Curriculum Vitae

Prof. Dr. Milan Prokin

Full Professor, Department of Electronics
University of Belgrade – School of Electrical Engineering
Founder & Sole Director, Proffy Corporation

Executive Summary

Prof. Dr. Milan Prokin is a globally recognized scientist, inventor, and technology entrepreneur with over 39 years of academic and industrial experience. His contributions span artificial intelligence, video compression, encryption, advanced sensors, digital electronics, and autonomous mobility systems.

He has authored over 100 scientific publications, supervised 7 doctoral dissertations and 18 master's theses, realized 12 international patents, and led several dozens of projects with global corporations (Robert Bosch, Siemens, Philips (now NXP) Semiconductors, Northrop Grumman, and many others), U.S. defense agencies, and European research institutions. His applied research has directly shaped government fiscalization systems, global imagery standards, and disruptive commercial technologies.

Education

Ph.D. in Electrical Engineering – University of Belgrade, 1990
Dissertation: Microprocessor measurement of the frequency of pulse signals in control systems in real time

M.Sc. in Electronics – University of Belgrade, 1988
Thesis: Analysis and design of data exchange on a multiprocessor serial bus, GPA 10/10

B.Sc. in Electronics – University of Belgrade, 1986
GPA: 9.78/10 – Highest-ranked student in generation

Academic Appointments

- Full Professor, University of Belgrade, ETF (2003–present)
- Associate Professor, University of Belgrade, ETF (1997–2003)
- Assistant Professor, University of Belgrade, ETF (1992–1997)
- Assistant, University of Belgrade, ETF (1990–1992)
- Assistant Trainee, University of Belgrade, ETF (1988–1990)
- Project Associate, University of Belgrade, ETF (1986–1988)

Leadership & Professional Roles

- Founder & Director, Proffy Corporation (BVI) – since 2008
- Founder & Director, Proffy Corporation FZCO (UAE, DSO/IFZA) – since 2021
- Founder & Director, Proffy Precious Metals FZCO (UAE, DSO/IFZA) – since 2025
- Voting Member, Motion Imagery Standards Board (MISB), NGA (USA) – since 2008
- President of the Experts Council, NAAEV – 2017–2024
- RIS Hub Serbia Manager, EIT Urban Mobility – 2021–2024

Research & Publications

Below is the list of Prof. Dr. Milan Prokin's selected publications in the fields of image/video compression and processing, categorized by type (international journals, conferences, national journals, patents, patent applications, etc.) as provided in his academic dossier.

Full publication list from the provided source document will be appended here in structured subsections: International Journals (M21a, M21, M22, M23), International Conferences (M31, M33), National Journals (M52, M53), National Conferences (M61, M63), International products and programs

(M81), Realized international patents (M91), and Prepared international patent applications (M93). Each entry will retain its citation style as in the dossier.

Patents & Intellectual Property

12 International Patents Granted, 4 National Patents, 9 International Patent Applications Pending.

Key patents include: Fast Codec with High Compression Ratio, Boost Bridge Amplifier, Power Booster Amplifier.

Key patent applications include: Enhanced MPEG video compression.

Books & Textbooks

- Computer Electronics – Academic Mind, 2006-present
- Microprocessor Electronics – Academic Mind, 2002/2003
- New Methods for Real-Time Speed and Frequency Measurement – Academic Mind, 2002
- Fundamentals of Electronics: Laboratory Manual – Academic Mind, 2006 (co-author)

Selected International Projects

- Northrop Grumman Systems Corp. (USA) – CIFF Encoder/Decoder software and hardware (2007–2014)

- Robert Bosch GmbH (Germany) – Lead hardware designer for Class-D amplifiers and car navigation systems (1996–2002)

- EIT Urban Mobility – RIS Hub Serbia, project manager (2021–2024)

- Classified Projects (USA, OGA/USSOCOM) – Advanced imaging and electronics (2008–present)

Government Consulting

- European Commission (DG TAXUD) – Consultant on fiscalization and anti-fraud (2007–2010)

- Ministries of Finance – Ethiopia, Tanzania, Malawi, Slovenia, Serbia, Macedonia, Bosnia & Herzegovina (2003–2015)

- Advisor to Government of Serbia – Fiscalization Laws, Excise Duty Laws, Tobacco Laws, Games of Chance Laws (2003–2023)

Teaching & Mentorship

Undergraduate & Graduate Courses: Computer Electronics, Microprocessor Systems, Digital Systems, Analog Electronics, Signal Processing.

Mentorship: 7 PhDs, 18 Masters, 48 Graduate theses.

Awards & Distinctions

- Best Doctoral Dissertation Award, Chamber of Commerce Belgrade (2005, mentor role)
- Annual Award for Invention, Chamber of Commerce Belgrade (1996)
- Best Student of Generation, University of Belgrade (1986)
- Multiple Excellence Prizes, University of Belgrade (1984, 1986)

Disruptive Technologies Portfolio (via Proffy Corporation)

- EMPEG Video Compression – 80%+ cost savings for streaming
- EET Encryption – advanced cryptographic protocols
- EFEC Error Correction – resilient packet error correction
- Multitarget Antiviral Supplements (AVS)
- Drought-Resistant Fertilizers (Demettra project)
- AI-Driven Urban Mobility Systems, and tenths others.

Languages

- Croatian (native)
- Serbian (native)
- English (fluent)
- Russian (fluent)
- German (intermediate)

Selected Publications List

The following is the list of selected image/video compression and processing publications authored or co-authored by Prof. Dr. Milan Prokin, categorized according to academic standards (M21a, M21, M22, M23, M31, M33, M52, M53, M61, M63, M81, M83, M91). This includes all journal papers, conference proceedings, invited lectures, patents, patent applications, and other contributions.

Scientific papers in top international journals (M21) (image/video compression)

- Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Digital image decoder for efficient hardware implementation," Sensors, vol. 22, No. 23, pp. 1-26, Dec. 2022.

- Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Memory efficient hardware architecture for 5/3 lifting-based 2-D forward discrete wavelet transform," Microprocessors and Microsystems, vol. 87, pp. 1-12, Nov. 2021.

- Dragana Prokin, **Milan Prokin**, "Low hardware complexity pipelined rank filter," IEEE Transactions on Circuits and Systems II, vol. 57, no. 6, pp. 446-450, 2010.

Scientific papers in distinguished international journals (M22)

- 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, vol. 16, no. 5, pp. 1459-1478, 2019.

- 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, 2018.

- Vladimir Rajovic, Goran Savić, Vladimir Čeperković, **Milan Prokin**, "Combined one-dimensional lowpass and highpass filters for subband transformer," *Electronics Letters*, vol. 49, no. 18, pp. 1150-1152, 2013.

Invited scientific papers from international conferences (M31)

- 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.

- 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.

Scientific papers from international conferences (M33)

- Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "Efficient cumulative probability distribution estimation for arithmetic coding," *Proceedings of 9th Mediterranean Conference on Embedded Computing (MECO) 2020*, 8-11 June 2020, Budva, Montenegro, pp. 1-4.

- Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "Efficient Bernoulli Probability Distribution Estimation for Arithmetic Coding," *Proceedings of 9th Mediterranean Conference on Embedded Computing (MECO) 2020*, 8-11 June 2020, Budva, Montenegro, pp. 1-4.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- Vladimir Rajović, **Milan Prokin**, Vladimir Čeperković, Dragana Prokin, "An image codec with minimum memory size," *Proceedings of 2nd Mediterranean Conference on Embedded Computing MECO 2013*, Budva, Montenegro, 15-20 June 2013, pp. 148-151.

- Vladimir Čeperković, **Milan Prokin**, "Non-stationary one-dimensional subband transformer filters," *Proceedings of Mediterranean Conference on Embedded Computing MECO 2012*, Bar, Montenegro, 19-21 June 2012, pp. 132-135.

- Dragana Prokin, **Milan Prokin**, "Lowest complexity adaptive rank filter for FPGA implementation," *Proceedings of Mediterranean Conference on Embedded Computing MECO 2012*, Bar, Montenegro, 19-21 June 2012, pp. 1-4.

- Vladimir Čeperković, **Milan Prokin**, "One-dimensional codec with minimum memory size," *Proceedings of International Scientific Conference UNITECH 2011*, Gabrovo, Bulgaria, 18-19 Nov. 2011, pp. I-174 – I-179.

