

PERSONAL INFORMATION



Almir Karabegović

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Gender Male | Date of birth 21/05/1974 | Nationality Bosna and Herzegovina

JOB POSITION

Full Professor with University of Sarajevo, Faculty of Electrical Engineering

EMPLOYMENT HISTORY

- 2021 - **Full Professor**
University of Sarajevo – Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina.
<http://www.etf.unsa.ba/>
- 2002 - **Technical Director**
GAUSS – GeoInformation Systems, Tuzla, Bosnia and Herzegovina, <http://www.gauss.ba/>
- 2015-2021 **Associate Professor**
University of Sarajevo – Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina.
- 2010-2015 **Assistant Professor**
University of Sarajevo – Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina.
- 2006-2010 **Senior Assistant**
University of Sarajevo – Faculty of Civil Engineering, Sarajevo, Bosnia and Herzegovina
- 1999-2002 **Software Engineer**
GAUSS – GeoInformation Systems, Tuzla, Bosnia and Herzegovina, <http://www.gauss.ba/>

EDUCATIONAL BACKGROUND

- 2005-2009 **Doctor of Science** EQF level 8 | VIII
University of Sarajevo – Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina.
▪ Computing and Informatics.
- 2003-2005 **Master of Science in Electrical Engineering** EQF level 8 | VII.2
University of Sarajevo – Faculty of Electrical Engineering, Sarajevo, Bosnia and Herzegovina.
▪ Computing and Informatics.
- 1993-2000 **Bachelor of Science (honours) in Electrical Engineering** EQF level 7 | VII.1
University of Tuzla, Faculty of Electrical Engineering, Tuzla, Bosnia and Herzegovina.
▪ Electric Power Engineering.

PERSONAL SKILLS

Mother tongue(s) Bosnian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Upišite naziv sertifikata o znanju jezika. Unesite nivo, ako je poznat.

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills ▪ good communication skills, presentation, interview skills.

Organisational / managerial skills ▪ Project management, Education course preparing and training.

Computer skills ▪ Oracle Database, MapInfo Pro, QGIS, GeoServer, PostgreSQL, Microsoft SQL Server, Java, C++, MS Visual Studio.NET, Matlab, Autodesk AutoCAD Corel, Adobe PhotoShop, MS Project, MS Visio.

ADDITIONAL INFORMATION

- Projects
- (2021-2022) Upgrade of the expert system for monitoring and preventing the spread of COVID-19, Federal Ministry of Education and Science, as Member of Research Team
 - (2019-2020) Business driven problem-based learning for academic excellence in geoinformatics – GEOBIZ, Erasmus+ Programme of the European Union, as Task group leader for Geoinformatics courses design
 - (2019-2020) Interactive Narrative Design for Complexity Representations, European Cooperation in Science and Technology (COST), as Management Committee Member
 - (2019-2020) European network for Web-centred linguistic data science, European Cooperation in Science and Technology (COST), as Management Committee Member
 - (2020) Geoinformation system of public streetlight for Canton Sarajevo, Ministry of Communal Economy and Infrastructure as Geoinformation System Expert
 - (2020-2021) Project to establish an Expert System for Monitoring and Preventing the Spread of COVID-19 virus - Epidemiological Location Intelligence System (ELIS), Academy of Sciences and Arts of Bosnia and Herzegovina, Committee for Microbiology and Related Disciplines of the Department of Medical Sciences as Member of Research Team
 - (2019) Web-based Geographic Information System for City Zenica as System Architect
 - (2018) Training and education of the employees in the land administration sector as integral parts of Real Estate Registration Project in for Federal Administration for Geodetic and Real Property Affairs, financed by World Bank members, International Bank for Reconstruction and Development (IBRD) and International Development Association (IDA), as Consultant and Lecturer
 - (2018) Underground Utility Cadaster Information System Development, financed by Government of Tuzla Canton, as System Architect
 - (2018) Creation of assessment of the potential for the application of high-efficiency cogeneration and efficient district heating and cooling for Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in Bosnia and Herzegovina, financed by the German Ministry for Economic Cooperation and Development (BMZ), as IT/GIS-Expert
 - (2018) Development of a web-based solution for biomass potential mapping in as part of GIZ project "Promotion of Renewable Energy (RE) in Bosnia and Herzegovina", financed by the German Ministry for Economic Cooperation and Development (BMZ), in cooperation with the Ministry of Foreign Trade and Economic Relations BiH (MOFTER), as IT-Expert
 - (2017) Geo Information System Analysis and Design for Company for the production and transport of gas "BH-Gas" d.o.o. Sarajevo, as System Architect

