



Besnik Selimi



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

Personal data

Date of birth : **20 February 1981**
E-mail : **b.selimi@seeu.edu.mk**
Address : **CST 305.01, SEEU, Ilindenska bb**

Languages

- **Albanian**, Native
- **French**, C2 - Proficient
- **Macedonian**, C2 - Proficient
- **English**, C2 - Proficient

Education

- **2005 - 2009: Doctor of Computer Sciences**
Joseph Fourier University (Grenoble 1), Grenoble, France
Specialty: Software Testing
Thesis: "Test de logiciels synchrones avec la PLC"
- **2002 - 2004: Master in Software Engineering**
Faculty: Applied Mathematics and Informatics (UFRIMA)
Joseph Fourier University (Grenoble 1), Grenoble, France
Specialty: Distributed Systems and Networks
- **1999 - 2002: Bachelor of Computer Sciences**
Faculty: Applied Mathematics and Informatics (UFRIMA)
Joseph Fourier University (Grenoble 1), Grenoble, France
Specialty: Informatics

Publications

- Memeti, Agon, Imeri, Florinda, Selimi, Besnik. **Empirical analysis of CASE tool impact on the development process in Macedonian IT companies.** In *Journal of Computational Methods in Sciences and Engineering (JCMSE)*, pp. 1-6. IOS Press, 11 / 2019. ISBN 1472-7978.
- Elva Leka, Besnik Selimi, Luis Lamani. **Systematic Literature Review of Blockchain Applications: Smart Contracts.** In *International Conference on Information Technologies (InfoTech 2019)*.. ACM/IEEE, Varna, Bulgaria, 10 / 2019. ISBN 978-1-7281-3275-4.
- Diellza Nagavci Mati ; Jaumin Ajdari ; Bujar Raufi ; Mentor Hamiti ; Besnik Selimi. **A Systematic Mapping Study of Language Features Identification from Large Text Collection.** In *MECO 2019, IEEE*. IEEE, Budva, Montenegro, 6 / 2019. ISBN 978-1-7281-1739-3.
- Nagavci Mati, D., Hamiti, M., Ajdari, J., Raufi, B., Selimi, B.. **Review of Natural Language Processing tasks in**

- Albanian language.** In *3rd International Scientific Conference on Business and Economics, "From Transition to Development: Emerging Challenges and Perspectives.*, pp. 317-323. South East European University, Skopje-Tetovo, 6 / 2019. ISBN 978-608-248-031-2.
- Leka, E., Lamani, L., Selimi, B., Decolli, E.. **Design and Implementation of Smart Contract: A Use Case for Geo-spatial Data Sharing.** In *42nd International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO 2019).* IEEE, Opatija, Croatia, 5 / 2019. ISBN 978-1-5386-9296-7.
 - Januzaj, Ylber; Luma, Artan; Aliu, Azir; Selimi, Besnik; Raufi, Bujar. **WEB DATA SCRAPING TECHNIQUE AND PREPARATION FOR COMPARISON TECHNIQUES BETWEEN DIFFERENT DOCUMENTS.** In *International Journal on Information Technologies & Security (IJITS)*, pp. 71-86. Union of Scientists in Bulgaria, Sofia, Bulgaria, 2019. ISBN 1313-8251.
 - Januzaj, Y., Luma, A., Selimi, B., Raufi, B. **EVALUATION OF MODEL THAT MAKES COMPARISON BETWEEN MARKET DEMANDS AND UNIVERSITY CURRICULA OFFER.** In *International Journal on Information Technologies & Security (IJITS)*, pp. 17-28. Union of Scientists in Bulgaria, Sofia, Bulgaria, 2019. ISBN 1313-8251.
 - Luma, A., Abazi, B., Selimi, B.. **Comparison of Maturity Model frameworks in Information Security and their implementation.** In *International Conference on Engineering Technologies (ICENTE'18)*, pp. 102-104. Konya, Turkey, 10 / 2018. ISBN 978-605-68537-3-9 .
 - Luma, A., Selimi, B., Abazi, B.. **Registration and Authentication Cryptosystem Using the Pentor and UltraPentor Operators.** In *International Conference on Engineering Technologies (ICENTE'18)*, pp. 97-101. Konya, Turkey, 10 / 2018. ISBN 978-605-68537-3-9 .
 - Nagavci, Diellza, Mentor Hamiti, and Besnik Selimi. **Review of Prediction of Disease Trends using Big Data Analytics.** In *International Journal of Advanced Computer Science and Applications (IJACSA) Vol. 9 Issue 8*, pp. 46-50. The Science and Information (SAI) Organization, England, 8 / 2018. ISBN 2158-107X.
 - Dhuratë Hyseni, Betim Cico, Artan Luma, Besnik Selimi, Edona Shemsedini. **Different Methods of Distribution Data in the Cloud - Controlled by IT Security Specialist.** In *7th Mediterranean Conference on Embedded Computing - MECO'2018*, pp. 248-252. IEEE, Budva, Montenegro, 6 / 2018.
 - Ylber Januzaj, Artan Luma, Besnik Selimi, Azir Aliu, Bujar Raufi and Halil Snopçe. **A MODEL FOR AUTOMATED MATCHING BETWEEN JOB MARKET DEMAND AND UNIVERSITY CURRICULA OFFER.** In *SEEU Review, Volume 12, Issue 2*, pp. 188–217. DE GRUYTER OPEN, Warsaw, Poland, 5 / 2018. ISBN 1857-8462.
 - Ylber Januzaj, Artan Luma, Azir Aliu, Besnik Selimi, Bujar Raufi, Halil Snopçe. **The need for an automated model which makes matching between job market demand and University Curricula.** In *15th International Conference on Informatics and Information Technologies.* Faculty of Computer Science and Engineering, Ss Cyril and Methodius University, Mavrovo, Macedonia, 4 / 2018.
 - Dhuratë Hyseni, Besnik Selimi, Artan Luma, Betim Cico. **The Proposed Model to Increase Security of Sensitive Data in Cloud Computing.** In *International Journal of Advanced Computer Science and Applications, Vol.9, No. 2, 2018*, pp. 203-210. The Science and Information (SAI) Organization, England, 2 / 2018. ISBN 2158-107X.
 - Dhuratë Hyseni, Besnik Selimi, Artan Luma, Betim Cico. **Data encryption, partition and distribution strategies for user-controlled security in the cloud.** In *The Journal of Natural and Technical Sciences, 2018, vol XXIII*, pp. 57-79. Academy of Sciences of Albania, Tirana, Albania, 2018. ISBN 2074-0867.
 - Januzaj, Y., Luma, A., Aliu, A., Selimi, B., Raufi, B., Snopçe, H., Ramaj, V.. **USING DATA MINING TECHNIQUES TO CREATE AN AUTOMATED MODEL THAT MAKES COMPARISONS BETWEEN MARKET DEMANDS AND UNIVERSITY CURRICULA.** In *INTERNATIONAL SCIENTIFIC JOURNAL "INDUSTRY 4.0"*, pp. 199-202. Scientific Technical Union of Mechanical Engineering "Industry-4.0", Sofia, Bulgaria, 2018. ISBN 2534-8582.
 - Dhuratë Hyseni, Besnik Selimi, Artan Luma, Betim Cico. **The strategy of cryptography for the proposed model of security in cloud computing.** In *2017 IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)*, pp. 24-28. IEEE, Chennai, India, 9 / 2017. ISBN 978-1-5386-0813-5.
 - Arsim Susuri , Mentor Hamiti, Besnik Selimi, Artan Luma. **Emulating Software and Hardware Faults in a**