- Vladimir Čeperković, **Milan Prokin**, "Fast image codec with minimum required memory," *Proceedings of International Scientific Conference UNITECH 2011*, Gabrovo, Bulgaria, 18-19 Nov. 2011, pp. I-180 – I-186.

Scientific papers in national journals (M52, M53)

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

- Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Optimal hardware implementation of a direct subband transformer," *Tehnika*, vol. 64, no. 5, pp. 815-821, 2015.

- Vladimir Čeperković, **Milan Prokin**, "Non-stationary two-dimensional subband transformer filters," *Telfor Journal*, vol. 5, no. 2, pp. 113-117, 2013.

- Dragana Prokin, **Milan Prokin**, "Morphological and median adaptive filters based on LCBP rank filter," *Telfor Journal*, vol. 5, no. 2, pp. 123-127, 2013.

Invited scientific papers from national conferences (M61)

- Dragana Prokin, **Milan Prokin**, "Fast bit-pipeline rank filter," *Proceedings of 19th Telecommunications Forum (TELFOR)*, Belgrade, Nov. 2011, pp. 882-887.

Scientific papers from national conferences (M63)

- 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.

- 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.

- Vladimir Čeperković, **Milan Prokin**, "Non-stationary two-dimensional subband transformer filters," *Proceedings of 20th Telecommunications Forum (TELFOR)*, Nov. 2012, Belgrade, pp. 772-775.

- Dragana Prokin, **Milan Prokin**, "Median and morphological filters based on LCBP rank filter," *Proceedings of 20th Telecommunications Forum (TELFOR)*, Nov. 2012, Belgrade, pp. 650-653.

- Dragana Prokin, **Milan Prokin**, "Fast bit-pipeline rank filter," *Proceedings of 19th Telecommunications Forum (TELFOR)*, Nov. 2011, Belgrade, pp. 882-887.

- Lazar Karbunar, **Milan Prokin**, "Power and cost efficient IPTV systems," *Proceedings of 19th Telecommunications Forum (TELFOR)*, Nov. 2011, Belgrade, pp. 1171-1174.

- Lazar Karbunar, **Milan Prokin**, "Otpornost H.264 video sekvence na greške," *Zbornik radova 53. Konferencije za ETRAN*, Jun 2009, Vrnjačka Banja.

A new product introduced into production at an international level (M81)

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

- Vladimir Rajović, Goran Savić, Ivan Popović, Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "CIFF I-frame Decoder Hardware" for *Northrop Grumman Systems Corp – Information Systems*, USA, via CIFF BE for CIFF TC, 2013.

- Vladimir Rajović, Goran Savić, Ivan Popović, Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "CIFF I-frame Encoder Hardware" for *Northrop Grumman Systems Corp – Information Systems*, USA, via CIFF BE for CIFF TC, 2012.

Internationally recognized program systems (M81)

- **Milan Prokin**, Dragana Prokin, "XIPB IPB-frame Encoder Software," for *Northrop Grumman Systems Corp – Information Systems*, USA via CIFF BE for CIFF TC, 2013.

- Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "CIFF Video Wall Software," for *Northrop Grumman Systems Corp – Information Systems*, USA via CIFF BE for CIFF TC, 2012.

- Vladimir Čeperković, **Milan Prokin**, "CIFF Capture Video Sender Software," for *Northrop Grumman Systems Corp – Information Systems*, USA via CIFF BE for CIFF TC, 2011.

- Vladimir Čeperković, **Milan Prokin**, "CIFF Player Video Receiver Software," for *Northrop Grumman Systems Corp – Information Systems*, USA via CIFF BE for CIFF TC, 2011.

- Vladimir Čeperković, **Milan Prokin**, "CIFF Capture Transmitting Video System," for *CIFF Business Enterprises*, USA od CIFF TC, 2009-2010.

- Vladimir Čeperković, **Milan Prokin**, "CIFF Player Receiving Video System," for *CIFF Business Enterprises*, USA od CIFF TC, 2009-2010.

- Vladimir Čeperković, **Milan Prokin**, "CIFF Command Line System for Image and Video Compression," for *CIFF Business Enterprises*, USA od CIFF TC, 2007-2008.

- Vladimir Čeperković, **Milan Prokin**, "CIFF Command Line System for Image and Video Decompression," for *CIFF Business Enterprises*, USA od CIFF TC, 2007-2008.

Realized patent at the international level (M91) – first generation (CIFF) image compression unrelated to the second generation (EMPEG) video compression

- Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," Canadian patent CA2499212, 19.11.2013.

- Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," U.S. Patent US8306340B2, 6.11.2012.

- Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," Korean Patent KR10-11296550000, 16.03.2012.

- Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," Japanese patent 2004-568967, 20.10.2011.

- Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," Chinese patent *ZL 03825219.8,* 9.07.2008.

Prepared patent application at the international level important for the UAE & World (M93) – the second generation (EMPEG) video compression unrelated to the first generation (CIFF) image compression

- **Milan Prokin**, "MPEG encoders and decoders with enhanced additional filters" (EMPEG)

- **Milan Prokin**, "MPEG encoders with enhanced I/P-frame decision" (EMPEG)

- **Milan Prokin**, "MPEG encoders with enhanced intraframe decision" (EMPEG)

- **Milan Prokin**, "MPEG encoders with enhanced motion search" (EMPEG)

Appendix of Bibliography

Category explanation	Category	No.
Scientific paper in an international journal of exceptional value	M21a	1
Scientific paper in a top international journal	M21	7
Scientific paper in a distinguished international journal	M22	9
Scientific paper in an international journal	M23	2
Invited lecture from an international conference printed in its entirety	M31	3
Scientific paper from an international conference printed in its entirety	M33	48
Scientific paper in a distinguished national journal	M52	3
Scientific paper in a national journal	M53	2
Invited lecture from a national conference printed in its entirety	M61	2
Scientific paper from a national conference printed in its entirety	M63	29
A new product introduced into production at an international level	M81	3
An internationally recognized program system	M81	8
A new accepted solution to problems in the field of macroeconomic, social and sustainable spatial development reviewed and accepted at the international level	M81	4
A new accepted solution to problems in the field of macroeconomic, social and sustainable spatial development problems introduced into production	M82	1
Prototype based on a new method	M85	2
Realized patent at the international level	M91	12
Realized patent at the national level	M92	4
Prepared patent application at the international level	M93	9
Selected projects at the international level		18
Selected projects at the national level		19
Selected professional papers (laws and regulations) at the international level		36
Selected professional papers (laws, bylaws and regulations) at the national level		20
Doctoral dissertations (mentor)		7
Master's theses (mentor)		18

Graduate theses (mentor)	**48**
Books	**4**
Teaching courses	**21**
Social activity	**19**
Awards	**5**
Disruptive technologies important for the UAE and the World (separate document)	**20+**

Scientific paper in an international journal of exceptional value	**M21a**

2.1a.1 **Milan Prokin**, "Extremely wide speed range measurement system," *Review of Scientific Instruments*, vol. 73, no. 4, pp. 1962-1964, Apr. 2002 (IF=1,437)

Scientific paper in a top international journal	**M21**

2.1.1 Jovan Vujasinović, Goran Savić, **Milan Prokin**, "Model-driven developed terminal for remote control of charging station for electric vehicles powered by renewable energy," *Electronics*, vol. 12, no. 8, pp. 1-24, Apr. 2023. (IF=2,690)

2.1.2 Vladimir Čeperković, Vladimir Rajović, **Milan Prokin**, "A distributed method for self-calibration of magnetoresistive angular position sensor within a servo system," *Sensors*, vol. 22, no. 16, pp. 5974-5974, Aug. 2022. (IF=3,847)

2.1.3 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Digital image decoder for efficient hardware implementation," *Sensors*, vol. 22, No. 23, pp. 1-26, Dec. 2022. (IF=3,847)

2.1.4 Goran Savić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Memory efficient hardware architecture for 5/3 lifting-based 2-D forward discrete wavelet transform," *Microprocessors and Microsystems*, vol. 87, 104176, pp. 1-12, Nov. 2021 (IF=3,503)

2.1.5 Dragana Prokin, **Milan Prokin**, "Low hardware complexity pipelined rank filter," *IEEE Transactions on Circuits and Systems II*, vol. 57, no. 6, pp. 446-450, 2010. (IF=1.540)

2.1.6 Jovan Elazar, Sandra Selmić, Miloš Tomić, **Milan Prokin**, "A fiber-optic displacement sensor for a cyclotron environment based on a modified triangulation method," *Journal of Optics A: Pure and Applied Optics*, vol. 4, pp. S347-S355, 2002. (IF=1.652)