- (2017) Digital Archive IT System for FBiH as part of project "Maps for National Development and European Integration" for Federal Administration for Geodetic and Real Property Affairs, funding by Government of Norway (Norwegian Mapping Authority) as System Architect
- (2017) WebGIS application with data migration and centralization for municipality Kalesija, as System Architect
- (2017) WebGIS application with data migration and centralization for municipality Hadzici, including capturing and storing street and houses level of data, as System Architect
- (2016) Upgrading of Infrastructure and Implementation of Web-based Information System for Analysis and Visualization of Spatial Data for Institute for Planning and Development Sarajevo Canton as System Architect
- (2016) Advancement of Information system with Geographic Information System for Sarajevo International Airport as System Architect
- (2016-2019) Trans-Domain COST Action TD1403 (European Cooperation in Science and Technology) - Big Data Era in Sky and Earth Observation (BIG-SKY-EARTH) as Management Committee Member
- European Union (2016-2019) Information and Communication Technologies COST Action IC1406 (European Cooperation in Science and Technology) - High-Performance Modelling and Simulation for Big Data Applications (cHiPSet) as Management Committee Member
- (2015) Services of Harmonization Data on Cadastre and Land Book, as part of Real Estate Registration Project, financed by International Development Association (IDA), and run by Federal Administration for Geodetic and Real Property Affairs in name of and Federation of as System Architect
- (2014) Implementation of web based geographic information system for analyze and visualization spatial data from statistical surveys and population census in FBiH – existing system analyze and design of new system than implementation of infrastructure and new system in Institute for Statistics of FBiH as System Architect
- (2014) Strategy of development official cartography in Federation of for Federal Administration for Geodetic and Real Property Affaires as Consultant for Spatial Databases and WebGIS
- (2014) Strengthening capacity through implementation of GIS methodology of work for Ministry of Construction, Urban Development and Environmental Protection Una - Sana Canton, funding by Swiss Cooperation Office at the Swiss Embassy in BiH as Analyst of Business processes
- (2013) Implementation of infrastructure for spatial information system, data migration (ETL) and GeoPortal for 3D spatial data presentation for City Mostar, as System Architect
- (2012 project duration 7 months) The vectorization of boundaries of spatial units, updating of boundaries of spatial units, establishing and updating of streets and house numbers, creating the DBRSU (database of register of spatial units), production, print preparation and printing the drafts of the statistical and enumeration areas (census circles) and production, print preparation and printing the general maps; for Federal office of statistics, funding by Federal office of statistics as Mobile GIS/Desktop GIS/Spatial Database Application Development Manager
- (2011-2013) System Installation, Data Migration, and Maintenance for Cadastre of All Municipalities the Federation of Bosnia and Herzegovina, for Federal Administration for Geodetic and Real Property Affaires, funding by Federal Ministry of Justice, Land Registration Unit (LRU) and World Bank as Project Coordinator for Information System Integration Group
- (2011) On line Interactive Map in Advanced GIS and Web-based Database Technologies with Layers of Various Maps and Data Relevant for Businesses and Investors for Foreign Investment Promotion Agency of (FIPA), funding by International Finance Corporation (IFC), a member of the World Bank Group, as System Analyst
- (2011) Joint Risk Analysis Center (JRAC) Information Management, Analysis and Planning System; consisting of components: distributed information system for JRAC, the risk analysis/business intelligence system and geographic information system for JRAC (BiH Ministry of Security, Indirect Taxation Authority, Border Police, Administration for Plant Health Protection, Veterinary Office And Service for Foreigners' Affairs), funding United Nations Development Programme (UNDP), as Data/GIS/BI/Risk/Business Development Group Manager
- (2010) Implementation of Integrated Information System in 36 municipalities for USAID GAP (Governance Accountability Project) as Expert Consultant for Information Systems
- (2009) 3D Data Modeling and preparation for LBS for BH Telecom, as Database Designer
- (2008) Design and Implementation of Central Database Management System for Sarajevogas, as System Analyst
- (2006-2007) Project of Physical and Spatial Plan of Federation for Federal Ministry of Spatial Planning as Expert Consultant for Spatial Information Systems
- (2007) Education in GPS technology and using in forestry as Project Manager and Trainer for Federal Ministry of Forestry and PIU (Project Implementation Unit) from World Bank

