

# Prof. Dr.-Ing. Milan Gnjatović

milangnjatovic@yahoo.com | www.gnjatovic.info

— CV updated April 2025 —

## Employment

- University of Criminal Investigation and Police Studies, Belgrade: **Full Professor** (2024–present), **Associate Professor** (2020–2024)
- School of Engineering and Architecture, SRH University Heidelberg, Germany: **Visiting Professor** (2018–present)
- Faculty of Technical Sciences, University of Novi Sad, Serbia: **Visiting Professor** (2020–present), **Associate Professor** (2019–2020) and **Assistant Professor** (2014–2019)
- Faculty of Social Sciences, Belgrade (University Business Academy in Novi Sad): **Visiting Professor** (2024–present)
- Faculty of Law and Business Studies Dr. Lazar Vrkatić, Novi Sad (Union University): **Visiting Professor** (2024)
- TCOM d.o.o., Belgrade: **Software Architect** (2019–2023)
- Faculty of Computer Science, Megatrend University, Belgrade, Serbia: **Acting Dean** (2018–2020), **Visiting Professor** (2020–2022) and **Associate Professor** (2014–2016)
- School of Electrical and Computer Engineering of Applied Studies, Belgrade, Serbia: **Professor** (2015–2017)
- Higher Education Technical School of Professional Studies in Novi Sad: **Visiting Research Associate** (2013)
- Axon — Intelligentni Sistemi d.o.o., Novi Sad: **Project Leader** (2012–2013)
- Faculty of Technical Sciences, University of Novi Sad, Serbia: **Research Associate** (2010–2014)
- Lakeview Technologies Serbia d.o.o., Beograd: **Software Developer** (2009–2010)
- Department of Knowledge Processing and Language Engineering, Otto-von-Guericke University Magdeburg, Germany: **Research Assistant** (2006–2009)

## Education

- **Dr.-ing. Computer Science**, Otto-von-Guericke University Magdeburg, Germany (2009)
  - Doctoral scholarship of the state of Saxony-Anhalt, Germany (2006, gratefully declined)
- **M.Sc. Computer Science**, Otto-von-Guericke University Magdeburg, Germany (2005)
  - Best graduate M.Sc. student in Computer Science of the year 2004/2005
  - German Academic Exchange Service (DAAD) scholarship for further academic study and training in Germany (2004–2005)

## Projects

Prof. Gnjatović was involved with a number of research and industry-standard projects in the fields of artificial intelligence, natural language processing, image processing, robotics and distributed information systems, including but not limited to the following:

- "gReact System", an ecological information system aimed at supporting the work of state institutions of ecology, TCOM d.o.o., Belgrade. Role: **Software Architect**.
- "Soft Green IT Platform", an information system aimed at supporting the work of the operation center for emergency management in Vršac (Serbia), TCOM d.o.o., Belgrade, funded under the Interreg-IPA Cross-border Cooperation Romania–Serbia Programme, eMS code: RORS-283. Role: **Software Architect**.
- "VSS ORD System", a system for automatic contactless electricity meter reading by a mobile phone application, TCOM d.o.o., Belgrade. Role: **Software Architect**.
- "Design of Robots as Assistive Technology for the Treatment of Children with Developmental Disorders", sponsored by the Ministry of Education, Science and Technological Development of the Republic of Serbia. Role: **Leader of the Subproject "Multimodal Human-Machine Interaction"**.
- "A platform for the applications of speech technologies on smartphones for the languages of the Danube region — DANSPLAT", sponsored by the intergovernmental network EUREKA. Role: **Researcher**.
- "Collaborative strategies of heterogeneous robot activity at solving agriculture missions controlled via intuitive human-robot interfaces", sponsored within the framework of the ERA.Net RUS Plus. Role: **Researcher**.
- "Study of Human-Robot Interaction: Use of Robot as Assistive Technology for Cerebral Palsy Rehabilitation", project between the Faculty of Technical Sciences in Novi Sad and the Changshu Institute of Technology; sponsored within the framework of the bilateral cooperation between the Republic of Serbia and the People's Republic of China. Role: **Researcher**.
- "Development of Dialogue Systems for Serbian and Other South Slavic Languages", sponsored by the Ministry of Education, Science and Technological Development of the Republic of Serbia. Role: **Researcher**.
- "Central Audio Library of the University of Novi Sad", sponsored by the Provincial Secretariat for Science and Technological Development of Vojvodina, Serbia. Role: **Researcher**.
- "Development and Realization of Modern Multi-Finger Anthropomorphic Robotic Hand", sponsored by the Provincial Secretariat for Science and Technological Development of Vojvodina, Serbia. Role: **Researcher**.
- "Application of Spoken Dialogue Systems in Smart Phones", sponsored by the Innovation Fund of the Republic of Serbia, Axon — Inteligentni Sistemi d.o.o., Novi Sad. Role: **Project Leader**.
- "Development and Application of Speech and Language Technologies for Serbian and other Languages", sponsored by the Provincial Secretariat for Science and Technological Development of Vojvodina, Serbia. Role: **Researcher**.
- "Spoken Human-Machine Interaction", sponsored by the Ministry of Science and Technological Development of the Republic of Serbia. Role: **Researcher**.
- SFB Transregio 62: "A Companion-Technology for Cognitive Technical Systems", sponsored by the German Research Foundation (DFG). Role: **Researcher**.
- "Neurobiologically inspired, multimodal intention recognition for technical communication systems (NI-MITEK)", sponsored within the framework of the Excellence Program "Neurowissenschaften" of the federal state of Saxony-Anhalt, Germany. Role: **Researcher**.

## External Professional Service

- **Editor-in-Chief**, Journal of Computer and Forensic Sciences, University of Criminal Investigation and Police Studies in Belgrade (2022–present),
- **International Organizing Committee member**, the 16<sup>th</sup> IEEE International Conference on "Cognitive Infocommunications", Vienna, Austria (2025),
- **Technical Program Committee member**, the Workshop on AI Applications for Social Goods at the International Joint Conference on Neural Networks (IJCNN) 2025, Rome, Italy,
- **Scientific Board member**, XV International Scientific Conference "Archibald Reiss Days", Belgrade, Serbia (2025),
- **International Organizing Committee member**, the 15<sup>th</sup> IEEE International Conference on "Cognitive Infocommunications", Hachioji City, Tokyo (2024),
- **Editorial Board member** and **Scientific Board member**, XIV International Scientific Conference "Archibald Reiss Days", Belgrade, Serbia (2024),
- **Guest Editor**, Special Issue of the Axioms journal (MPDI) on "Recent Advances in Numerical Algorithms for Machine Learning" (2023–2024),
- **Program Committee member**, the 21st IEEE International Conference on Dependable, Autonomic & Secure Computing conference (DASC 2023), Abu Dhabi, UAE (2023),
- **International Organizing Committee member** and **Technical Program Committee member**, the 14<sup>th</sup> IEEE International Conference on "Cognitive Infocommunications" (2023),
- **Editorial Board member**, International Scientific Conference "Admissibility of Evidence in the European Legal Space", University of Criminal Investigation and Police Studies in Belgrade (2023),
- **Reviewer Board member**, **Symmetry**, MDPI (2022–present),
- **Program Committee member**, Special session on social and biometric data for applications in human machine interactions: models and algorithms (SOBIOAPPS), in conjunction with the 7<sup>th</sup> IEEE Cyber Science and Technology Congress (CyberSciTech 2022), Calabria, Italy (2022),
- **Editorial Board member** and **Organizing Committee member**, XII International Scientific Conference "Archibald Reiss Days", Belgrade, Serbia (2022),
- **International Organizing Committee member** and **Technical Program Committee member**, the 13<sup>th</sup> International Conference on "Cognitive Infocommunications" (2022),
- **Independent Expert** for the Dutch Research Council (2021),
- **Program Committee member**, the 2<sup>nd</sup> IEEE International Conference on Human-Machine Systems, Magdeburg, Germany (2021),
- **International Organizing Committee member** and **Session Chair**, the 12<sup>th</sup> International Conference on "Cognitive Infocommunications" (2021),
- **Technical Program Committee member**, the 1<sup>st</sup> IEEE International Conference on Human-Machine Systems, the special track on "Behaving cognitive systems: believable, autonomous, adaptive, context aware (BEINGS) track", Rome, Italy (2020),
- **Technical Program Committee member**, the 11<sup>th</sup> Int'l Workshop on Spoken Dialog System Technology, Madrid, Spain (2020),
- **Technical Program Committee member**, INTERSPEECH 2019, the special track on "Dynamics of Emotional Speech Exchanges in Multimodal Communication", Graz, Austria (2019),
- **Session Chair**, the 10<sup>th</sup> International Conference on "Cognitive Infocommunications", Naples, Italy (2019),