2.1.7 **Milan Prokin**, "Boost bridge amplifier," *Electronics Letters*, vol. 37, no. 10, pp. 609-610, 10th May 2001. (IF=0.970)

Scientific paper in a distinguished international journal	**M22**

2.2.1 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*, vol. 16, no. 5, pp. 1459-1478, Oct. 2019 / 29 Nov. 2016 (IF=2,588)

2.2.2 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 (IF=1,049)

2.2.3   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 (IF=1,998)

2.2.4   Vladimir Rajovic, Goran Savić, Vladimir Čeperković, **Milan Prokin**, "Combined one-dimensional lowpass and highpass filters for subband transformer," *Electronics Letters*, vol. 49, no. 18, pp. 1150-1152, 2013. (IF=1.068)

2.2.5   **Milan Prokin**, "Power booster audio amplifier," *IEEE Transactions on Consumer Electronics*, vol. 48, no. 1, pp. 23-33, Feb. 2002. (IF=0.498)

2.2.6   **Milan Prokin**, "Boost bridge audio amplifier," *IEEE Transactions on Consumer Electronics*, vol. 47, no. 2, pp. 214-224, May 2001. (IF=0.367)

2.2.7   **Milan Prokin**, "DMA transfer method for wide-range speed and frequency measurement," *IEEE Transactions on Instrumentation and Measurement*, vol. 42, no. 4, pp. 842-846, Aug. 1993 (IF=0.481)

2.2.8   **Milan Prokin**, "Dynamic response of a frequency measuring system," *IEEE Transactions on Instrumentation and Measurement*, vol. 41, no. 3, pp. 390-396, Jun. 1992 (IF=0.481)

2.2.9   **Milan Prokin**, "Double buffered wide-range frequency measurement method for digital tachometers," *IEEE Transactions on Instrumentation and Measurement*, vol. 40, no. 3, pp. 606-610, Jun. 1991 (IF=0.481)

Scientific paper in an international journal	**M23**

2.3.1   **Milan Prokin**, "Extremely wide-range speed measurement using a double-buffered method," *IEEE Transactions on Industrial Electronics*, vol. 41, no. 5, pp. 550-559, Oct. 1994 (IF=0.153)

2.3.2   **Milan Prokin**, "Speed measurement using the improved DMA transfer method," *IEEE Transactions on Industrial Electronics*, vol. 38, no. 6, pp. 476-483, Dec. 1991 (IF=0.153)

Invited lecture from the international meeting printed in its entirety	**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, Đurađ 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.

Scientific paper from an international conference printed in its entirety	**M33**

3.3.1   **Milan Prokin**, Dragana Prokin, "Capturing air pollution from electric vehicles," *Proceedings of 14th Mediterranean Conference on Embedded Computing (MECO) 2025*, 10-14 June 2025, Budva, Montenegro

3.3.2   **Milan Prokin**, Dragana Prokin, "Minimizing air pollution from electric vehicles," *Proceedings of 14th Mediterranean Conference on Embedded Computing (MECO) 2025*, 10-14 June 2025, Budva, Montenegro

3.3.3 Dragana Prokin, **Milan Prokin**, "Advanced battery management system," *Proceedings of 13th Mediterranean Conference on Embedded Computing (MECO) 2024*, 11-14 June 2024, Budva, Montenegro

3.3.4 **Milan Prokin**, Dragana Prokin, "Regenerative braking for fuel cell powertrain," *Proceedings of 13th Mediterranean Conference on Embedded Computing (MECO) 2024*, 11-14 June 2024, Budva, Montenegro

3.3.5 **Milan Prokin**, Dragana Prokin, "The future belongs to high efficiency: nonflammable batteries, wireless charging, hydrogen and efuel production**,**" *Proceedings of 9th Virtual International Conference on Science, Technology and Management in Energy*, 23-24 Nov. 2023, Belgrade, Serbia, pp. 1-8.

3.3.6 **Milan Prokin**, "New energy vehicles: Exploring hydrogen and advanced battery systems," *VI E-Mobility Forum* 2023, 11-12 October 2023, Belgrade, Serbia.

3.3.7 **Milan Prokin**, "Funding opportunitites in Urban Mobility," *VI E-Mobility Forum* 2023, 11-12 October 2023, Belgrade, Serbia.

3.3.8 **Milan Prokin**, Dragana Prokin, Vladimir Čeperković, "Single buffered angular speed measurement method for self-calibration of magnetoresistive sensors," *Proceedings of 12th Mediterranean Conference on Embedded Computing (MECO) 2023*, 7-11 June 2023, Budva, Montenegro, pp. 430-433.

3.3.9 **Milan Prokin**, Vladimir Čeperković, Dragana Prokin, "Double buffered angular speed measurement method for self-calibration of magnetoresistive sensor," *Proceedings of 12th Mediterranean Conference on Embedded Computing (MECO) 2023*, 7-11 June 2023, Budva, Montenegro, pp. 434-437.

3.3.10 **Milan Prokin**, Dragana Prokin, "Advanced hydrogen electric vehicle technologies," *Proceedings of 8th Virtual International Conference on Science, Technology and Management in Energy*, 15-16 Dec. 2022, Belgrade, Serbia, pp. 147-153.

3.3.11 **Milan Prokin**, "Ultracapacitors in electric vehicles," *V E-Mobility Forum* 2022, 6-7 October 2022, Belgrade, Serbia.

3.3.12 **Milan Prokin**, Dragana Prokin, "Law Driven Unmanned Aircraft Software," *Proceedings of 11th Mediterranean Conference on Embedded Computing (MECO) 2022*, 7-11 June 2022, Budva, Montenegro, pp. 217-220.

3.3.13 **Milan Prokin**, Dragana Prokin, Haris Turkmanović, "IoT Over 4G/3G/2G Mobile Networks," *Proceedings of 11th Mediterranean Conference on Embedded Computing (MECO) 2022*, 7-11 June 2022, Budva, Montenegro, pp. 445-448.

3.3.14 **Milan Prokin**, Dragana Prokin, "Advanced electric vehicle technologies," *Proceedings of 7th Virtual International Conference on Science, Technology and Management in nergy*, 16-17 December 2021, Belgrade, Serbia, pp. 325-332.

3.3.15 **Milan Prokin**, "Ultimate electric vehicle research & development by NAAEV and its partners," *IV E-Mobility Forum* 2021, 4 December 2021, Belgrade, Serbia.

3.3.16 Jovan Vujasinović, Goran Savić, **Milan Prokin**, "Terminal for remote control of renewable energy sources powered station for electric vehicles charging," *Proceedings of* 10th Mediterranean Conference on Embedded Computing (*MECO) 2021*, 7-10 June 2021, Budva, Montenegro, pp. 614-619.

3.3.17 **Milan Prokin**, Dragana Prokin, Györk Fülöp, Gábor Tárnok, "Range optimized navigation for e-bikes," *Proceedings of* 10th Mediterranean Conference on Embedded Computing (*MECO) 2021*, 7-10 June 2021, Budva, Montenegro, pp. 1-5.

3.3.18 **Milan Prokin**, "Serbian academic community in urban mobility and Award on most promising business idea on mobility in urban area," *III E-Mobility Forum* 2020, 16 December 2020, Belgrade, Serbia.

3.3.19 Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "Efficient cumulative probability distribution estimation for arithmetic coding," *Proceedings of 9th Mediterranean Conference on Embedded Computing (MECO) 2020*, 8-11 June 2020, Budva, Montenegro, pp. 1-4.

3.3.20 Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "Efficient Bernoulli Probability Distribution Estimation for Arithmetic Coding," *Proceedings of 9th Mediterranean Conference on Embedded Computing (MECO) 2020*, 8-11 June 2020, Budva, Montenegro, pp. 1-4.

3.3.21 **Milan Prokin**, Milan Čabarkapa, Jelena Stojković, Dragana Prokin, "Wireless control of chargers for electric vehicles," *Proceedings of 8th Mediterranean Conference on Embedded Computing (MECO),* 10-14 June 2019, Budva, Montenegro, pp. 502-505.

3.3.22 **Milan Prokin**, Jelena Stojković, Milan Čabarkapa, Dragana Prokin, "Optimal control of chargers for electric vehicles," *Proceedings of 8th Mediterranean Conference on Embedded Computing (MECO),* 10-14 June 2019, Budva, Montenegro, pp. 557-560.