- (2007-2009) Software Implementing Method of Forest Management Planning in Kosovo as Spatial Database Expert for NORSKOG /Norwegian Forestry Group and Kosovo Forest Agency
- (2006) Development of Spatial Information System for Federal Ministry of Spatial Planning as Project Manager
- (2006) Implementation of Information systems in Municipalities Tuzla, Mostar, Gradacac, Kalesija, Zivinice, Bugojno, Foca and Buzin for The Governance Accountability Project GAP/USAID/SIDA as Project Manager
- (2003) Project of making software system for designing optical network for broadcast services as Project Manager for BH Telecom
- (2003) Project of developing application for Forest Inventory as System Analyst and Developer – BH Sume – Forest Enterprises of Bosnia and Herzegovina
- (2002) Project of transforming of medium voltage energetic network data of Tuzla town into GIS form as Project Manager for Enterprise for Distribution of Electrical Energy Tuzla, Public Electric Power Company of Bosnia and Herzegovina
- (2002) Education, projecting and planning in forestry as Project Manager - Faculty of Forestry Sarajevo, Faculty of Forestry Banja Luka
- (2002-2005) Project of GIS education for faculties of Forestry, Agriculture and Veterinary Medicine in Bosnia and Herzegovina, Serbia, Monte Negro, and Macedonia as Consultant and Trainer for NORAGRIC, Centre for International Environment and Development Studies and Norwegian institute of land inventory
- (2001-2002) Project of GIS education for Forest Enterprises as Trainer for DFS, Terramatics, IFUS for GTZ, German Technical Co-operation
- (2001) Creating application for making projects, planning and documentation of broad wide network as Software Development Manager for BH Telecom
- (2000) Creating application for Municipal Service of Spatial Design as Software Development Manager for Canadian Urban Institute

Publications, Supervisions and Reviews

- **Publications:** 6 scientific books, 7 book chapter, 8 refereed journal publications, 40 conference papers.
- **Number of citations:** 335 (Google Scholar), 184 (Scopus), 85 (Web of Science Core Collection).
- **Supervisions completed:** 1 PhD, 40 MSc, 35 BSc.
- **Reviews:** journals: 32, international conference: 35, books: 2.

Technical Review

- ISPRS International Journal of Geo-Information (WOS)
- Journal: Energies (WOS)
- Journal Applied Sciences (WOS)
- International Journal of Medical Informatics (WOS)
- Journal: Remote Sensing (WOS)
- Journal: Sustainability (WOS)
- Journal of King Saud University - Computer and Information Sciences (WOS)
- Journal: Applied Computing and Informatics (WOS)
- Journal: Land (WOS)
- Journal: Remote Sensing (WOS)
- Journal: Smart Cities (Scopus)
- Journal: Asian Journal of Research in Computer Science (Scopus)
- Journal: Geodetski list (WOS)
- Journal: BH Elektrotehnika (INSPEC)
- International Scientific Conference "Science and Traffic Development" – ZIRP, Zadar, Hrvatska, 2020
- ACM International Conference on Computer Science and Application Engineering, Sanya, China, 2019
- IEEE International Conference on Cyber-enabled Distributed Computing and Knowledge Discovery, Chongqing, China, 2018
- IEEE International Conference on Information, Communication and Automation Technologies, ICAT, Sarajevo, 2017