- **International Advisory Board member** and **Session Chair**, the 8<sup>th</sup> International Conference on "Cognitive Infocommunications", Debrecen, Hungary (2017),
- **Program Committee member**, int'l conference "Business Information Security", Belgrade, Serbia (2017–2021),
- **Independent External Expert** for the European Cooperation in Science and Technology Association (2015–2016),
- **Member** of Topic Group "Natural Interaction with Social Robots" of euRobotics AISBL (2014–2017),
- **Member** of "The Centre for Vibro-Acoustic Systems and Signal Processing", Faculty of Technical Sciences, Novi Sad (2014–2020),
- **Session Chair**, int'l conference "Speech and Computer — SPECOM", Novi Sad, Serbia (2014),
- **Program Committee member**, conference "Digital Speech and Image Processing", Serbia (2012–2019),
- **International Scientific Committee member** "ICT COST Action 2102 — Cross-Modal Analysis of Verbal and Non-verbal Communication" (in the framework of the European Cooperation in Science and Technology) (2010–2011),
- **Reviewer** for Computers in Human Behavior (Elsevier), Cognitive Computation (Springer), Intelligent Service Robotics (Springer), Pattern Analysis and Applications (Springer), Entropy (MDPI), Sensors (MDPI), Information (MDPI), Mathematics (MDPI), Symmetry (MDPI), Bioengineering (MDPI), Cryptography (MDPI), Micromachines (MDPI), Electronics (MDPI), Sustainability (MDPI), International Journal of Environmental Research and Public Health (MDPI), Journal of Marine Science and Engineering (MDPI), Future Internet (MDPI), Machine Learning and Knowledge Extraction (MDPI), Systems (MDPI), Algorithms (MDPI), Arts (MDPI), Materials (MDPI), Journal of Sensor and Actuator Networks (MDPI), Intelligent Decision Technologies (IOS Press), International Journal on Artificial Intelligence Tools (World Scientific), Acta Polytechnica Hungarica (Óbuda University), and a number of international conferences.

## Refereed Journal Articles

### M21a

1. Srđan Barzut, Milan Milosavljević, Saša Adamović, Muzafer Saračević, Nemanja Maček, Milan Gnjatović (2021) A Novel Fingerprint Biometric Cryptosystem Based on Convolutional Neural Networks, in Mathematics, Vol. 9, No. 7: 730.
2. Saša Adamović, Vladislav Mišković, Nemanja Maček, Milan Milosavljević, Marko Šarac, Muzafer Saračević, Milan Gnjatović (2020) An efficient novel approach for iris recognition based on stylometric features and machine learning techniques, in Future Generation Computer Systems Vol. 107, pp. 144-157.
3. Milan Gnjatović, Vlado Delić (2014) Cognitively-inspired representational approach to meaning in machine dialogue, Knowledge-Based Systems, Vol. 71, pp. 25–33.
4. Milan Gnjatović, Dietmar Rösner (2010) Inducing Genuine Emotions in Simulated Speech-Based Human-Machine Interaction: The NIMITEK Corpus, IEEE Transactions on Affective Computing, Vol. 1, No. 2, pp. 132–144, July–Dec. 2010 (five-year IF impact factor).