- Modified Linux Real-Time Environment.** In *International Journal on Information Technologies & Security*, vol. 9, issue 4, 2017, pp. 87-96. Union of Scientists in Bulgaria, Bulgaria, 2017. ISBN 1313-8251.
- Dhuratë Hyseni, Betim Çiço, and Besnik Selimi. **Conception, Design and Implementation of an Interface for Security in Cloud Controlled by the End User..** In *International Journal on Information Technologies and Security*, pp. 35-44. Union of Scientists in Bulgaria, Bulgaria, 6 / 2016. ISBN 1313-8251.
 - Agon Memeti, Besnik Selimi, Adrian Besimi and Betim Cico. **Coordinating Service Resources: An Architecture for REST Service Collaboration.** In *Proceedings of 7th International Scientific Conference Computer Science 2015*, pp. 280-289. Tirana, Albania, 9 / 2015. ISBN 978-619-167-177-9.
 - Artan Luma, Ylber Januzaj, Besnik Selimi, Azir Aliu And Halil Snopce. **Embedded Identification System Based On Face Recognition.** In *International Conference on Science, Technology and Management*, pp. 37-42. WRL, London, United Kingdom, 8 / 2015. ISBN 978-93-85465-83-3.
 - Ylber Januzaj, Jaumin Ajdari, Besnik Selimi. **DBMS as a Cloud service: Advantages and Disadvantages.** In *Proceedings of the World Conference on Technology, Innovation and Entrepreneurship*, pp. 1851–1859. Elsevier, Istanbul, Turkey, 7 / 2015. ISBN 1877-0428.
 - Agon Memeti, Besnik Selimi, Adrian Besimi, Betim Cico. **A framework for flexible REST services: Decoupling authorization for reduced service dependency.** In *Proceedings of the 4th Mediterranean Conference on Embedded Computing (MECO)*, pp. 51 - 55. IEEE, Budva, Montenegro, 6 / 2015. ISBN 978-1-4799-8999-7.
 - Besnik Selimi and Artan Luma. **Specification of Document Structure and Code Generation for Web Content Management.** In *International Journal of Computer Science Issues*, Vol 12, No 3. IJCSI Publications , 5 / 2015. ISBN 1694-0814.
 - Mentor Hamiti and Besnik Selimi. **Ethical Education of Information Technology Users.** In *International Journal of Computer Science Issues*, Vol 12, No 3. IJCSI Publications, 5 / 2015. ISBN 1694-0814.
 - Artan Luma, Besnik Selimi and Lirim Ameti. **Using Elliptic Curve Encryption and Decryption for Securing Audio Messages.** In *Transactions on Engineering Technologies*. Springer Netherlands, 5 / 2015. ISBN 978-94-017-9803-7.
 - Artan Luma, Besnik Selimi and Satki Ismaili. **A Survey of Factors Affecting the Successful Implementation of Technology in Teaching.** In *International Journal of Applied Mathematics, Electronics and Computers*, pp. 23-26. Advanced Technology and Science, Vol 3, No 1, 2015. ISBN 2147-8228.
 - Agon Memeti, Besnik Selimi, and Betim Çiço. **Integration of Several University E-Services in the Cloud.** In *Proceedings of the 2014 European Modelling Symposium (EMS '14)*, pp. 360-365. IEEE Computer Society, Washington, DC, USA, 10 / 2014. ISBN 978-1-4799-7412-2.
 - Artan Luma, Besnik Selimi and Lirim Ameti. **Audio Message Transmitter Secured Through Elliptical Curve Cryptosystem.** In *International Journal of Applied Mathematics, Electronics and Computers*, pp. 54-58. Advanced Technology and Science, Vol 2, No 4, 2014. ISBN 2147-8228.
 - Virginia Papailiopolou, Besnik Seljimi and Ioannis Parissis. **Automatic Test of Lustre/SCADE Programs.** In *Model-Based Testing for Embedded Systems*, pp. 171-194. CRC Press, Taylor & Francis, 9 / 2011. ISBN 978-1-43-981845-9.
 - (FR) Besnik Seljimi. **PhD Thesis: Test de logiciels synchrone avec la PLC.** Grenoble University, Grenoble, France, 7 / 2009.
 - Virginia Papailiopolou, Besnik Seljimi and Ioannis Parissis. **Revisiting the Steam-Boiler Case Study with Lutess : Modeling for Automatic Test Generation.** In *Proceedings of the 12th European Workshop on Dependable Computing (EWDC 2009)*. Toulouse, France, 5 / 2009.
 - Besnik Seljimi and Ioannis Parissis. **Automatic generation of test data generators for synchronous programs: Lutess V2.** In *Workshop on Domain specific approaches to software test automation: in conjunction with the 6th ESEC/FSE joint meeting (DOSTA '07)*. ACM, New York, NY, USA, 9 / 2007. ISBN 978-1-59593-726-1.