Member of Editorial Board

- 13th annual Days of BHAAAS in Bosnia and Herzegovina, Technical Section symposia "Data Science and Geographic Information Systems", Sarajevo 2022
- International Scientific Conference "Science and Traffic Development" – ZIRP, Zadar 2021
- 12th annual Days of BHAAAS in Bosnia and Herzegovina, Technical Section symposia "Trends and Innovation in Geographic Information Systems", Mostar 2021
- International Research and Practice Conference „Digital Transformation in Industry: Trends, Management, Strategies“, Ekaterinburg, Russia 2020
- International Scientific Conference "Science and Traffic Development" – ZIRP, Zadar 2020
- XXVI International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo 2017
- XXV International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo 2015.

Membership in Professional Societies

- Institute of Electrical and Electronics Engineers (IEEE) **Senior Member**.
- IEEE Computer Society
- IEEE Computational Intelligence Society
- IEEE Geoscience & Remote Sensing Society
- Association for Computing Machinery (ACM)
- SIGSPATIAL: The ACM Special Interest Group on Spatial Information
- Association for Information Systems (AIS)
- SIGGIS: The AIS Special Interest Group on Geographic Information Systems

Research Profiles

- ORCID: <https://orcid.org/0000-0002-5716-7528>
- ResearchGate: <https://www.researchgate.net/profile/Almir-Karabegovic>
- Google scholar: <https://scholar.google.com/citations?user=O4QbbU8AAAAJ&hl=en&oi=ao>

Conference Organization

- 13th annual Days of BHAAAS in Bosnia and Herzegovina, Technical Section symposia "Data Science and Geographic Information Systems", Sarajevo 2022
- International Scientific Conference "Science and Traffic Development" – ZIRP, Zadar 2021
- 12th annual Days of BHAAAS in Bosnia and Herzegovina, Technical Section symposia "Trends and Innovation in Geographic Information Systems", Mostar 2021
- International Research and Practice Conference „Digital Transformation in Industry: Trends, Management, Strategies“, Ekaterinburg, Russia 2020
- International Scientific Conference "Science and Traffic Development" – ZIRP, Zadar 2020
- XXVI International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo 2017
- XXV International Conference on Information, Communication and Automation Technologies (ICAT), Sarajevo 2015.