### M21

1. Ivan Košanin, Milan Gnjatović, Nemanja Maček, Dušan Joksimović (2023) A Clustering-Based Approach to Detecting Critical Traffic Road Segments in Urban Areas, in Axioms, Vol. 12, No. 6: 509.
2. Milan Gnjatović, Nemanja Maček, Muzafer Saračević, Saša Adamović, Dušan Joksimović, Darjan Karabašević (2023) Cognitively Economical Heuristic for Multiple Sequence Alignment under Uncertainties, in Axioms, Vol. 12, No. 1: 3.

3. Milan Gnjatović, Marko Janev, Vlado Delić (2012) Focus Tree: Modeling Attentional Information in Task-Oriented Human-Machine Interaction, *Applied Intelligence*, Vol. 37, No. 3, pp. 305-320, Springer US.
4. Branislav Popović, Marko Janev, Darko Pekar, Nikša Jakovljević, Milan Gnjatović, Milan Sečujski, Vlado Delić (2012) A Novel Split-and-Merge Algorithm for Hierarchical Clustering of Gaussian Mixture Models, *Applied Intelligence*, Vol. 37, No. 3, pp. 377–389, Springer US.

**M22**

1. Slaviša Ilić, Milan Gnjatović, Ivan Tot, Boriša Jovanović, Nemanja Maček, Marijana Gavrilović Božović (2024) Going beyond API Calls in Dynamic Malware Analysis: A Novel Dataset, in *Electronics*, Vol. 13, No. 17, 3553.
2. Milan Gnjatović, Ivan Košanin, Nemanja Maček, Dušan Joksimović (2022) Clustering of Road Traffic Accidents as a Gestalt Problem, in *Applied Sciences*, Vol. 12, No. 9: 4543.
3. Milan Gnjatović, Nemanja Maček, Saša Adamović (2020) Putting Humans Back in the Loop: A Study in Human-Machine Cooperative Learning, in *Acta Polytechnica Hungarica*, Vol. 17, No. 2, pp. 191-210.
4. Nemanja Maček, Saša Adamović, Milan Milosavljević, Miloš Jovanović, Milan Gnjatović, Branimir Trenkić (2019) Mobile Banking Authentication Based on Cryptographically Secured Iris Biometrics, in *Acta Polytechnica Hungarica*, Vol. 16, No. 1, pp. 45–62.
5. Jovica Tasevski, Milan Gnjatović, Branislav Borovac (2018) Assessing the Children's Receptivity to the Robot MARKO, *Acta Polytechnica Hungarica*, Joint Special Issue on TP Model Transformation and Cognitive Infocommunications, Vol. 15, No. 5, pp. 47–66.
6. Milan Gnjatović (2014) Therapist-Centered Design of a Robot's Dialogue Behavior, *Cognitive Computation*, Vol. 6, No. 4, pp. 775–788.
7. Vlado Delić, Milana Bojanić, Milan Gnjatović, Milan Sečujski, Slobodan T. Jovičić (2012) Discrimination Capability of Prosodic and Spectral Features for Emotional Speech Recognition, *Elektronika ir Elektrotehnika*, Vol. 18, No. 9, pp. 51–54.
8. Ivan Jokić, Stevan Jokić, Zoran Perić, Milan Gnjatović, Vlado Delić (2012) Influence of the Number of Principal Components used to the Automatic Speaker Recognition Accuracy, *Elektronika ir Elektrotehnika*, Vol. 18, No. 7, pp. 83–86.

**M23**

1. Srđan Savić, Milan Gnjatović, Darko Stefanović, Bojan Lalić, Nemanja Maček (2020) Automatic Domain Modelling for Human-Robot Interaction, in *Intelligent Service Robotics*, Vol. 13, pp. 99–111 (first online: 03 December 2019).
2. Dragiša Mišković, Milan Gnjatović, Perica Štrbac, Branimir Trenkić, Nikša Jakovljević, Vlado Delić (2017) Hybrid Methodological Approach to Context-Dependent Speech Recognition, *International Journal of Advanced Robotic Systems*, Vol. 14, No. 1.

