



Azir Aliu



Faculty : **Contemporary Sciences and Technologies**
Position : **Associate Professor**

Personal data

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Languages

- **Albanian**, Native
- **Macedonian**, C2 - Proficient
- **English**, C2 - Proficient
- **Turkish**, A2 - Elementary

Education

- **Jun 2008 - Nov 2011: Ph.D. in Computer Science**
Faculty: Faculty of Mathematics and Natural Sciences- Department Informatics
University "St. Cyril and Methodius", Skopje
Specialty: Artificial Intelligence
Thesis: "Advanced Pattern Recognition Techniques for Digital Mammography"
- **Feb 2005 - Jan 2007: Ms. Electrical Engineering in Computer Engineering**
Faculty: Faculty of Electrical Engineering
University "St. Cyril and Methodius",, Skopje, Republic of Macedonia
Specialty: Computer Science- biomedical informatics
Thesis: "Хиерархиска сегментација на мамографски слики"
- **Sep 1995 - Jan 2001: Electrical and Computer Engineering**
Faculty: Faculty of Electrical Engineering
University "St. Cyril and Methodius", Skopje, Republic of Macedonia
Specialty: Computer Science
Thesis: "Пореалистични симулации на невронски мрежи"

Publications

- Ylber Januzaj, Artan Luma, Azir Aliu, Besnik Selimi, Bujar Raufi.. **WEB DATA SCRAPING TECHNIQUE AND PREPARATION FOR COMPARISON TECHNIQUES BETWEEN DIFFERENT DOCUMENTS..** In *In International Journal on Information Technologies & Security*, pp. № 2 (71-86. IJITS , Bulgaria, 6 / 2019. ISBN 1313-8251.
- Ylber Januzaj, Artan Luma, Azir Aliu, Besnik Selimi, Bujar Raufi, Halil Snopce and Vehbi Ramaj.. **USING DATA MINING TECHNIQUES TO CREATE AN AUTOMATED MODEL THAT MAKES COMPARISONS BETWEEN MARKET DEMANDS AND UNIVERSITY CURRICULA.** In *In The 20th International Workshop on Computer Science and Information Technologies*, pp. 43-46. Scientific Technical Union of Mechanical Engineering, Bulgaria, 9 / 2018. ISBN 978-619-7383-08-9.

