Univerzitet u Beogradu
Elektrotehnički fakultet

NASTAVNO-NAUČNOM VEĆU

Izveštaj o aktivnostima redovnog profesora dr Milana Prokina od 2014. do 2018. godine

Objašnjenje kategorije	Kategorija	Broj
Rad u istaknutom međunarodnom časopisu	M22	3
Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31	3
Saopštenje sa međunarodnog skupa štampano u celini	M33	15
Rad u istaknutom nacionalnom časopisu	M52	2
Saopštenje sa skupa nacionalnog značaja štampano u celini	M63	3
Novi proizvod uveden u proizvodnju na međunarodnom nivou	M81	1
Citiranost radova i patenata (bez autocitata)		258
Projekti na nacionalnom nivou		5
Doktorske disertacije (mentor)		2
Doktorske disertacije (komisija)		6
Magistarske teze (mentor)		1
Nastavni predmeti		5

Rad u istaknutom međunarodnom časopisu	M22

2.2.1 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Efficient one-dimensional forward and inverse discrete wavelet transformers," *Microprocessors and Microsystems*, vol. 63, pp. 28-35, 29 Nov. 2018. DOI: https://doi.org/10.1016/ j.micpro. 2018.08.006 (IF=1.049)

2.2.2 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "High-performance 1-D and 2-D inverse DWT 5/3 filter architectures for efficient hardware implementation," *Circuits, Systems & Signal Processing*, vol. 36, no. 9, pp. 3674-3701, Sep. 2017, DOI: https://doi.org/10.1007/s00034-016-0477-2 (IF=1.998)

2.2.3 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Novel one-dimensional and two-dimensional forward discrete wavelet transform 5/3 filter architectures for efficient hardware implementation," *Journal of Real-Time Image Processing*, pp. 1-20, 29 Nov. 2016. DOI: 10.1007/s11554-016-0656-1 (IF=2.010)

Predavanje po pozivu sa međunarodnog skupa štampano u celini	M31

3.1.1 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Efficient hardware realization of digital image decoder," *Proceedings of 25th Telecommunication Forum (TELFOR)*, 21-22 Nov. 2017, Belgrade, Serbia, pp. 534-541.

3.1.2 Milan Čabarkapa, **Milan Prokin**, Goran Šimić, Nataša Nešković, Đurad Budimir, "Internet of insecure things," *Proceedings of "Archibald Reiss Days,"* 7-9 Nov. 2017, Belgrade, Serbia, vol. III, pp. 101-109.

3.1.3 Vladimir Rajović, Goran Savić, **Milan Prokin**, "Hardware realization of fast image encoder with minimum memory size," *Proceedings of 22nd Telecommunication Forum (TELFOR)*, 25-27 Nov. 2014, Belgrade, Serbia, pp. 717-724.

Saopštenje sa međunarodnog skupa štampano u celini	M33

3.3.1 **Milan Prokin**, Dragana Prokin, Aleksandar Nešković, Nataša Nešković, "Cybersecurity of improved fiscal devices," *Proceedings of 7th Mediterranean Conference on Embedded Computing (MECO)*, 10-14 June 2018, Budva, Montenegro, pp. 175-178.

3.3.2 **Milan Prokin**, Dragana Prokin, Aleksandar Nešković, Nataša Nešković, "Cybersecurity of fiscal devices with GPRS terminals," *Proceedings of 7th Mediterranean Conference on Embedded Computing (MECO)*, 10-14 June 2018, Budva, Montenegro, pp. 171-174.

3.3.3 Haris Turkmanović, David Vukoje, Aleksandra Lekić, **Milan Prokin**, "Using assembly language for creating games," *Proceedings of 5th International Conference on Electrical, Electronic and Computing Engineering (IcETRAN)*, 11-14 June 2018, Palić, Serbia, pp. ELI1.6.1-4.

3.3.4 Mioljub Jovanović, Milan Čabarkapa, Benoit Claise, Nataša Nešković, **Milan Prokin**, Đurad Budimir, "Model driven telemetry using Yang for next generation network applications," *Proceedings of 5th International Conference on Electrical, Electronic and Computing Engineering (IcETRAN)*, 11-14 June 2018, Palić, Serbia, pp. TEI1.4.1-4.

3.3.5 **Milan Prokin**, "Lithium purification for the prevention of buildup of lithium dendrites," *E-mobility Forum*, 6. Oct. 2017, Belgrade, Serbia, http://sajam.rs/en/e-mobility-forum/

3.3.6 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Efficient inverse discrete wavelet transformer," *Proceedings of 6th Mediterranean Conference on Embedded Computing (MECO)*, 11-15 June 2017, Bar, Montenegro, pp. 167-170.

3.3.7 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Efficient forward discrete wavelet transformer," *Proceedings of 6th Mediterranean Conference on Embedded Computing (MECO)*, 11-15 June 2017, Bar, Montenegro, pp. 163-166.

3.3.8 Milan Čabarkapa, Nataša Nešković, **Milan Prokin**, Aleksandar Nešković, Đurad Budimir, "Crosstalk Suppression in MIMO Wireless Transmitters for 4G Networks," *Proceedings of 4th International Conference on Electrical, Electronic and Computing Engineering (IcETRAN)*, 5-8 June 2017, Kladovo, Serbia, pp. MTI1.4.1-5.

3.3.9 Tijana Bovan, Milan Čabarkapa, Nataša Nešković, **Milan Prokin**, Đurad Budimir, "Analiza neželjenih efekata u MIMO predajnicima sa više antena," *Proceedings of XVI INFOTEH-JAHORINA*, 22-24 Mar. 2017, Jahorina, Bosnia and Herzegovina, vol. 16, pp. 165-168.