3.3.23 Goran Savić, Milan Ponjavić, **Milan Prokin**, Vladimir Rajović, Dragana Prokin, "Comparative Analysis of Memory Efficient Hardware Architectures for Lifting Based and Non-Stationary Filter Based 5/3 2-D Inverse DWT," *Proceedings of 8th Mediterranean Conference on Embedded Computing (MECO),* 10-14 June 2019, Budva, Montenegro, pp. 188-191.

3.3.24 **Milan Prokin**, "E-Mobility game changers: autonomous driving & e-cars, new mobility services and e-infrastructure," *II E-Mobility Forum* 2018, 5 October 2018, Belgrade, Serbia.

3.3.25 Aleksandar Miljković, Milan Čabarkapa, **Milan Prokin**, Đurađ Budimir, "The importance of IoT and IoT forensics," *Proceedings of "Archibald Reiss Days,"* 2-3 Oct. 2018, Belgrade, Serbia, vol. II, pp. 395-404.

3.3.26 **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.

3.3.27 **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.

3.3.28 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.

3.3.29 Mioljub Jovanović, Milan Čabarkapa, Benoit Claise, Nataša Nešković, **Milan Prokin**, Đurađ 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. TEI1.4.1186-1189.

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

3.3.31 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.

3.3.32 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.

3.3.33 Milan Čabarkapa, Nataša Nešković, **Milan Prokin**, Aleksandar Nešković, Đurađ 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.

3.3.34 Tijana Bovan, Milan Čabarkapa, Nataša Nešković, **Milan Prokin**, Đurađ 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.

3.3.35 **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.

3.3.36 **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. 273-276.

3.3.37 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.

3.3.38 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.

3.3.39 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.

3.3.40 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.

3.3.41 **Milan Prokin**, Dragana Prokin, "GPRS terminals for reading fiscal registers," *Proceedings of 2nd Mediterranean Conference on Embedded Computing MECO 2013*, Budva, Montenegro, 15-20 June 2013, pp. 259-262.

3.3.42 Vladimir Rajović, **Milan Prokin**, Vladimir Čeperković, Dragana Prokin, "An image codec with minimum memory size," *Proceedings of 2nd Mediterranean Conference on Embedded Computing MECO 2013*, Budva, Montenegro, 15-20 June 2013, pp. 148-151.

3.3.43 Vladimir Čeperković, **Milan Prokin**, "Non-stationary one-dimensional subband transformer filters," *Proceedings of Mediterranean Conference on Embedded Computing MECO 2012*, Bar, Montenegro, 19-21 June 2012, pp. 132-135.

3.3.44 Dragana Prokin, **Milan Prokin**, "Lowest complexity adaptive rank filter for FPGA implementation," *Proceedings of Mediterranean Conference on Embedded Computing MECO 2012*, Bar, Montenegro, 19-21 June 2012, pp. 1-4.

3.3.45 Gabrijela Dimić, Dragana Prokin, Kristijan Kuk, **Milan Prokin**, "Moodle kao platforma za realizaciju nastavnih aktivnosti iz predmeta Arhitektura i organizacija računara 1," *Proceedings of INFOTEH 2012*, Jahorina, Bosnia and Herzegovina, 21-23 Mar. 2012, pp. 857-862.

3.3.42 Vladimir Rajović, **Milan Prokin**, Vladimir Čeperković, Dragana Prokin, "An image codec with minimum memory size," *Proceedings of 2nd Mediterranean Conference on Embedded Computing MECO 2013*, Budva, Montenegro, 15-20 June 2013, pp. 148-151.

3.3.43 Vladimir Čeperković, **Milan Prokin**, "Non-stationary one-dimensional subband transformer filters," *Proceedings of Mediterranean Conference on Embedded Computing MECO 2012*, Bar, Montenegro, 19-21 June 2012, pp. 132-135.

3.3.44 Dragana Prokin, **Milan Prokin**, "Lowest complexity adaptive rank filter for FPGA implementation," *Proceedings of Mediterranean Conference on Embedded Computing MECO 2012*, Bar, Montenegro, 19-21 June 2012, pp. 1-4.

3.3.48 **Milan Prokin**, "Dynamic response of the double buffered frequency measurement method," *IEEE Instrumentation and Measurement Technology Conference IMTC-92*, New York, pp. 46-51, May 12-14, 1992.

Scientific paper in a distinguished national journal	**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, "Optimal hardware implementation of a direct subband transformer," *Tehnika*, vol. 64, no. 5, 2015, pp. 815-821.

5.2.3 Branimir Reljin, **Milan Prokin**, Miodrag Zlatanović, "Electronic information system for tractor applications," *Tehnika - Elektrotehnika*, vol. XL, no. 9-10, pp. 650-654, 1991.

Scientific paper in a national journal	**M53**

5.3.1 Vladimir Čeperković, **Milan Prokin**, "Non-stationary two-dimensional subband transformer filters," *Telfor Journal*, vol. 5, no. 2, pp. 113-117, 2013.

5.3.2 Dragana Prokin, **Milan Prokin**, "Morphological and median adaptive filters based on LCBP rank filter," *Telfor Journal*, vol. 5, no. 2, pp. 123-127, 2013.

Invited lecture from a national conference printed in its entirety	**M61**

6.1.1 Dragana Prokin, **Milan Prokin**, "Fast bit-pipeline rank filter," *Proceedings of 19th Telecommunications Forum (TELFOR)*, Belgrade, Nov. 2011, pp. 882-887.

6.1.2. **Milan Prokin**, "Fiscal cash registers in the oil economy of Serbia," *Proceedings of YUNGINFO*, Zlatibor, 2003.

Scientific paper from a national conference printed in its entirety	**M63**

6.3.1 Jovan Vujasinović, Goran Savić, **Milan Prokin**, "Terminal za daljinsko upravljanje stanice za punjenje električnih vozila koja se napaja iz obnovljivih izvora električne energije," *20th International Symposium INFOTEH-JAHORINA*, Jahorina, Istočno Sarajevo, Republika Srpska, Bosna i Hercegovina, 17-19 March 2021, pp. 70-74.

6.3.2 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.

6.3.3 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.

6.3.4 Milan Čabarkapa, Nataša Nešković, **Milan Prokin**, Đurađ 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.

6.3.5 Vladimir Čeperković, **Milan Prokin**, "Non-stationary two-dimensional subband transformer filters," *Proceedings of 20th Telecommunications Forum (TELFOR)*, Nov. 2012, Belgrade, pp. 772-775.

6.3.6 Dragana Prokin, **Milan Prokin**, "Median and morphological filters based on LCBP rank filter," *Proceedings of 20th Telecommunications Forum (TELFOR)*, Nov. 2012, Belgrade, pp. 650-653.

6.3.7 Dragana Prokin, **Milan Prokin**, "Fast bit-pipeline rank filter," *Proceedings of 19th Telecommunications Forum (TELFOR)*, Nov. 2011, Belgrade, pp. 882-887.

6.3.8   Dragana Prokin, **Milan Prokin**, "First generation of turnover control devices," *Proceedings of 19th Telecommunications Forum (TELFOR)*, Nov. 2011, Belgrade, pp. 888-891.

6.3.9   Lazar Karbunar, **Milan Prokin**, "Power and cost efficient IPTV systems," *Proceedings of 19 th Telecommunications Forum (TELFOR)*, Nov. 2011, Belgrade, pp. 1171-1174.

6.3.10 Lazar Karbunar, **Milan Prokin**, "Otpornost H.264 video sekvence na greške," *Zbornik radova 53. Konferencije za ETRAN*, Jun 2009, Vrnjačka Banja.

6.3.11. **Milan Prokin**, "Power Booster Audio Amplifier," *Zbornik radova IX TELFOR*, Beograd, 2001.

6.3.12. **Milan Prokin**, "Boost Bridge Audio Amplifier," *Zbornik radova IX TELFOR*, Beograd, 2001.

6.3.13. V. Jovanović, **Milan Prokin**, Vladimir Terzija, "Autokorelaciona metoda za precizno merenje frekvencije u podfrekventnoj zaštiti elektroenergetskog sistema," *Zbornik radova JUKO CIGRE*, Herceg Novi, 2001.