- Ylber Januzaj, Artan Luma, Azir Aliu, Besnik Selimi, Bujar Raufi, Halil Snopce and Vehbi Ramaj. **USING DATA MINING TECHNIQUES TO CREATE AN AUTOMATED MODEL THAT MAKES COMPARISONS BETWEEN MARKET DEMANDS AND UNIVERSITY CURRICULA.** . In *In International Scientific Journal Industry 4.0*, pp. 199-202. SCIENTIFIC TECHNICAL UNION OF MECHANICAL ENGINEERING, Bulgaria, 9 / 2018. ISBN 2534-8582.
- Ylber Januzaj, Artan Luma, Besnik Selimi, Azir Aliu, Bujar Raufi and Halil Snopce. **A MODEL FOR AUTOMATED MATCHING BETWEEN JOB MARKET DEMAND AND UNIVERSITY CURRICULA OFFER.** In *SEEU Review*, pp. 188–217. SEEU Review, 5 / 2018. ISBN 1857-8462.
- Ylber Januzaj, Artan Luma, Azir Aliu, Besnik Selimi, Bujar Raufi, Halil Snopce. **The Need for an Automated Model which makes Matching between Job Market Demand and University Curricula.** In *In 15th International Conference on Informatics and Information Technologies*, pp. 148-152. Faculty of Computer Science and Engineering, Mavrovo, Macedonia, 4 / 2018. ISBN 978-608-4699-08.
- Halil Snopce, Sadri Alija, Azir Aliu and Artan Luma. **Optimization of an Execution Time for Parallel Matrix Multiplication by Adding a New Set of Processors on the Array.** In *the 4th International conference on Recent Advances in Pure and Applied Mathematics*. ICRAPAM, Kusadasi, Turkey, 5 / 2017.
- Azir Aliu, Artan Luma and Halil Snopce. **Implementation of the information and communication technology in learning.** In *International Conference on Education in Mathematics, Science & Technology (ICEMST)*, pp. 332-337. ISRES, Bodrum, Turkey, 10 / 2016. ISBN 978-605-66950-3-.
- Artan Luma, Azir Aliu and Sadri Alija. **The reasons why students decide to abandon studies in the Republic of Kosova.** In *International Conference on Research in Education and Science (ICRES)*, pp. 296-300. ISRES, Bodrum, Turkey, 10 / 2016. ISBN 978-605-66950-2-5.
- Azir Aliu, Halil Snopce, Artan Luma. **The impact of the information and communication technology in learning mathematics – The study for the schools in Republic of Macedonia..** In *3rd International Multidisciplinary Scientific Conference on Social Sciences and Arts SGEM* , pp. 1107-1114. STEF92 Technology, Albena, Bulgaria, 8 / 2016. ISBN 978-619-7105-72-8.
- Halil Snopce, Azir Aliu, Artan Luma and Sadri Alija. **Educational challenges in choosing the faculty of studying – case study for the students from Republic of Kosova.** In *3rd International Multidisciplinary Scientific Conference on Social Sciences and Arts SGEM* , pp. 255-262. STEF92 Technology, Albena, Bulgaria, 8 / 2016. ISBN 978-619-7105-72-8.
- Artan Luma, Ylber Januzaj, Besnik Selimi, Azir Aliu, Halil Snopce. **Embedded Identification System Based On Face Recognition.** In *THE IRES 8TH INTERNATIONAL CONFERENCE*, pp. 37-42. London, United Kingdom, 8 / 2015.
- Halil snopce, Azir Aliu. **Some Approaches for the Parallelization of the QR Decomposition of a Matrix.** In *International Journal of mathematical models and methods in applied sciences*, pp. 193-201. International Journal of mathematical models and methods in applied sciences, 4 / 2015. ISBN 1998-0140.
- Halil Snopce, Azir Aliu. **Systolic Approach for QR Decomposition.** In *Lecture notes in Electrical Engineering 343*, pp. 415-425. Springer, Switzerland 2015, 2015. ISBN 978-3-319-15764-1.
- Halil Snopce, Azir Aliu. **Parallelization of the QR Decomposition Method-Systolic Approach.** In *international conference on applied mathematics, computational science and engineering* . AMCSE , Varna, 9 / 2014.
- Halil Snopce, Azir Aliu. **Comparison among performance measures for parallel matrix multiplication algorithms.** In *Research Journal of Applied Sciences, Engineering and Technology (RJASET)*, pp. . 4415-442. RJASET, 8 / 2014.
- Halil Snopce, Azir Aliu. **Some Parallel Aspects of the QR Decomposition Method”, Proceedings of the international conference.** In *Advances on Computer Sciences and Informatics*, pp. 34-40. ACSI, Istanbul, 8 / 2014. ISBN 978-605-86637-1-8.

