Adem Kikaj

Master of Science

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Research Interests

My research focuses on Multi-Criteria Decision-Making, Artificial Intelligence, Data Mining, Machine Learning, Decision Analysis, and their applications. Strong knowledge of computer programming. I am skilled in Java, C, C++, C#, Python, Oxygene, Matlab, R, JavaScript, jQuery, NodeJS, ReactJS, and AngularJS. Strong research background with a Master of Science - M.Sc. focused on Knowledge Technologies from Jožef Stefan International Postgraduate School.

Education

October, 2017 – October 2020
M.Sc. in Information and Communication Technologies, *Jozef Stefan International Postgraduate School*, Ljubljana, Slovenia, *GPA – 10.0*

October, 2013 – October, 2016
B.Sc in Computer Science - **Software Design**, *University of Prizren - Faculty of Computer Science*, Prizren, Kosovo, *GPA – 9.78*

Work Experience

March, 2020 – Current
Jozef Stefan International Postgraduate School, *Ljubljana, Slovenia*, Project Member
Development of an expert system to support decision-making in the monitoring and development of competencies
Responsible for designing and developing REST API and web-based software for the establishment of competencies for individual job positions in the organizations and evaluation of the competencies. Also, participating in the development of the decision-making model that has been incorporated in the web-based software in the final release of the stable version.

February, 2019 – July 2019
Jozef Stefan International Postgraduate School, *Ljubljana, Slovenia*, Project Member
Development of an Expert Decision Support System in the selection of trainings
Designing and developing web-based software for the evaluation of employees and training suggestions to improve the competence quality of a company by using decision-making methodologies.

October, 2017 – Current
Department of Knowledge Technologies, *Ljubljana, Slovenia*, Research group member
EU H2020 project NARSIS (New approach to reactor safety improvements)
Development of a Decision Support Tool for Severe Accident Management (Severa), designing and performing test and validation runs of Severa and contributing to writing the NARSIS Deliverable and other Severa Documentation.

August, 2016 – July 2017
AIO Technology, *Pristina, Kosovo*, Software Developer
Responsible for planning and developing web-based software on various platforms depending on the request, such as Java-based, .NET, and PHP.
Developing UI-based web-scraping tools for populating various relational databases.
Designing and developing web-based software for merchandising (3D graphic).

July, 2015 – October 2016
Probit, *Pristina, Kosovo*, Software Developer
Responsible for the development, testing, and implementation of web-based and android applications.

July, 2013 – **APrint**, *Prizren, Kosovo*, Graphic Designer
February 2014 Brand designer, responsible for brand identification and brand naming for small various business.

Professional Skills

- Java, Spring, SQL, MySQL, PostgreSQL, C#, C/C++, Pascal, Matlab, JavaScript, Python, R, Oxygene, PHP, Laravel.
- Strong knowledge with OpenCV and its application. Developed Chess Robot using OpenCV in Matlab. The platform has been GPU programmed for higher performance. Developing other projects using OpenCV such as, mobile robots finding the shortest path using a single camera.
- Microservices development.
- API development.
- Machine Learning (ML) & Decision Support (DS).
- C1 level of spoken and written English.
- Excellent communication skills gained through my work and studying experience abroad. Very good presentation skills. Speaking in public, to groups, or via electronic media.
- Strong collaboration skills (+5 years of teamwork).
- Good skills at problem-solving and quick improvisations.
- Creative thinking and great graphical skills.
- Basic knowledge in Slovene (gained while living in Slovenia) and German language (gained online in my free time).

Publications

- Bohanec, M., **Kikaj, A.**, Vrbanić, I., Bašič, I., Debelak, K., Štrubelj, L.: Supporting severe accident management in nuclear power plants. ICDSST 2020, 6th International Conference on Decision Support System Technology on Cognitive Decision Support Systems and Technologies, Zaragosa, Spain, 229, 2020.
- Cestnik, B., Batkovic, T., **Kikaj, A.**, Boskov, I., Ogrinc, M., Smerkol, M., Ostrez, A., Janezic, M., Hasani, N., Kaluz, B., Zidansek, A., Abina, A.. Expert system for decision support in selection of education. SDEWES 2019. 14th Conference on Sustainable Development of Energy, Water and Environment Systems, Dubrovnik, Croatia, 2019.
- **Kikaj, A.** and Bohanec, M., 2019. Towards Web-based Decision Modeling Software based on DEX Methodology. In Central European Conference on Information and Intelligent Systems (pp. 333-340). Faculty of Organization and Informatics Varazdin.
- **Kikaj, A.** and Bohanec, M. 2018. Complex Decision Rules in DEX Methodology: jRule Algorithm and Performance Analysis. Proceedings of the 21th International Conference Information Society IS 2018, Volume A, Ljubljana, 17-20.
- Bajrami, X., Dermaku, A., Demaku, N., Maloku, S., **Kikaj, A.** and Kokaj, A., 2016, June. Genetic and Fuzzy logic algorithms for robot path finding. In 2016 5th Mediterranean Conference on Embedded Computing (MECO) (pp. 195-199). IEEE.
- Bajrami, X., Dermaku, A., Likaj, R., Demaku, N., **Kikaj, A.**, Maloku, S. and Kikaj, D., 2016. Trajectory planning and inverse kinematics solver for real biped robot with 10 DOF-s. IFAC-PapersOnLine, 49(29), pp.88-93.
- Dermaku, A., Bajrami, X., Demaku, N., **Kikaj, A.**, Maloku, S., Gashi, B., Sina, S. and Demolli, B., 2016. Educational and school management platform. IFAC-PapersOnLine, 49(29), pp.138-143.

Awards

2017 – 2020	**Ad Futura scholarship for master studies** Public Scholarship, Development, Disability and Maintenance Fund of the Republic of Slovenia

Activities

President of Student Association & Editor	12th Jožef Stefan International Postgraduate School Students' Conference and 14th CMBE day
Organizer & Editor	11th Jožef Stefan International Postgraduate School Students' Conference and 13th CMBE day
Organizer & Reviewer	The 19th Open Conference of the IFIP WG 8.3 on Decision Support Systems (IFIP DSS 2018)