REFERENCES

Monographies and Scientific Books

- COVID-19 pandemic in Bosnia and Herzegovina: March-June 2020, M. Hukic, M. Ponjavic, F. Serdarevic, E. Tahirovic, A. Karabegovic, E. Ferhatbegovic, T. Goletic, M. Travar, S. Uzunovic, A. Pilav, A. Joguncic, M. Mulic, S. Karakas, N. Avdic, Z. Mulabdic, G. Pavic, M. Bico, I. Vasilj, D. Mamic, S. Huseinagic, A. Nikolic, D. Lazic, Academy of Sciences and Arts of Bosnia and Herzegovina (2020), Special Editions, ISBN: 978-9926-410-58-2 <https://doi.org/10.5644/PI2020.190.00>
- Pandemija COVID-19 u Bosni i Hercegovini: mart/ozujak-juni/lipanj 2020, M. Hukic, M. Ponjavic, F. Serdarevic, E. Tahirovic, A. Karabegovic, E. Ferhatbegovic, T. Goletic, M. Travar, S. Uzunovic, A. Pilav, A. Joguncic, M. Mulic, S. Karakas, N. Avdic, Z. Mulabdic, G. Pavic, M. Bico, I. Vasilj, D. Mamic, S. Huseinagic, A. Nikolic, D. Lazic, Akademija nauka i umjetnosti Bosne i Hercegovine (2020), Posebno izdanje, ISBN: 978-9926-410-57-5 <https://doi.org/10.5644/PI2020.189.00>
- Sistemi za upravljanje geoinformacijama, M. Ponjavic, A. Karabegovic, S. Omanovic, E. Buza, I. Besic, University of Tuzla, (2020), Academic Course Book, ISBN: 978-9958-609-80-0
- Geoinformation Management: Concepts and Methods, M. Ponjavic, A. Karabegovic, and E. Ferhatbegovic, University of Tuzla, (2020), Academic Course Book, ISBN: 978-9958-609-79-4
- Upravljanje geoinformacijama: koncepti i metode, M. Ponjavic, A. Karabegovic, and E. Ferhatbegovic, University of Tuzla, (2019), Academic Course Book, ISBN: 978-9958-609-78-7
- Fuzzy logika u geoinformatici, (book: Fuzzy Logic in Geoinformatic), Z. Avdagic, A. Karabegovic, (2011), University of Sarajevo, Academic Course Book, ISBN: 978-9958-629-42-6

Book Chapters

- Application of GIS Technologies in Sustainable Land Management at Local Level. Čustović H., Ljuša M., Taletović J., Ponjavić M., Karabegović A., In: Ademović N., Mujčić E., Akšamija Z., Kevrić J., Avdaković S., Volić I. (eds) Advanced Technologies, Systems, and Applications VI. IAT 2021. Lecture Notes in Networks and Systems, vol 316. Springer, Cham. https://doi.org/10.1007/978-3-030-90055-7_57
- Using Satellite Data for Assessing the Land Use and Land Cover Change in Bosnia and Herzegovina. Ljuša M., Čustović H., Taletović J., Ponjavić M., Karabegović A., In: Ademović N., Mujčić E., Akšamija Z., Kevrić J., Avdaković S., Volić I. (eds) Advanced Technologies, Systems, and Applications VI. IAT 2021. Lecture Notes in Networks and Systems, vol 316. Springer, Cham. https://doi.org/10.1007/978-3-030-90055-7_56
- Biomass Potential Monitoring System as a Tool for Exchange and Comparing Findings from Different Sectoral Studies, M. Ponjavic, A. Karabegovic, S. Stanojevic, S. Celebicanin, In: Avdaković S., Volić I., Mujčić A., Uzunović T., Mujezinović A. (eds) Advanced Technologies, Systems, and Applications V. IAT 2020. Lecture Notes in Networks and Systems, vol 142. Springer, Cham. https://doi.org/10.1007/978-3-030-54765-3_4
- A Rule Based Events Correlation Algorithm for Process Mining. A. Djedovic, A. Karabegovic, E. Zunic, D. Alic, In: Avdakovic S., Mujcic A., Mujezinovic A., Uzunovic T., Volic I. (eds) Advanced Technologies, Systems, and Applications IV, 2019, Lecture Notes in Networks and Systems, vol 83. Springer, Cham. https://doi.org/10.1007/978-3-030-24986-1_47
- Geoportal as Interface for Data Warehouse and Business Intelligence Information System, A. Karabegovic, M. Ponjavic, Advances in Business ICT, Series: Advances in Intelligent Systems and Computing, Volume 257, 2014, pp 27-40, Springer International Publishing, Berlin (GERMANY), ISBN 978-3-319-03676-2
- Spatial Component in Business Intelligence System for Advanced Threat and Risk Analysis, M. Ponjavic, A. Karabegovic, Advances in Business ICT, Series: Advances in Intelligent Systems and Computing, Volume 257, 2014, pp 109-121, Springer International Publishing, Berlin (GERMANY), ISBN 978-3-319-03676-2
- Fuzzy Logic and Genetic Algorithm Application for Multi Criteria Land Valorisation in Spatial Planning, Z. Avdagic, A. Karabegovic, M. Ponjavic, Artificial Intelligence Techniques for Computer Graphics, Studies in Computational Intelligence, Springer-Verlag GmbH, 2008, ISBN: 978-3-540-85127-1