- (FR) Besnik Seljimi and Ioannis Parissis. **Test de logiciels synchrones : apports de la programmation par contraintes**. In *Approches Formelles dans l'Assistance au Développement de Logiciels (AFADL)*. Namur, Belgium, 6 / 2007.
- Besnik Seljimi and Ioannis Parissis. **Using CLP to Automatically Generate Test Sequences for Synchronous Programs with Numeric Inputs and Outputs**. In *Proceedings of the 17th International Symposium on Software Reliability Engineering (ISSRE '06)*. IEEE Computer Society, Washington, DC, USA, 11 / 2006. ISBN 978-0-76-952684-3.
- (FR) Besnik Seljimi, Ioannis Parissis. **Exploitation des contraintes pour la recherche de non-conformités dans Lutess**. In *Project Report (RNTL DANOCOPS)*. France, 9 / 2006.
- (FR) Besnik Seljimi, Ioannis Parissis. **Extension de Lutess aux contraintes numériques**. In *Research Report (RNTL DANOCOPS)*. France, 3 / 2006.
- (FR) Laurence Estrabaut, Besnik Seljimi, Ioannis Parissis. **Architecture de l'environnement Lutess intégrant la programmation logique avec contraintes**. In *Project Report (RNTL DANOCOPS)*. France, 12 / 2005.

Work Experience

- **Jun 2015 - Present : Associate Professor**
Faculty of Contemporary Sciences and Technologies, South East European University
Type of business or sector: Research & Education
- **May 2010 - May 2015: Assistant Professor**
Faculty of Contemporary Sciences and Technologies, South East European University
Type of business or sector: Research & Education
- **Nov 2009 - Apr 2010: Part-time Lecturer**
Faculty of Contemporary Sciences and Technologies, South East European University
Type of business or sector: Research & Education
- **Sep 2007 - Jul 2008: State advisor on Information Technologies**
Ministry of Education and Science - Republic of Macedonia
Type of business or sector: Government
- **Dec 2004 - Jun 2007: Research Engineer**
Laboratoire d'Informatique de Grenoble, Grenoble, France
Type of business or sector: Research
- **Apr 2002 - Nov 2004: Reception**
Hôtel Gallia, Grenoble, France
Type of business or sector: Travel & Accommodation
- **Jan 2004 - Aug 2004: Project management (internship)**
Centre Technique du Papier, Grenoble, France
Type of business or sector: Paper Industry
Main responsibilities: Specification and implementation of paper surface analysis software
- **Feb 2003 - Aug 2003: Research internship**
Laboratoire d'Informatique de Grenoble, Grenoble, France
Type of business or sector: Research
Main responsibilities: A programming language implementing collective procedures for parallel computing