**M24**

1. Vlado Delić, Milan Gnjatović, Nikša Jakovljević, Branislav Popović, Ivan Jokić, Milana Bojanić (2014) User-Awareness and Adaptation in Conversational Agents, *Facta Universitatis, Series: Electronics and Energetics* Vol. 27, No 3. pp. 375–387.

**M51**

1. Slaviša Ilić, Milan Gnjatović, Brankica Popović, Nemanja Maček (2022) A Pilot Comparative Analysis of the Cuckoo and Drakvuf Sandboxes: An End-User Perspective, in *Military Technical Courier*, Vol. 70, No. 2, pp. 372–392.

**M53**

1. Ivan Jokić, Stevan Jokić, Milan Gnjatović, Milan Sečujski, Vlado Delić (2011) The Impact of Telephone Channels on the Accuracy of Automatic Speaker Recognition, TELFOR Journal, vol. 3, no 2, pp. 100–104.

**Books, Chapters and Conference Papers****Books**

1. Milan Gnjatović (2024) Introduction to Processing, University of Criminal Investigation and Police Studies in Belgrade (textbook, in Serbian).
2. Milan Gnjatović (2023) Computer Organization from a Programmer's Perspective, University of Criminal Investigation and Police Studies in Belgrade (textbook, in Serbian).
3. Milan Gnjatović (2021) Concepts of Functional and Imperative Programming, University of Criminal Investigation and Police Studies in Belgrade (textbook, in Serbian).
4. Milan Gnjatović, Darko Stefanović (2021) Selected Topics in Safety and Security of Information Systems, second edition, Faculty of Technical Sciences, University of Novi Sad (textbook, in Serbian).
5. Milan Gnjatović, Darko Stefanović (2018) Selected Topics in Safety and Security of Information Systems, first edition, Faculty of Technical Sciences, University of Novi Sad (textbook, in Serbian).
6. Milan Gnjatović (2017) Introduction to Web Information Retrieval, School of Electrical and Computer Engineering of Applied Studies, Belgrade (textbook, in Serbian).
7. Milan Gnjatović (2009) Adaptive Dialogue Management in Human-Machine Interaction, Verlag Dr. Hut, Munich, Doctoral dissertation.

**Book Chapters**

1. Nikola Vukobrat, Nemanja Maček, Saša Adamović, Muzafer Saračević, Milan Gnjatović (2023) Implementation of two factor authentication using face and iris biometrics, in Solutions for the Security of IoT-Based Healthcare Systems, Elsevier, pp. 77-96.
2. Nikola Vukobrat, Saša Adamović, Nemanja Maček, Muzafer Saračević, Milan Gnjatović (2021) Cryptanalysis and Security Evaluation Using Artificial Neural Networks, in Integration of WSNs into Internet of Things: A Security Perspective, Series: Internet of Everything's (IoE): Security and Privacy Paradigm, CRC Press, Taylor & Francis Group, USA, pp. 65–80.
3. Milan Gnjatović (2019) Conversational Agents and Negative Lessons from Behaviourism, in Innovations in Big Data Mining and Embedded Knowledge, Springer series in Intelligent System Reference Library, Springer, pp. 259–274, Invited chapter.
4. Milan Gnjatović, Branislav Borovac (2016) Toward Conscious-Like Conversational Agents, In: Toward Robotic Socially Believable Behaving Systems, Volume II — Modeling Social Signals, A. Esposito, L.C. Jain (eds.), volume 106 of the series Intelligent Systems Reference Library, Springer, pp. 23–45, Invited chapter.
5. Branislav Borovac, Milan Gnjatović, Srđan Savić, Mirko Raković, Milutin Nikolić (2016) Human-like Robot MARKO in the Rehabilitation of Children with Cerebral Palsy, New Trends in Medical and Service Robots. Assistive, Surgical and Educational Robotics, Vol. 38 of the series Mechanisms and Machine Science, Springer International Publishing, pp. 191–203.
6. Branko Karan, Špela Golubović, Milan Gnjatović (2014) Markerless Vision-Based Skeleton Tracking in Therapy of Gross Motor Skill Disorders in Children, New Trends in Medical and Service Robots, Mechanisms and Machine Science, vol. 20, pp. 79–93, Springer International Publishing.
7. Vlado Delić, Milan Sečujski, Nikša Jakovljević, Milan Gnjatović, Igor Stanković (2013) Challenges of Natural Language Communication with Machines. Chapter 19 in DAAAM International Scientific Book 2013, pp. 371–388, B. Katalinić, Z. Tekić (Eds.), Published by DAAAM International, Vienna, Austria.  
This chapter is also published as:

8. Vlado Delić, Milan Sečujski, Nikša Jakovljević, Milan Gnjatović, Igor Stanković (2013) Challenges of Natural Language Communication with Machines. Chapter VIII in Industrial Engineering — Challenges for the Future, pp. 153–169, D. Zelenović & B. Katalinić (Eds.), published by Faculty of Technical Sciences (Novi Sad, Serbia), DAAAM International (Vienna, Austria) and Fraunhofer IAO (Stuttgart, Germany).
9. Milan Gnjatović, Vlado Delić (2012) Attention and linguistic encoding of motion events in human-machine interaction, Selected papers from SinFonIJa 3 (The 3rd International Conference of Syntax, Phonology and Language Analysis), Novi Sad, S. Halupka-Rešetar, M. Marković, T. Milićev, N. Milićević, (Eds.) Cambridge Scholar Publishing, pp. 237–257.

### Conference Papers

1. Ivan Košanin, Slaviša Đukanović, Duško Sivčević, Milan Gnjatović (2024) Optimization of Urban Traffic Safety on the Example of the City of Belgrade, in Proc. of the Third Scientific Conference on Urban Security And Urban Development (UBUR 2024), Belgrade, (abstract, in Serbian).
2. Milan Gnjatović, Duško Sivčević, Nemanja Maček, Dušan Joksimović, Vojkan Nikolić, Aleksandar Miljković (2021) Lemmatization as a Cognitive Decision Task: Similarity-Based Lemmatization of Serbian with a Minimal Vocabulary, in Proc. of the 12th IEEE International Conference on Cognitive Infocommunications (CogInfoCom), Online on MaxWhere 3D Web, pp. 49–52.
3. Milan Gnjatović, Vojkan Nikolić, Dušan Joksimović, Dejan Vidojević, Nemanja Maček, Zlatogor Minchev, Mitko Bogdanoski (2021) Yet Another Classification: An Overview of COVID-19-Related Research in the Field of Natural Language Processing, in Proc. of the First International Scientific Conference Covid-19 and Challenges of the Business World, Belgrade, pp. 97–106.
4. Vojkan Nikolić, Milan Gnjatović, Dušan Joksimović, Dejan Vidojević, Srdjan Nogo, Slobodan Nedeljković, Duško Sivčević (2021) How Far are We from Automatic COVID-19 Diagnostic Analysis?, in Proc. of the First International Scientific Conference Covid-19 and Challenges of the Business World, Belgrade, pp. 107–112.
5. Aleksandar Miljković, Aleksa Maksimović, Milan Gnjatović, Slobodan Nedeljković, Duško Sivčević, Slaviša Đukanović, Milan Gligorijević, Vojkan Nikolić (2021) Media Representation and Mobility Trends under COVID-19 Pandemic Conditions: A Pilot Research, in Proc. of the First International Scientific Conference Covid-19 and Challenges of the Business World, Belgrade, pp. 89–96.
6. Milan Gnjatović, Nemanja Maček (2020) An Entropy Minimization Approach to Dialogue Segmentation, in Proc. of the 11th IEEE International Conference on Cognitive Infocommunications (CogInfoCom), Online on MaxWhere 3D Web, pp. 27–32.
7. Milan Gnjatović, Vojkan Nikolić, Dušan Joksimović, Nemanja Maček, Nebojša Budimirović (2020) An approach to human activity clustering using inertial measurement data, in Proc. of the Archibald Reiss Days 2020, vol. 10, pp. 547–555.
8. Milan Gnjatović, Nemanja Maček, Saša Adamović (2019) A Non-Connectionist Two-Stage Approach to Digit Recognition in the Presence of Noise, in Proc. of the 10th IEEE International Conference on Cognitive Infocommunications (CogInfoCom), Naples, Italy.
9. Milan Gnjatović, Jovica Tasevski, Branislav Borovac, Nemanja Maček (2018) An Entropy-Based Approach to Automatic Detection of Critical Changes in Human-Machine Interaction, in Proc. of the 9th IEEE International Conference on Cognitive Infocommunications (CogInfoCom), pp. 175–178, Budapest, Hungary.
10. Srđan Savić, Milan Gnjatović, Dragiša Mišković, Branislav Borovac (2018) Representational Learning in Conversational Agents, in Proc. of the 4th International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2018), Palić, Serbia, June 2018.
11. Vlado Delić, Branislav Borovac, Milan Gnjatović, Jovica Tasevski, Dragiša Mišković, Darko Pekar, Milan Sečujski (2018) Toward More Expressive Speech Communication in Human-Robot Interaction, in Proc. of the 3rd International Conference on Interactive Collaborative Robotics (ICR 2018), pp. 44–51, Leipzig, Germany.