Refereed Journal Publications

- Epidemic Location Intelligence System as Response to the COVID-19 Outbreak in Bosnia and Herzegovina, A. Karabegovic, M. Ponjavic, and M. Hukic. 2021. Journal of Applied System Innovation 4, no. 4: 79. <https://doi.org/10.3390/asi4040079> (Index: Web of Science, ESCI)
- SARS-CoV-2 virus outbreak and the emergency public health measures in Bosnia and Herzegovina: January – July, 2020. Bosnian Journal of Basic Medical Sciences, M. Hukic, M. Ponjavic, E. Tahirovic, A. Karabegovic, E. Ferhatbegovic, M., Travar, and F. Serdarevic, 2021. <https://doi.org/10.17305/bjbms.2020.5081> . (Index: Web of Science, SCIE, MEDLINE)
- Performance indicators for poultry manure supply model analysis, M. Ponjavic, A. Karabegovic, S. Celebicanin, M. Ljusa, Scientific Bulletin Series D, Vol. 82, Iss. 4, 2020, (Index: Scopus)
- Upgrading the capability of an online biomass atlas by developing a functional extension based on spatial interaction model, M. Ponjavic, A. Karabegovic, H. Custovic & J. Hivzievendic, International Journal of Sustainable Energy, <https://doi.org/10.1080/14786451.2020.1845169> (Index: Web of Science, ESCI)
- Spatio-temporal data visualization for monitoring of control measures in the prevention of the spread of COVID-19 in Bosnia and Herzegovina, Ponjavic, M., Karabegovic, A., Ferhatbegovic, E., Tahirovic, E., Uzunovic, S., Travar, M., Pilav, A., Mulic, M., Karakas, S., Avdic, N., Mulabdic, Z., Pavic, G., Bico, M., Vasilj, I., Mamic, D., & Hukic, M., Medicinski glasnik, 17(2), 2020. <https://doi.org/10.17392/1215-20> (Index: Scopus, MEDLINE)
- Location Intelligence for Gas Transportation Infrastructure, M. Ponjavic, A. Karabegovic, S. Omanovic, E. Buza, and I. Besic, Problemy Zarządzania - Management Issues, 17(5), 40–55, 2019. <https://doi.org/10.7172/1644-9584.85.3> (Index: Web of Science, ESCI)
- Location Intelligence Systems and Data Integration for Airport Capacities Planning, M. Ponjavic, and A. Karabegovic, Computers 2019, 8, 13. <https://doi.org/10.3390/computers8010013> (Index: Web of Science, ESCI)
- Innovative Approach in Modeling Business Processes with a Focus on Improving the Allocation of Human Resources, A. Djedovic, A. Karabegovic, Z. Avdagic, and S. Omanovic, Mathematical Problems in Engineering, vol. 2018, Article ID 9838560, 2018. <https://doi.org/10.1155/2018/9838560> (Index: Web of Science, CC, Q3)