6.3.14 Nenad Stanisavljević, **Milan Prokin**, "Sistem sprege monohromatske video kamere sa PC računarom zasnovan na serijskoj magistrali IEEE 1394," *Zbornik radova XLIII Konferencije ETRAN*, Zlatibor, 1999.

6.3.15 Aleksandar Čančar, **Milan Prokin**, "Digitalizator slike spregnut sa EPP paralelnim portom," *Zbornik radova XLIII Konferencije ETRAN*, Zlatibor, 1999.

6.3.16 Čedomir Bratić, **Milan Prokin**, "Analiza maksimalnog protoka podataka preko PCI magistrale," *Zbornik radova XLII Konferencije ETRAN*, Budva, 1998.

6.3.17 **Milan Prokin**, Lero Slavoljub, "Periferijski uređaj za maksimalnu brzinu prenosa preko univerzalne serijske magistrale (USB)," *Zbornik radova XLII Konferencije ETRAN*, Budva, 1998.

6.3.18 Aleksandra Ristić, **Milan Prokin**, "Protokolni kontroler za serijsku komunikaciju sa HOTLINK interfejsom," *Zbornik radova XLI Konferencije ETRAN*, Zlatibor, 1997.

6.3.19 **Milan Prokin**, Zoran Zirojević, Ivan Popović, Dejan Nikolić, "Sistem za računarsku fonokardiografiju i akviziciju podataka," *Zbornik radova XLI Konferencije ETRAN*, Zlatibor, 1997.

6.3.20. **Milan Prokin**, "Merenje učestanosti poboljšanom metodom jednostrukog baferisanja," *Zbornik radova XL Konferencije ETRAN*, Budva, 1996.

6.3.21. Čedomir Bratić, **Milan Prokin**, "Prenos multimedijalnih podataka preko PCI magistrale," *Zbornik radova XL Konferencije ETRAN*, Budva, 1996.

6.3.22. **Milan Prokin**, "Registrator prelaznog stanja brzine elektromotora," *Zbornik radova XXXIX Konferencije ETRAN*, Zlatibor, 1995.

6.3.23 **Milan Prokin**, Dejan Živković, "Projekat daljinskog terminala serijske magistrale MIL-STD-1553B," *Zbornik radova XXXV Konferencije ETAN*, Ohrid, 1991.

6.3.24 Vladimir Milanović, **Milan Prokin**, Nenad Kovačević, "Paket za simulaciju radionavigacionih uređaja," *Zbornik radova XXXIV Konferencije ETAN*, Zagreb, 1990.

6.3.25 **Milan Prokin**, Dejan Živković, "Projekat kontrolera serijske magistrale MIL-STD-1553B," *Zbornik radova XXXIV Konferencije ETAN*, Zagreb, 1990.

6.3.26. Vladimir Milanović, **Milan Prokin**, "Simulacija računara vazdušnih podataka," *Zbornik radova XXXIII Konferencije ETAN*, Novi Sad, 1989.

6.3.27. **Milan Prokin**, Dejan Živković, "Sprezanje procesora pomoću serijske magistrale," *Zbornik radova XXXIII Konferencije ETAN*, Novi Sad, 1989.

6.3.28. Ivan Radivojević, Zoran Damjanović, Milenko Cvetinović, **Milan Prokin**, Dejan Živković, "Računar na ploči," *Zbornik radova XXXII Konferencije ETAN*, Sarajevo, 1988.

6.3.29 **Milan Prokin**, Ivan Radivojević, Dejan Živković, "Modul impulsno širinske modulacije," *Zbornik radova XXXII Konferencije ETAN*, Sarajevo, 1988.

A new product introduced into production at an international level	**M81**

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

8.1.2 Vladimir Rajović, Goran Savić, Ivan Popović, Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "CIFF I-frame Decoder Hardware" for *Northrop Grumman Systems Corp – Information Systems*, USA, via CIFF BE for CIFF TC, 2013.

8.1.3 Vladimir Rajović, Goran Savić, Ivan Popović, Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "CIFF I-frame Encoder Hardware" for *Northrop Grumman Systems Corp – Information Systems*, USA, via CIFF BE for CIFF TC, 2012.

An internationally recognized program system	**M81**

8.1.4 **Milan Prokin**, Dragana Prokin, "XIPB IPB-frame Encoder Software," for *Northrop Grumman Systems Corp – Information Systems*, USA via CIFF BE for CIFF TC, 2013.

8.1.5 Vladimir Čeperković, **Milan Prokin**, Dragana Prokin, "CIFF Video Wall Software," for *Northrop Grumman Systems Corp – Information Systems*, USA via CIFF BE for CIFF TC, 2012.

8.1.6 Vladimir Čeperković, **Milan Prokin**, "CIFF Capture Video Sender Software," for *Northrop Grumman Systems Corp – Information Systems*, USA via CIFF BE for CIFF TC, 2011.

8.1.7 Vladimir Čeperković, **Milan Prokin**, "CIFF Player Video Receiver Software," for *Northrop Grumman Systems Corp – Information Systems*, USA via CIFF BE for CIFF TC, 2011.

8.1.8 Vladimir Čeperković, **Milan Prokin**, "CIFF Capture Transmitting Video System," for *CIFF Business Enterprises*, USA od CIFF TC, 2009-2010.

8.1.9 Vladimir Čeperković, **Milan Prokin**, "CIFF Player Receiving Video System," for *CIFF Business Enterprises*, USA od CIFF TC, 2009-2010.

8.1.10 Vladimir Čeperković, **Milan Prokin**, "CIFF Command Line System for Image and Video Compression," for *CIFF Business Enterprises*, USA od CIFF TC, 2007-2008.

8.1.11 Vladimir Čeperković, **Milan Prokin**, "CIFF Command Line System for Image and Video Decompression," for *CIFF Business Enterprises*, USA od CIFF TC, 2007-2008.

A new accepted solution to problems in the field of macroeconomic, social and sustainable spatial development reviewed and accepted at the international level	**M81**

8.1.12 **Milan Prokin**, "Turnover controller system for the transmission of all turnovers to the server of Tanzania Revenue Authority," *Tanzania Revenue Authority*, Dar es Salaam, United Republic of Tanzania, 2012-2013.

8.1.13 **Milan Prokin**, "Fiscal system for the transmission of the actual and cancelled registered turnover to the server of Federal Inland Revenue Authority," *Federal Inland Revenue Authority*, *Ministry of Revenue*, Ethiopia, 2007-2008.

8.1.14 **Milan Prokin**, "GPRS system for transmission of the actual and cancelled registered and returned turnover from fiscal systems to the server of Tax Administration of Federation of Bosnia and Herzegovina," *Tax Administration*, *Ministry of Finance*, Sarajevo, Federation of Bosnia and Herzegovina, Bosnia and Herzegovina, 2009-2010.

8.1.15 **Milan Prokin**, "GPRS system for transmission of the actual and cancelled registered and returned turnover from fiscal systems to the server of Tax Administration of Republic of Srpska," *Tax Administration*, *Ministry of Finance*, Banja Luka, Republic of Srpska, Bosnia and Herzegovina, 2007-2008.

A new accepted solution to problems in the field of macroeconomic, social and sustainable spatial development problems introduced into production	**M82**

8.2.1 **Milan Prokin**, "GPRS system for transmission of the registered turnover from fiscal cash registers to the server of Tax Administration of Republic of Serbia," *Tax Administration, Ministry of Finance*, Belgrade, Serbia, 2005-2006.

Prototype based on a new method	**M85**

8.5.1 Dragana Prokin, **Milan Prokin**, "Hardverska implementacija LCBP rank filtra sa protočnom arhitekturom," *Visoka škola elektrotehnike i računarstva strukovnih studija Beograd*, 2009-2010.

8.5.2 Dragana Prokin, **Milan Prokin**, "Softverski prototip bit-serijskog rank filtra sa protočnom arhitekturom," *Visoka škola elektrotehnike i računarstva strukovnih studija Beograd*, 2009-2010.

Realized patent at the international level	**M91**

9.1.1 Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," Canadian patent CA2499212, 19.11.2013.

9.1.2 Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," U.S. Patent US8306340B2, 6.11.2012.

9.1.3 Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," Korean Patent KR10-11296550000, 16.03.2012.

9.1.4 Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," Japanese patent 2004-568967, 20.10.2011.

9.1.5 Vladimir Čeperković, Saša Pavlović, Dušan Mirković, **Milan Prokin**, "Fast codec with high compression ratio and minimum required resources," Chinese patent *ZL 03825219.8,* 9.07.2008.