12. Nemanja Maček, Igor Franc, Milan Gnjatović, Branimir Trenkić, Mitko Bogdanoski, Aca Aleksić (2018) Biometric cryptosystems — approaches to biometric key-binding and key-generation, in Proc. of the 10th International Conference on Business Information Security (BISEC 2018), Belgrade, October 2018.
13. Nemanja Maček, Igor Franc, Milan Gnjatović, Branimir Trenkić, Zlatogor Minchev (2018) Security evaluation of cancelable biometrics, in Proc. of the 10th International Conference on Business Information Security (BISEC 2018), Belgrade, October 2018.
14. Nemanja Maček, Igor Franc, Milan Gnjatović, Branimir Trenkić, Mitko Bogdanoski, Aca Aleksić (2018) Can support vectors detect exploits?, in Proc. of the 10th International Conference on Business Information Security (BISEC 2018), Belgrade, October 2018.
15. Branislav Borovac, Mirko Raković, Milan Gnjatović, Milutin Nikolić, Vlado Delić, Marko Penčić, Srđan Savić, Jovica Tasevski, Dragiša Mišković, Aleksandra Mikov, Rastislava Krasnik (2018) Development and Testing of Humanoid Robot MARKO – An Assistant in Therapy for Children, XIV International SAUM Conference on Systems, Automatic Control and Measurements, Niš, Serbia.
16. Milan Gnjatović, Jovica Tasevski, Dragiša Mišković, Srđan Savić, Branislav Borovac, Aleksandra Mikov, Rastislava Krasnik (2017) Pilot Corpus of Child-Robot Interaction in Therapeutic Settings, in Proc. of the 8th IEEE International Conference on Cognitive Infocommunications (CogInfoCom), Debrecen, Hungary, September 2017, pp. 253–7.
17. Srđan Savić, Milan Gnjatović, Dragiša Mišković, Jovica Tasevski, Nemanja Maček (2017) Cognitively-Inspired Symbolic Framework for Knowledge Representation, in Proc. of the 8th IEEE International Conference on Cognitive Infocommunications (CogInfoCom), Debrecen, Hungary, September 2017, pp. 315–320.
18. Milan Gnjatović, Dragiša Mišković, Srđan Savić, Branislav Borovac, Nemanja Maček, Branimir Trenkić (2017) A Novel Modular Architecture for Conversational Robotic Agents, in Proc. of the 4th International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2017), Kladovo, Serbia, June 2017.
19. Marko Penčić, Maja Čavić, Srđan Savić, Milan Gnjatović, Branislav Borovac, Zhenli Lu (2017) Social Humanoid Robot SARA: Development and Dilemmas, in Proc. of the 4th International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2017), Kladovo, Serbia, June 2017.
20. Milan Gnjatović, Nemanja Maček, Zlatogor Minchev (2017) Methodological Pitfalls of Automatic Speech Recognition, in Proc. of the 9th International Conference on Business Information Security (BISEC'2017), Belgrade, October 2017, pp. 54-57.
21. Nemanja Maček, Milan Milosavljević, Igor Franc, Mitko Bogdanoski, Milan Gnjatović, Branimir Trenkić (2017) Secure Modular Authentication Systems Based on Conventional XOR Biometrics, in Proc. of the 9th International Conference on Business Information Security (BISEC'2017), Belgrade, October 2017, pp. 27-32.
22. Nemanja Maček, Milan Milosavljević, Igor Franc, Zlatogor Minchev, Milan Gnjatović, Branimir Trenkić (2017) Secure Mobile Banking Biometric Authentication, in Proc. of the 9th International Conference on Business Information Security (BISEC'2017), Belgrade, October 2017, pp. 41-43.
23. Igor Franc, Nemanja Maček, Milan Gnjatović, Branimir Trenkić, Mitko Bogdanoski, Dragan Đokić (2017) Secure Machine Learning Classifiers with Input Hashing Re-Weight Strategy, in Proc. of the 9th International Conference on Business Information Security (BISEC'2017), Belgrade, October 2017, pp. 82-85.
24. Dragiša Mišković, Milan Gnjatović, Nikša Jakovljević, Vlado Delić (2017) Realization of the Audio Library of the University of Novi Sad (in Serbian), in Proc. of the 11th Conference Digital Speech and Image Processing, November 2017, Novi Sad, Serbia.
25. Milan Gnjatović, Dragiša Mišković (2015) Beyond Statistical Approaches to Context-Dependent Speech Recognition, In Proc. of the Third International Acoustics and Audio Engineering Conference, TAK-TONS 2015, Novi Sad, Serbia, pp. 40-41.