International Conferences

- Online Atlas as Decision Support System for Biomass Potential Assessment, A. Karabegovic, and M. Ponjavic, 19th International Symposium INFOTEH-JAHORINA, 2020, doi: 10.1109/INFOTEH48170.2020.9066339 (Index: IEEE Xplore)
- E-Learning Remote Laboratory Station for Computer Aided Design, I. Besic, K. Hodzic and A. Karabegovic, International Symposium ELMAR, Zadar, Croatia, 2019, pp. 127-130. doi: 10.1109/ELMAR.2019.8918910 (Index: IEEE Xplore)
- Workstation Cellular Framework for Computer Aided Design Interactive Online Courses, I. Besic, A. Karabegovic and M. Ponjavic, International Conference on Software, Telecommunications and Computer Networks (SoftCOM), Split, Croatia, 2019, pp. 1-5. doi: 10.23919/SOFTCOM.2019.8903795 (Index: IEEE Xplore)
- Location Intelligence in Cogenerated Heating Potential Data, A. Karabegovic, M. Ponjavic, N. Duic, T. Novosel, IEEE Proceedings of the 2019 Federated Conference on Computer Science and Information Systems, Annals of Computer Science and Information Systems, vl. 18, 2019, <http://dx.doi.org/10.15439/2019F77> (Index: IEEE Xplore)
- Spatial data integration in heterogeneous information systems' environment, M. Ponjavic, A. Karabegovic, E. Ferhatbegovic and I. Besic, 2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), Opatija, Croatia, 2019, pp. 1559-1564. doi: 10.23919/MIPRO.2019.8756736 (Index: IEEE Xplore)
- Spatial data and processes integration in local governance of Bosnia and Herzegovina, A. Karabegovic, M. Ponjavic, E. Ferhatbegovic, E. Karabegovic, MIPRO 41st International Convention, IEEE Conference in DE-DS - Digital Economy and Digital Society, Opatija (CROATIA), May 2018, Opatija (CROATIA), May 2018 (Index: IEEE Xplore)
- Adoption of BPM systems for process design in a higher education institution, A. Karabegovic, E. Buza, S. Omanovic, A. Kahrovic, MIPRO 41st International Convention, IEEE Conference in CE - Computers in Education, Opatija (CROATIA), May 2018 (Index: IEEE Xplore)
- Optimization of the structures locations using a genetic algorithm in the transmission line design, E. Kalajac, A. Karabegovic, M. Ponjavic, MIPRO 41st International Convention, IEEE Conference in CTS - Computers in Technical Systems, Opatija (CROATIA), May 2018, Opatija (CROATIA), May 2018 (Index: IEEE Xplore)
- Pavement crack detection using Otsu thresholding for image segmentation, A. Akagic, E. Buza, S. Omanovic, A. Karabegovic, MIPRO 41st International Convention, IEEE Conference in CIS - Intelligent Systems, Opatija (CROATIA), May 2018, Opatija (CROATIA), May 2018 (Index: IEEE Xplore)
- A combined process mining for improving business process, A. Djedovic, E. Zunic, A. Karabegovic, International Conference on Smart Systems and Technologies (SST), Osijek (CROATIA), October 2017 (Index: IEEE Xplore)
- Optimization of Business Processes by Automatic Reallocation of Resources using the Genetic Algorithm, A. Djedovic, E. Zunic, Z. Avdagic, A. Karabegovic, XI International Symposium on Telecommunications (BIHTEL), Sarajevo (BOSNIA AND HERZEGOVINA), October 2016 (Index: IEEE Xplore)
- Optimization of the Business Processes via Automatic Integration with the Document Management System, A. Djedovic, E. Zunic, D. Alic, S. Omanovic, A. Karabegovic, International Conference on Smart Systems and Technologies (SST), Osijek (CROATIA), October 2016 (Index: IEEE Xplore)
- Model Business Process Improvement by Statistical Analysis of the Users' Conduct in the Process, A. Djedovic, E. Zunic, A. Karabegovic, International Multidisciplinary Conference on Computer and Energy Science (SpliTech), Split (CROATIA), July 2016 (Index: IEEE Xplore)
- Web Portals for Visualizing and Searching Spatial Data, L. Becirspahic, A. Karabegovic, MIPRO IEEE Croatia Conference, Opatija (CROATIA), May 2015 (Index: IEEE Xplore)
- Spatial data infrastructure in compliance with inspire directive and international standards, Z. Petrovic, A. Karabegovic, M. Ponjavic, 9th International Multidisciplinary Scientific Geo-Conference SGEM, June 2013 (Index: CROSSREF, ISI Web of Knowledge)
- Geoportals in Bosnia and Herzegovina as segments of NSDI, S. Kljucanin, M. Ponjavic, A. Karabegovic, INSPIRE and integrated land & water management scientific workshop, Sibenik (CROATIA), September 2013