3.3.10 **Milan Prokin**, Dragana Prokin, "Improved fiscal devices with additional services," *Proceedings of 5th Mediterranean Conference on Embedded Computing (MECO)*, 12-16 June 2016, Bar, Montenegro, pp. 277-280.

3.3.11 **Milan Prokin**, Dragana Prokin, "Improved fiscal devices without additional services," *Proceedings of 5th Mediterranean Conference on Embedded Computing (MECO)*, 12-16 June 2016, Bar, Montenegro, pp. 273-277.

3.3.12 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Hardware realization of inverse subband transformer with minimum used resources," *Proceedings of 4th Mediterranean Conference on Embedded Computing MECO 2015*, Budva, Montenegro, 14-18 June 2015, pp. 224-227.

3.3.13 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Hardware realization of direct subband transformer with minimum used resources," *Proceedings of 4th Mediterranean Conference on Embedded Computing MECO 2015*, Budva, Montenegro, 14-18 June 2015, pp. 220-223.

3.3.14 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Inverzno filtriranje i kompozicija slike sa minimalnim korišćenim resursima," *Proceedings of 22nd Telecommunications Forum (TELFOR)*, Belgrade, Serbia, 25-27 Nov. 2014, pp. 729-732.

3.3.15 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Direktno filtriranje i dekompozicija slike sa minimalnim korišćenim resursima," *Proceedings of 22nd Telecommunications Forum (TELFOR)*, Belgrade, Serbia, 25-27 Nov. 2014, pp. 725-728.

Rad u istaknutom nacionalnom časopisu	M52

5.2.1 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Optimal hardware realization of direct subband transformer," *Technics, special edition*, Dec. 2015, pp. 83-89.

5.2.2 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Optimalna hardverska realizacija direktnog podopsežnog transformatora," *Tehnika*, vol. 64, no. 5, 2015, pp. 815-821.

Saopštenje sa skupa nacionalnog značaja štampano u celini	M63

6.3.1 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Efikasna hardverska implementacija dvodimenzionalne inverzne DWT korišćenjem 5/3 filtara," *Proceedings of 61st Electronics, Telecommunication, Computing, Control and Nuclear Technology Conference (ETRAN)*, 5-8. juna 2017, Kladovo, Serbia, pp. EL1.4.1-6.

6.3.2 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Efikasna hardverska implementacija dvodimenzionalne direktne DWT korišćenjem 5/3 filtara," *Proceedings of 61st Electronics, Telecommunication, Computing, Control and Nuclear Technology Conference (ETRAN)*, 5-8. juna 2017, Kladovo, Serbia, pp. EL1.3.1-6.

6.3.3 Milan Čabarkapa, Nataša Nešković, **Milan Prokin**, Đ. Budimir, "Modelovanje ponašanja pojačavača snage i digitalna predistorzija za 4G bežične komunikacijske sisteme," *Proceedings of 60th Electronics, Telecommunication, Computing, Control and Nuclear Technology Conference (ETRAN)*, 13-16 June 2016, Zlatibor, Serbia, pp. MT1.1.1-4.

Novo tehničko rešenje primenjeno na međunarodnom nivou	M81

8.1.1 **Milan Prokin**, Dragana Prokin, "XIPB IPB-Frame Decoder software," za *Northrop Grumman Systems Corp – Information Systems*, USA, preko CIFF BE od CIFF TC, 2014.

Projekti na nacionalnom nivou

10.1 "Hardverska, softverska, telekomunikaciona i energetska optimizacija IPTV sistema," Projekat TR32039, *Ministarstvo prosvete, nauke i tehnološkog razvoja*, Beograd, 2011–2018, **rukovodilac**.

10.2 "Razvoj hardverske, softverske i telekomunikacione infrastrukture e–sistema za kontrolu prometa i poreza," Projekat TR32047, *Ministarstvo prosvete, nauke i tehnološkog razvoja*, Beograd, 2011–2018, **učesnik**.

10.3 "Ispitivanje funkcionalnih karakteristika softverskih aplikacije za zadavanje komandi fiskalnoj kasi," *Direkcija za mere i dragocene metale*, Beograd, 2005→, **rukovodilac**.

10.4 "Ispitivanje tehničkih i funkcionalnih karakteristika daljinskih terminala za očitavanje fiskalnih kasa," *Direkcija za mere i dragocene metale, Vojno-Tehnički Institut, Tehnički Opitni Centar KoV*, Beograd, 2005→, **rukovodilac**.

10.5 "Ispitivanje tehničkih i funkcionalnih karakteristika fiskalnih kasa," *Direkcija za mere i dragocene metale, Vojno-Tehnički Institut, Tehnički Opitni Centar KoV*, Beograd, 2003→, **rukovodilac**.

Nastava

11.1 Primena mikroračunara, 13D041PMR, DS2PMR

11.2 Računarska elektronika 13E043RE, OE3RE, MS1RE

11.3 Osnovi analogne elektronike, 13E042OAE, 13E042OAEF, OE2OAE, OE3OAE

11.4 Osnovi elektronike, 13E042OEL, 13E042OEF, OT2OE, OS2OE, OF2OE

11.5 Laboratorijske vežbe iz elektronike 1, 13E043LVE1

Društvena aktivnost

12.1 Član Radne grupe za izradu radne verzije nacrta Zakona o fiskalnim kasama, 2017→

12.2 Član Radne grupe za unapređenje fiskalizacije, 2015-2017

12.3 Član Komisije Zavoda / Direkcije za mere i dragocene metale Srbije za sprovođenje Zakona o fiskalnim kasama, 2003→

U Beogradu, 1.10.2018. godine.   Dr Milan Prokin, redovni profesor