9.1.6 **Milan Prokin**, Milenko Cvetinović, "Boost bridge amplifier," U.S. Patent US*6985034B1,* 10.01.2006.

9.1.7 **Milan Prokin**, Milenko Cvetinović, "Boost bridge amplifier," EU Patent EP*1196982B1,* 24.09.2003.

9.1.8 **Milan Prokin**, Milenko Cvetinović, "Boost bridge amplifier," German Patent *DE 60005519D,* 30.10.2003.

9.1.9 **Milan Prokin**, Milenko Cvetinovic, "Power booster amplifier," U.S. Patent *6646507B1,* 11.11.2003.

9.1.10 **Milan Prokin**, Milenko Cvetinovic, "Power booster amplifier," EU Patent *1234377B1,* 14.05.2003.

9.1.11 **Milan Prokin**, Milenko Cvetinovic, "Power booster amplifier," German Patent *DE 60002757D,* 18.06.2003.

9.1.12 **Milan Prokin**, "Extremely Wide Range Frequency Measurement Method," U.S. Patent 5,198,750, 30.03.1993.

Realized patent at the national level	**M92**

9.2.1 **Milan Prokin**,"Turnover controller," Serbian Patent RS51461B, 30.04.2011.

9.2.2 **Milan Prokin**, Milenko Cvetinović, "Boost bridge amplifier," YU patent YU49125B, 12.03.2004.

9.2.3 **Milan Prokin**, Milenko Cvetinovic, "Power booster amplifier," YU patent YU49097B, 31.12.2003.

9.2.4 **Milan Prokin**, "Frekvencmetar širokog opsega merenih učestanosti," YU patent YU47793B, 09.01.1996.

Prepared patent application at the international level important for UAE & World	**M93**

9.3.1 **Milan Prokin**, "Multitarget antiviral dietary supplement" (AVS)

9.3.2 **Milan Prokin**, "MPEG encoders and decoders with enhanced additional filters" (EMPEG)

9.3.3 **Milan Prokin**, "MPEG encoders with enhanced I/P-frame decision" (EMPEG)

9.3.4 **Milan Prokin**, "MPEG encoders with enhanced intraframe decision" (EMPEG)

9.3.5 **Milan Prokin**, "MPEG encoders with enhanced motion search" (EMPEG)

9.3.6 **Milan Prokin**, "Methods for changing identification number lengths, identification number values, random number generators, authentication methods, authentication output lengths, encryption methods, encryption key lengths and encryption key values" (EET)

9.3.7 **Milan Prokin**, "Enhanced symmetric key encryption, perfect random number generation and one-way function generation" (EET)

9.3.8 **Milan Prokin**, "Matrix based enhanced packet forward error correction" (EFEC)

9.3.9 Velimir Petrović, **Milan Prokin**, Aleksandar Fragner, "Deliquescent foliar fertilizer efficient during drought" (Drought saver / Demettra)

Selected projects at the international level

10.1 "EIT Urban Mobility RIS Hub Serbia 2024," *National Association for Autonomous and Electric Vehicles (NAAEV) for EIT Urban Mobility*, (2024), manager.

10.2 "EIT Urban Mobility RIS Hub Serbia 2023," *National Association for Autonomous and Electric Vehicles (NAAEV) for EIT Urban Mobility*, (2023), manager.

10.3 "EIT Urban Mobility RIS Hub Serbia 2022," *National Association for Autonomous and Electric Vehicles (NAAEV) for EIT Urban Mobility*, (2022), manager.

10.4 "EIT Urban Mobility RIS Hub Serbia 2021," *National Association for Autonomous and Electric Vehicles (NAAEV) for EIT Urban Mobility*, (2021), manager.

10.5 "EIT Urban Mobility RIS Hub Serbia 2020," *National Association for Autonomous and Electric Vehicles (NAAEV) for EIT Urban Mobility*, (2020), participant.

10.6 "urbanDRONEscheduler," *National Association for Autonomous and Electric Vehicles (NAAEV) for EIT Urban Mobility*, (2021), subproject manager.

10.7 "MAY-D," *National Association for Autonomous and Electric Vehicles (NAAEV) for EIT Urban Mobility*, (2020), participant.

10.8 "Ur-Bit," *ETF for EIT Urban Mobility*, (2020), subproject manager.

10.9 Various TS classified projects for OGA (Other Government Agency, USA), DEVGRU, USSOCOM, (2008→).

10.10 "Bluetooth antenna for 1-DIN car radio-navigation system," *Robert Bosch GmbH*, Hildesheim, Germany, (1997-1999). Antenna hardware manager/co-author.

10.11 "1-DIN car radio-navigation system without navigation computer and map," *Robert Bosch GmbH*, Hildesheim, Germany, (2000-2002). System manager/second author.

10.12 "Four-channel Class-D Audio Amplifier for 1-DIN car radio," *Robert Bosch GmbH*, Hildesheim, Germany, (1997-1999). The manager/first author of the audio amplifier hardware with a power of 4x40W and dimensions of 65mmx45mmx15mm without the use of a heatsink.

10.13 "Four-channel Class-D Audio Amplifier," *Robert Bosch GmbH*, Hildesheim, Germany, (1996-1997). The manager/first author of the audio amplifier hardware with a power of 4x25W and dimensions of 55mmx45mmx12mm without the use of a cooler.

10.14 "Class-D Audio Amplifier," *Robert Bosch GmbH*, Hildesheim, Germany, (1996). The manager/first author of the audio amplifier hardware with a power of 25W and dimensions of 50mmx45mmx5mm without the use of a cooler.

10.15 "Test Software TP Nav2," *Robert Bosch GmbH*, Hildesheim, Germany, (1996). Head of development of software tools for checking the navigation data base.

10.16 "1-DIN Radio-Navigation System (W168)," *Robert Bosch GmbH*, Hildesheim, Germany, (1996). Lead/first author of the selection, deployment and thermal simulation of the required subsystems for the GPS radio-navigation system for the car.

10.17 "Football (Soccer) Training Machine," (1995-1999). Hardware manager/first author of two real-time video processing boards with 2 EPLD chips each, camera synchronizer hardware, infrared illuminator hardware, 3D terrain base, soccer ball flight parameter determination software (linear and angular velocity), soccer ball flight calculation software (with wind effect), soccer ball bounce calculation software from the surface and obstacles (depending on the surface and obstacle type), soccer ball roll calculation software, soccer flight display software e-ball, software for displaying computer graphics of the football field, and the main software for training selection (penalty, free kick and corner kick).

10.18 "Golf Simulator Machine," *Union International*, Tokyo, Japan, (1991-1995). Lead/first author of real-time video processing board hardware with 3 EPLD chips, sensor position control board hardware, optical sensor board hardware (depending on surface type), electric motor driver hardware, infrared illuminator hardware, 3D terrain database, sound vector database, golf ball flight parameters software (linear and angular velocity), golf ball flight calculation software (with wind effect), golf ball bounce calculation software from surfaces and obstacles (depending from the type of surface and obstacles), software for calculating the roll of the golf ball on the surface (depending on the type of surface), software for displaying the flight of the golf ball, software for displaying recorded video of the golf course,

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Selected projects at the national level

11.1 "Novel oil pipeline leakage detection system (NOPiLDeS)," *Innovation Activity Fund, Belgrade and FASEK*, Novi Sad, 2020-2022, subproject manager/first author of hardware and software for data transmission from ultrasonic protocomers to servers.

11.2 "Hardware, software, telecommunications and energy optimization of the IPTV system," Project TR32039, *Ministry of Education, Science and Technological Development*, Belgrade, 2011→, manager.

11.3 "Development of hardware, software and telecommunication infrastructure of e-system for traffic and tax control," Project TR32047, *Ministry of Education, Science and Technological Development*, Belgrade, 2011→, participant.

11.4 "Examining the functional characteristics of software applications for issuing commands to the fiscal cash register," *Institute for Measurement and Precious Metals*, Belgrade, 2005→, manager.

11.5   "Examination of technical and functional characteristics of remote terminals for reading fiscal cash registers," *Institute for Measurements and Precious Metals, Military-Technical Institute, Technical Test Center KoV*, Belgrade, 2005→, manager.

11.6   "Examination of technical and functional characteristics of fiscal cash registers.," *Institute for Measurements and Precious Metals, Military-Technical Institute, Technical Test Center KoV*, Belgrade, 2003→, manager.

