 107155. DOI: <https://doi.org/10.1016/j.chb.2021.107155>.
  - [5] Popaja, N., Baraković, S., Baraković Husić, J., 2021. Analysis of Threats for Ambient Assisted Living (AAL) Wireless Sensor Network (WSN)-Based System. In: Bosanskohercegovačka elektrotehnika, 15. ISSN 2566-3151.
  - [6] Hodžić, E., Baraković, S., Kavazović, A., Baraković Husić, J., 2021. Use of information and communication technologies in social work institutions in extraordinary circumstances. In: Science, Engineering and Technology 1(2):8-15. DOI: <https://doi.org/10.54327/set2021/v1.i2.13>.
  - [7] Ajdinović, N., Nurkić, S., Baraković Husić, J., Baraković, S., 2021. Recognition of traffic generated by WebRTC communication. In: Science, Engineering and Technology 1(1):15-20. DOI: <https://doi.org/10.54327/set2021/v1.i1.8>.
  - [8] Jokić, A., Baraković, S., Baraković Husić, J., and Pleho, J., 2021. Partial Rule Security Information and Event Management Concept in Detection of Cyber Incidents. International Journal of Security and Networks, 16(2): 117-128. ISSN: 1747-8405, e-ISSN: 1747-8413. DOI: 10.1504/IJSN.2021.116777.
  - [9] Muharemović, E., Čaušević, S., Kosovac, A., Baraković Husić J., 2021. Cost and Performance Optimisation in the Technological Phase of Parcel Delivery – A Literature Review. Promet – Traffic & Transportation. 33(1):129-139. ISSN: 0353-5320, e-ISSN: 1848-4069. DOI: 10.7307/ptt.v33i1.3439.
  - [10] Baraković Husić, J., Baraković, S., Krejcar, O., and Maresova, P., 2021. Modelling of Quality of Experience for Web-based Unified Communications with Perceptual Dimensions. Signal, Image and Video Processing. ISSN: 1863-1703, e-ISSN: 1863-1711. DOI: 10.1007/s11760-020-01822-0.



- [11] Baraković Husić, J., Melero, F.J., Baraković, S., Lemeski, P., Zdravovski, E., Maresova, P., Krejcar, O., Chorbev, I., Garcia, N.M., and Trajkovik, V., 2020. Aging at Work: A Review of Recent Trends and Future Directions. *International Journal of Environmental Research and Public Health*, 17(20), 7659. ISSN: 1660-4601. DOI: 10.3390/ijerph17207659.
- [12] Hajrić, A., Smaka, T., Baraković, S., and Baraković Husić, J., 2020. Methods, Methodologies, and Tools for Threat Modeling with Case Study. *Telfor Journal*, 12(1): 56-61. ISSN 1821-3251. DOI: 10.5937/telfor2001056H.
- [13] Baraković Husić, J., Baraković, S. and Kasumović, S., 2020. Studying the Impact of SIP Message Differentiation on the Quality of VoIP Session Control Procedures. *IETE Technical Review*. ISSN: 0256-4602, e-ISSN: 0974-5971. DOI: 10.1080/02564602.2020.1786472.
- [14] Dervišević, T., Baraković, S., and Baraković Husić, J., 2020. Case Study: Security of System for Remote Management of Windows. *Bosanskohercegovačka elektrotehnika* 14. ISSN: 2566-316X.
- [15] Maresova, P., Prochazka, M., Baraković, S., Baraković Husić, J., and Kuca, K., 2020. A Shortage in the Number of Nurses – A Case Study from a Selected Region in the Czech Republic and International Context. *Healthcare*, 8(2), 152. ISSN: 2227-9032. DOI: 10.3390/healthcare8020152.
- [16] Baraković, S., Baraković Husić, J., van Hoof, J., Krejcar, O., Maresova, P., Akhtar, Z., and Melero, F.J., 2020. Quality of Life Framework for Personalised Ageing: A Systematic Review of ICT Solutions. *International Journal of Environmental Research and Public Health*, 17(8), 2940. eISSN: 1660-4601. DOI: 10.3390/ijerph17082940.