- Geoportal as Decision Support System with Spatial Data Warehouse, A. Karabegovic, M. Ponjavic, FedCSIS - Federated Conference on Computer Science and Information Systems, Wroclaw (POLAND), September 2012 (Index: IEEE Xplore)
- Innovation in Business Intelligence Systems: Spatial Component for Advanced Threat and Risk Analysis, M. Ponjavic, A. Karabegovic, FedCSIS - Federated Conference on Computer Science and Information Systems, Wroclaw (POLAND), September 2012 (Index: IEEE Xplore)
- Application of Fuzzy Logic for Location Selection In Regulation Plan, J. Topoljak, Z. Avdagic, A. Karabegovic, 12th International Multidisciplinary Scientific Geo-Conference SGEM 2012. Albena, (Bulgaria) (Index: CROSSREF, ISI Web of Knowledge)
- Fuzzy Clustering in Geospatial Analysis, A. Karabegovic, Z. Avdagic, M. Ponjavic, MIPRO IEEE Croatia Conference, Opatija (CROATIA), May 2011 (Index: IEEE Xplore)
- Pareto-Based Genetic Algorithm in Multi-Objective Geospatial Analysis, M. Ponjavic, A. Karabegovic, MIPRO IEEE Croatia Conference, Opatija (CROATIA), May 2010 (Index: IEEE Xplore)
- Integration and Interoperability of Spatial Data in Spatial Decision Support System Environment, A. Karabegovic, M. Ponjavic, MIPRO IEEE Croatia Conference, Opatija (CROATIA), May 2010 (Index: IEEE Xplore)
- Application of the Pareto-Based Genetic Algorithm in Multi-Objective Location Analysis, M. Ponjavic, A. Karabegovic, 3IA 2010, International Conference on Computer Graphics and Artificial Intelligence, Athens (GREECE), May 2010 (Index: EUROGRAPHICS)
- Application of the Multi-Objective Pareto-Based Genetic Algorithm in Solving Geospatial Optimisation Problems, M. Ponjavic, Z. Avdagic, A. Karabegovic, 9th International Multidisciplinary Scientific Geo-Conference & EXPO SGEM 2009, June 2009 (Index: CROSSREF)
- Applying Fuzzy Logic and Genetic Algorithm for Multi Criteria Land Valorisation, A. Karabegovic, Z. Avdagic, M. Ponjavic, 3IA 2008, International Conference on Computer Graphics and Artificial Intelligence, Athens (GREECE), May 2008 (Index: EUROGRAPHICS)
- Applications of Fuzzy Logic in Geographic Information Systems for Multiple Criteria Decision Making, A. Karabegovic, Z. Avdagic, M. Ponjavic, CORP 2006, 11th International Conference on Urban Planning & Regional Development in the Information Society - Vienna, (AUSTRIA), 2006. (Index: CORP)
- Geographic Information System and Genetic Algorithm Application for Multi-criteria Land Valorisation in Spatial Planning, M. Ponjavic., Z. Avdagic, A. Karabegovic, CORP2006 - Competence Centre of Urban and Regional Planning: 11th International Conference on Urban Planning & Regional Development -Vienna, (AUSTRIA), 2006. (Index: CORP)
- Applying Genetic Algorithm to Land Use Planning Problem of Multicriterial Optimization, M. Ponjavic, Z. Avdagic, A. Karabegovic, ICAT-2005, 20. International Symposium on Information, Communication and Automation Technologies, Faculty of Electrical Engineering –University in Sarajevo, Sarajevo, 2005. (Index: Google Scholar)