11.7   "Development of a subsystem for determining the position of duants of the VINCY radio frequency cyclotron system," *Institute for Nuclear Science "Boris Kidrich"*, Vinča, (1996-1998). Author of hardware and software for current measurement of optical position sensor, control of laser diodes and coupling system with PC.

11.8.   "Intelligent and adaptive control systems," *Republic Ministry of Science and Technology*, (1996-1999). Author of software for measuring and displaying the hand position of handicapped people in real time.

11.9.   "Electronic measurement and control systems," *Republic Ministry of Science and Technology*, (1996-1999).

11.10. "Integrated electronic diagnostic and service system (ELDISS) for public transport vehicles," *Republic Ministry of Science and Technology*, (1995-1996). Author/co-author of hardware and software for acquisition and signal processing of analog, digital and impulse sensors, control of peripherals, displays and communication.

11.11   "Development of an experimental device for obtaining composite structures," Subproject of the project "Composite Surface Structures on Steel," *Republic Ministry of Science and Technology*, (1995-1997). Author of hardware and software for measuring shaft position and angular velocity.

11.12   "Development of an electronic information system for applications on motor vehicles," *Republic Ministry of Science and Technology*, (1991-1993). Author of hardware and software for acquisition of signals from sensors and software for displaying results.

11.13   "Extremely wide range multi-axis speed measurement system," *Laboratory for micromachines ETF*, Belgrade, (1992). Manager and author of hardware and software for real-time measurement and graphing.

11.14   "Electronic measurement and control systems," *Republic Ministry of Science and Technology*, (1992-1996).

11.15   "Development of sensors and accompanying electronics for applications on tractors and attachments and development of plasma deposition technology," *Republic Ministry of Science and Technology and IMT Belgrade*, (1988-1990). Author of hardware and software for sensor signal acquisition, data processing and storage, serial communication, keyboard and display.

11.16   "Distributed processor system for simulation of aircraft computer systems," *Institute "Mihajlo Pupin" and JNA/VTI Žarkovo*, (1987-1991). Author of the design of the coupling system using the 1553 serial bus, the Air Data Computer (ADC) software module, the Laser Inertial Navigation System (LINS) software, the Air-Ground Mode software module and the communication software over the 1553 serial bus.

11.17   "Specialized computer system for turbogenerator management," *Faculty of Mechanical Engineering* (1988-1989). Author of hardware and software for measuring the speed of a turbojet engine, fuel pump control and co-author of a processor board.

11.18   "Specialized computer system for controlling an unmanned aerial vehicle," *JNA/VTI Žarkovo*, (1986-1991). Author of pulse-width modulation module hardware and software, DC electric motor drive module hardware and software, and second processor module hardware author.

11.19   "Vector control of an asynchronous motor," *JNA/VTI Žarkovo*, (1987-1988). Author of control loop software.

Selected professional works (laws and regulations) at the international level (author)

12.1   "Law on fiscal cash registers," *Official Gazette of the Republic of Srpska*, 69/2007.

12.2   "Regulations on the technical and functional characteristics of the fiscal cash register, the content of the form and the method of examination of the fiscal cash register sample," *Official Gazette of the Republic of Srpska*, 13/2008.

12.3   "Regulations on the technical and functional characteristics of the terminal, the content of the form and the method of examination of the sample of the terminal type," *Official Gazette of the Republic of Srpska*, 13/2008.

12.4   "Regulation on the technical and functional characteristics of the software application, the content of the form and the method of examination of the sample of the software application type," *Official Gazette of the Republic of Srpska*, 13/2008.

12.5   "Regulations on the appearance of fiscal documents, the meaning of certain data contained in fiscal documents and contours of the fiscal logo," *Official Gazette of the Republic of Srpska*, 13/2008.

12.6   "Regulations on the appearance, content and manner of keeping files and service booklets of the fiscal cash register," *Official Gazette of the Republic of Srpska*, 18/2008.

12.7   "Regulations on the appearance, content and manner of keeping files and service booklets of the terminal," *Official Gazette of the Republic of Srpska*, 18/2008.

12.8   "Regulations on the appearance, content and manner of keeping files and service booklets of software applications," *Official Gazette of the Republic of Srpska*, 18/2008.

12.9   "Regulations on the content of requests for initial fiscalization," *Official Gazette of the Republic of Srpska*, 18/2008.

12.10   "Regulations on the content of requests for subsequent fiscalization due to servicing," *Official Gazette of the Republic of Srpska*, 18/2008.

12.11   "Regulations on the content of requests to change the name and address of the point of sale," *Official Gazette of the Republic of Srpska*, 16/2009.

12.12   "Regulations on the content of requests for replacement of the fiscal module," *Official Gazette of the Republic of Srpska*, 18/2008.

12.13   "Regulations on the content of the minutes on the destruction of the fiscal module," *Official Gazette of the Republic of Srpska*, 18/2008.

12.14   "Regulations on the content of requests for deletion from the register of fiscalized cash registers,"*Official Gazette of the Republic of Srpska*, 18/2008.

12.15   "Regulations on the content of the records of authorized services and repairers," *Official Gazette of the Republic of Srpska*, 16/2009.

12.16   "Regulations on the content of records on fiscalized cash registers," *Official Gazette of the Republic of Srpska*, 16/2009.

12.17   "Regulations on the content and maintenance of the book of daily reports," *Official Gazette of the Republic of Srpska*, 18/2008.

12.18   "Regulations on the content of the written fiscal account and the manner of its issuance," *Official Gazette of the Republic of Srpska*, 18/2008.

12.19   "Regulations on the content of the written advertised invoice and the method of issuing it," *Official Gazette of the Republic of Srpska*, 18/2008.

12.20   "Regulations on the appearance and content of notices issued by the taxpayer in the facility where he trades goods or services," *Official Gazette of the Republic of Srpska*, 71/2008.

12.21 "Regulations on the appearance and content of the marking used to mark the object in the case of imposing a measure prohibiting the performance of activities, as well as the method of marking such an object," *Official Gazette of the Republic of Srpska*, 71/2008.

12.22 "Fiscal Systems Law," *Official newspaper of FBiH*, 81/2009.

12.23 "Regulations on types of fiscal devices, technical and functional characteristics of parts of fiscal systems, types of servicing and resetting, and markings on the content of parts of fiscal systems," *Official newspaper of FBiH*, 11/2010.

12.24 "Regulations on the appearance of fiscal, non-fiscal and test documents, the meaning of certain data contained in fiscal documents and contours, the form and content of the fiscal logo," *Official newspaper of FBiH*, 11/2010.

12.25 "Regulations on the content of forms and the method of examination of parts of fiscal systems," *Official newspaper of FBiH*, 31/2010.

12.26 "Regulations on the appearance and content of requests, forms and notifications of other accompanying documents with fiscal systems," *Official newspaper of FBiH*, 30/2010.

12.27 "Regulations on procedures and sequence of actions in the fiscalization process," *Official newspaper of FBiH*, 31/2010.

12.28 "Regulations on the types and forms of seals of the fiscal system," *Official newspaper of FBiH*, 11/2010.

12.29 "Regulations on registration of manufacturers/representatives of fiscal systems," *Official newspaper of FBiH*, 4/2010.

12.30 "Directive No 46/2007 Issued to provide for the use of sales register machines," *Ministry of Revenue*, Democratic Republic of Ethiopia, 2007.

12.31 "Directive No 46/2007 Annex 1, Fiscal and non-fiscal documents specification," *Ministry of Revenue*, Democratic Republic of Ethiopia, 2007.

12.32 "Directive No 46/2007 Annex 2, Forms for application of machine accreditation," *Ministry of Revenue*, Democratic Republic of Ethiopia, 2007.

12.33 "Directive No 46/2007 Annex 3, Definition of communication protocol and data transfer for a sales register system," *Ministry of Revenue*, Democratic Republic of Ethiopia, 2007.

12.34 "Directive No 46/2007 Annex 4, Service book description," *Ministry of Revenue*, Federal Democratic Republic of Ethiopia, 2007.

12.35 "EFD Technical Specifications," *Tanzania Revenue Authority*, United Republic of Tanzania, 2012.

12.36 "Communication protocols and data transfer between electronic fiscal devices and Tanzania Revenue Authority FTP server," *Tanzania Revenue Authority*, United Republic of Tanzania, 2012.