- [17] Baraković, S., Baraković Husić, J., Maraj, D., Maraj, A., Krejcar, O., Maresova, P., and Melero, F.J., 2020. Quality of Life, Quality of Experience, and Security Perception in Web of Things: An Overview of Research Opportunities. *Electronics*, 9(4), 700. eISSN 2079-9292. DOI: 10.3390/electronics9040700.
- [18] Kulović, J. Baraković, S., and Baraković Husić, J., 2020. Analysis of Threats for Web of Things (WoT) System. *Bosanskohercegovačka elektrotehnika*, 14. ISSN: 2566-316X.
- [19] Maresova, P., Krejcar, O., Baraković, S., Baraković Husić, J., Lemeski, P., Zdravovski, E., Chorbev, I., and Trajkovik, V., 2020. Health-Related ICT Solutions of Smart Environments for Elderly – Systematic Review. *IEEE Access*, 8 (1). ISSN: 2169-3536, e-ISSN: 2169-3536. DOI: 10.1109/ACCESS.2020.2981315.
- [20] Baraković Husić, J., Baraković, S., Cero, E., Slamnik, N., Ocuz, M., Dedović, A. and Zupcic, O., 2020. Quality of Experience for Unified Communications: A Survey. *International Journal of Network Management*, 30(3). ISSN: 1055-7148, e-ISSN: 1099-1190. DOI: 10.1002/nem.2083.
- [21] Cero Dinarević, E., Baraković Husić, J., and Baraković, S., 2019. Step by Step Towards Effective Human Activity Recognition: A Balance between Energy Consumption and Latency in Health and Wellbeing Applications. *Sensors*, 19(23), 5206. eISSN: 1424-8220. DOI: 10.3390/s19235206.
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- [23] Maresova, P., Javamardi, E., Baraković, S., Baraković Husić, J., Tomsone, S., Krejcar, O., and Kuca, K., 2019. Consequences of Chronic Diseases and Other Limitations Associated with Old Age – A Scoping Review. *BMC Public Health*, 19(1):1431. eISSN: 1471-2458. DOI: 10.1186/s12889-019-7762-5.
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- [25] Osmanović, I., Baraković Husić, J. and Baraković, S., 2018. Impact of Media-Related SIFs on QoE for H.265/HEVC Video Streaming. *Journal of Communications, Software and Systems (JCOMSS)* 14(2): 157-170. ISSN: 1845-6421, e-ISSN: 1846-6079. DOI: 10.24138/jcomss.v14i2.516.
- [26] Cero, E., Baraković Husić, J. and Baraković, S., 2017. IoT's Tiny Steps Toward 5G: Telco's Perspective. *Symmetry*. ISSN: 2073-8994. DOI: 10.3390/sym9100213.
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- [28] Trakić, N., Čolaković, A. and Baraković Husić, J., 2015. Primjena ADSL tehnologije za pružanje IPTV usluga. In: *Academic and Professional Telecommunications Technologies Journal TELEKOMUNIKACIJE*, 12(42): 21-27. ISSN 1512-8318.
- [29] Baraković, S. and Baraković Husić, J., 2015. "We Have Problems for Solutions": The State of Cyber Security in Bosnia and Herzegovina. *Information & Security: An International Journal* 32(2): 131-154, ISSN: 0861-5160, e-ISSN: 1314-2119, DOI: 10.11610/isij.3205.
- [30] Baraković, S., Jevtić, D. and Baraković Husić, J., 2012. Modelling of Session Initiation Protocol INVITE Transaction Using Colored Petri Nets. *International Journal of Computer, Electrical, Automation, Control and Information Engineering*, 6(1).
- [31] Baraković Husić, J., Bajrić, H. and Baraković, S., 2012. Evolution of Signalling Information Transmission. *ISRN Communications and Networking*. Available at: <http://www.hindawi.com/journals/>

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