26. Milan Gnjatović (2014) Changing Concepts of Machine Dialogue Management, in Proc. of the 5th IEEE International Conference on Cognitive Infocommunications (CogInfoCom 2014), Vietri sul Mare, Italy, pp. 367–372.
27. Milan Gnjatović, Vlado Delić (2014) End-User Design of Emotion-Adaptive Dialogue Strategies for Therapeutic Purposes, Recent Advances of Neural Network Models and Applications. Smart Innovation, Systems and Technologies, vol. 26, pp. 371–378, Springer International Publishing.
28. Jovica Tasevski, Dragiša Mišković, Milan Gnjatović, Branislav Borovac (2014) Application of Human-Machine Interaction Model for Facial Expression of Humanoid Robot MARKO, Zbornik radova sa 10. konferencije Digitalna obrada govora i slike, DOGS 2014, pp. 35–38, Novi Sad, Serbia.
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## PhD Thesis Supervision

- Ivan Košanin, An Approach to Traffic Accident Clustering in Urban Areas, PhD, Computer Science, University of Criminal Investigation and Police Studies in Belgrade, 2024.
- Jovica Tasevski, Adaptive Behavioural Strategies in Human-Machine Interaction in the Context of Medical Therapy, PhD, Mechatronics, Robotics and Automation, Faculty of Technical Sciences, University of Novi Sad, 2018.
- Srđan Savić, Cognitively Inspired Computational Memory Model with Applications in Robotics, PhD, Mechatronics, Robotics and Automation, Faculty of Technical Sciences, University of Novi Sad, 2018.
- Dragiša Mišković, Context-Dependent Speech Recognition in Human-Machine Interaction, PhD, Electrical Engineering, Telecommunications, co-advised by Vlado Delić, Faculty of Technical Sciences, University of Novi Sad, 2017.