- Halil Snopce, Azir Aliu. **Latency Analysis in the 2-dimensional Systolic Array for Matrix Multiplication.** In *Proceedings of the 2013 International Conference on Applied Mathematics and Computational Methods (AMCM)*, pp. 172-179. AMCM , Venice, 9 / 2013. ISBN 978-1-61804-208-8.
- Halil Snopce, Azir Aliu. **Analyzing of Some Performance Measures for Parallel Matrix Multiplication.** In *Federated Conference on Computer Science and Informations Systems* , pp. 511 – 514. FeDCSIS , Krakow, 9 / 2013.
- Azir Aliu. **Triple innovation models: Technology Park as an Institution for linking Academia, business sector, and government.** Bansko, 8 / 2013.
- Azir Aliu. **translational neural engineering.** In *International Summer School on Neural Engineering (ISSNE)*. IEEE EMBS, Shanghai, China, 2013.
- Azir Aliu, Zamir Dika. **A step towards the virtual (open) campus, the role of the multimedia communication services.** In *ViCES*. Firenze University Press, Italy, 2012. ISBN 978-88-6655-102-7.
- Azir Aliu, Ana Madevska Bogdanova, Margita Kon Popovska. **Feature extraction and selection of breast cancer on digital mammogram imaging by using support vector machines (SVM).** In *Intelligent Systems* . IS, Ljubljana Slovenia, 2011.
- Azir Aliu. **Pattern Recognition in Mammogram Images.** In *Information Processing Department*. Bulgaria Academy of Sciences , Sofia, 2011.
- Azir ALIU, Margita Kon Popovska. **N dimensional moment invariants based approach for the analysis of mammography images using grid.** In *ICMS*. ICMS, Istanbul, 2010.
- Halil Snopce, Azir ALIU, Ilir Spahiu, Vesna Makasevska. **Methodological aspects of Mathematics using Computer Algebra Systems.** In *EDUCATION*. international conference on Engineering education, 2010.
- Azir ALIU, Stoyan Markov, Ana Madevska Bogdanova, Margita Kon Popovska, Maja Capova Stojcevska. **Image processing for digital mammography.** In *ICT- Inovation Conference*. ICT, Ohrid, 2009.
- Azir Aliu. **Grid Infrastructure and tools for grid-based medical platform. Algorithm for mammogram image contrast enhancement and hierarchical segmentation..** In *Institut for Parallel Processing*. Bulgarian Academy of Science, Sofia, 2009.
- Azir ALIU. **Enhancement and Breast Hierarchical Segmentation on Digital Mammograms.** In *3rd EGGE Forum Scientific Results Obtained Using Grid Technology*. EGGE, Clermond Ferrand, France, 2008.

Work Experience

- **Aug 2017 - Present : Associate Professor**
South East European University, Skopje
Type of business or sector: University
- **Oct 2012 - Present : Director**
SEEUtechPark, Tetovo
Type of business or sector: Technology Park
- **Jul 2012 - Aug 2017: Assistant Professor**
South East European University, Tetovo
Type of business or sector: University (Education and Research)
- **May 2013 - Jul 2017: Advisor to the Prime Minister for Higher Education, Science, innovation and ICT**
Office of the Prime Minister of the Republic of Macedonia, Republic of Macedonia
Type of business or sector: Government of the Republic of Macedonia
- **Sep 2012 - Sep 2013: Vice Dean for Postgraduate Studies**

South East European University, Tetovo
Type of business or sector: University

- **Oct 2003 - Jul 2012: Research and Teaching Assistant**

South East European University, Tetovo, Macedonia
Type of business or sector: University

- **Jun 2009 - Feb 2012: Coordinator of project**

SEEU, Macedonia

Type of business or sector: Research

Main responsibilities: Coordinator at SEEU for Tempus Project "Video Conferencing Educational Services (ViCES)"

Period (2009-2012) agreement number 144650-tempus-2008-IT-JPGR.

- **Jan 2008 - Jan 2011: Coordinator of project**

SEEU, Macedonia

Type of business or sector: Research

Main responsibilities: Coordinator of project "Grid Based eInfrastructure GRID" at SEEU

- **Jan 2007 - Jan 2009: Director of Research center**

South East European University, Tetovo

Type of business or sector: Research

- **Oct 2007 - Nov 2007: • Visiting Researcher**

Bulgarian Academy of Science, Competence in 21 Century BIS-21++, Sofia

Type of business or sector: Research

Main responsibilities: Researcher at "Competence in 21 Century BIS-21++", FP6-2004-ACC-2, Sofia, Bulgaria.

- **Jan 2006 - Jun 2006: Consultant**

Ministry of Education and Science, Skopje

Type of business or sector: Planning and Education Management Information System (EMIS) Project founded by World Bank.

- **Aug 2001 - Sep 2003: Teacher**

Gimnasium "Pance Poposki", Gostivar, Gostivar, Macedonia

Type of business or sector: Secondary School

Main responsibilities: Teacher in Introduction in Informatics with Microsoft Office and Program- ming language