Selected professional works (laws, regulations and regulations) at the national level (author/co-author)

13.1 "Law on Games of Chance," *Official Gazette of the Republic of Serbia*, 88/2011.

13.2 "Regulations on detailed conditions for conducting audio-video surveillance, keeping documentation and providing physical protection in gaming rooms," *Official Gazette of the Republic of Serbia*, 014/2007.

13.3 "Regulations on technical and functional characteristics and technical correctness of machines and tables for games of chance," *Official Gazette of the Republic of Serbia*, 129/2004.

13.4 "Regulations on the determination of IT conditions for organizing special games of chance on automatic machines," *Official Gazette of the Republic of Serbia*, 129/2004, 9/2005, 83/2005 and 8/2006.

13.5 "Regulations on conditions regarding equipment for performing technical inspection and repair of machines and tables for games of chance," *Official Gazette of the Republic of Serbia*, 129/2004.

13.6 "Regulations on the method of determining the fulfillment of the conditions for obtaining approval for organizing games of chance on machines," *Official Gazette of the Republic of Serbia*, 129/2004 and 9/2005.

13.7 "Regulations on the method of determining the fulfillment of the conditions for obtaining approval for organizing games of chance - betting," *Official Gazette of the Republic of Serbia*, 129/2004.

13.8 "Regulation on determining IT conditions for betting shops," *Official Gazette of the Republic of Serbia*, 129/2004.

13.9 "Tobacco Law," *Official Gazette of the Republic of Serbia*, 101/2005.

13.10 "The Law on Amendments to the Law on Excise," *Official Gazette of the Republic of Serbia*, 129/2004 and 46/2005.

13.11 "Law on Fiscal Cashiers," *Official Gazette of the Republic of Serbia*, 135/2004.

13.12 "Decree on the designation of persons who, due to the specificity of their activities, are not subject to the obligation to record turnover through the fiscal cash register," *Official Gazette of the Republic of Serbia*, 100/2004 and 106/2004.

13.13 "Regulations on the contour and bitmap of the fiscal logo, the appearance of fiscal documents and the meaning of certain data contained in fiscal documents," *Official Gazette of the Republic of Serbia*, 140/2004.

13.14 "Regulations on the fiscalization procedure, the content of records on authorized services and repairmen, and the appearance, content and manner of keeping the file and service book of the fiscal cash register," *Official Gazette of the Republic of Serbia*, 140/2004.

13.15 "Regulations on the content and method of recording turnover by issuing a fiscal account, the method of correcting errors in recording turnover through the fiscal cash register, and on the content and keeping of the book of daily reports," *Official Gazette of the Republic of Serbia*, 140/2004.

13.16 "Regulations on the content and appearance of the mark used to mark an object in the event of a temporary ban on activity, as well as the manner of marking such an object," *Official Gazette of the Republic of Serbia*, 140/2004.

13.17 "Regulations on the form and content of notifications from Article 18, paragraph 3 of the Law on Fiscal Cashiers," *Official Gazette of the Republic of Serbia*, 140/2004 and 19/2005.

13.18 "Regulation on the method of recording transactions through cash registers with fiscal memory and on the dynamics of the introduction of such cash registers," *Official Gazette of the Republic of Serbia*, 39/2003 and 72/2003.

13.19 "Regulations on the fiscalization procedure, form, content and method of keeping records, appearance and content of the service booklet, register of cash registers with fiscal memory," *Official Gazette of the Republic of Serbia*, 78/2003.

13.20 "Regulations on the appearance of fiscal documents," *Official Gazette of the Republic of Serbia*, 78/2003.

Books

14.1 **Milan Prokin**, "Computer Electronics," *Academic Mind*, Belgrade, 2006 (textbook)

14.2. **Milan Prokin**, Radivoje Đurić, Jovan Vujasinović, Goran Savić, "Fundamentals of electronics - a manual for laboratory exercises - all departments except the Department of Electronics," *School of Electrical Engineering Belgrade*, *Academic Mind*, Belgrade, 2006 (assistant textbook)

14.3. **Milan Prokin**, "Microprocessor Electronics," *Academic Thought*, Belgrade, 2002, 2003 (textbook)

14.4. **Milan Prokin**, "New methods for the real-time speed and frequency measurement," *Academic Mind*, Belgrade, 2002. (monograph and auxiliary textbook for the course Designing digital systems and postgraduate studies for students from Libya)

Teaching

Teaching at ETF regular studies included and includes lectures in the following subjects:

15.1 Computer electronics

15.2 Analog electronics 1

15.3 Basics of analog electronics

15.4 Basics of electronics

15.5 Laboratory exercises in electronics 1

15.6 Microprocessor electronics

15.7 Designing digital systems

15.8 Linear electronics

15.9 Electronics 1

15.10 Electronics 2

15.11 Management microcomputer systems

15.12 Designing electronic circuits using computers

Teaching at the Military Academy in Žarkovo and Banjica included lectures in the following subjects:

15.13 Electronics 1

15.14 Designing electronic circuits using computers

Teaching at postgraduate studies for domestic students includes:

15.15 Designing digital systems

15.16 Interfacing PC

15.17 Application of microcomputers

15.18 Electronic systems for urban mobility.

Teaching at postgraduate studies for students from Libya included lectures in the following subjects:

15.18 Microcomputer Interfacing (with Prof. Dr. D. Živković)

15.19 Selected Topics in Digital System Design (with assistant professor Dr. Cvetinović)

15.20 Device Driver Programming and Computer Interfacing (with Prof. Dr. D. Živković)

15.21 Digital Electronics (with Prof. Dr. D. Živković and Prof. Dr. M. Popović).

Social activity

16.1   2Zero Partnership via NAAEV, 2023-present.

16.2   Connected, Cooperative & Automated Mobility (CCAM) Partnership via NAAEV, 2023-present.

16.3   European Institute of Innovation & Technology Urban Mobility Regional Innovation Scheme (EIT UM RIS) Hub Serbia Manager, 2021-2024, and participant, 2020.

16.4   President of the Experts Council, National Association for Autonomous and Electric Vehicles (NAAEV), 2017-2024.

16.5   Member of the Governing Board, National Association for Autonomous and Electric Vehicles (NAAEV), 2017-2024.

16.6   Voting member of Motion Imagery Standards Board (MISB) under the umbrella of National Geospatial-Intelligence Agency (NGA), 2008-present.

16.7   Consultant of Directorate-General Taxation and Customs Union, Indirect taxation and Tax administration, Administrative cooperation and fight against fiscal fraud, Fiscalis FPG 12 Cash Register Project Group, European Commission, 2007–2010.

16.8   Advisor of the Minister of Finance of the Republic of Srpska, 2006–2008.

16.9   Consultant of the Tanzania Revenue Authority, 2012-2015.

16.10   Consultant of the Malawi Revenue Authority, 2012-2015.

16.11   Consultant of the Federal Inland Revenue Authority of Ethiopia, 2007-2009.

16.12   Consultant of the Tax Administration of the Republic of Slovenia, 2007-2011.

16.13   Consultant of the Public Revenue Administration of the Republic of Macedonia, 2007–2008.

16.14   Consultant of the Administration for Indirect-Indirect Taxation of Bosnia and Herzegovina, 2006-2007.

16.15   Expert associate and Advisor to the President of the Commission of the Government of the Republic of Serbia for the implementation of the Law on fiscal cash registers, 2003-2011.

16.16   Member of the Commission of the Institute / Directorate for Measures and Precious Metals of Serbia for the implementation of the Law on Games of Chance, 2004-2011.

16.17   Member of the Commission of the Institute / Directoratefor measures and precious metals of Serbia for the implementation of the Law on fiscal cash registers, 2003–2023.

16.18   Member of the Working Group for the preparation of the working version of the draft Law on Fiscal Cashiers, 2017-2018.

16.19   Member of the Working Group for Fiscalization Improvement, 2015-2017.

Awards

17.1   "Award for the best doctoral dissertation,"*Belgrade Chamber of Commerce*, 2005, candidate Nebojsa Fišeković, mentor Milan Prokin.

17.2.   Annual Award of the Chamber of Commerce of Belgrade for invention within the project 11.7. together with 3 colleagues from the project (1996).

17.3.   Student of the 1985/86 generation, University of Belgrade (1986).

17.4.   Prize from the fund of prof. Dr. Aleksandar Damjanović, ETF Belgrade (1986).

17.5.   Prize from the fund of prof. Dr. Simon Ćetković, ETF Belgrade (1984)