

BOBAN VESIN

Curriculum vitae
2018.

CONTACT INFORMATION

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Norway

PERSONAL DETAILS

Born: Serbia
Gender: male
Citizenship: Serbian, owner of Norwegian resident permit

FIELDS OF SCIENTIFIC RESEARCH INTEREST

e-learning, learning analytics, personalisation, software design, recommendation systems

EDUCATIONAL BACKGROUND

Ph.D. in Computer Science, 2014

University of Novi Sad, Serbia

Faculty of Sciences, Department of Mathematics and Informatics

Dissertation title: Personalization of learning process in tutoring system supported with the semantic web technologies

M.Sc. in Computer Science (magister degree), 2007

University of Novi Sad, Serbia

Faculty of Sciences, Department of Mathematics and Informatics

Average grade: 10.00 (out of 10)

Thesis title: Design and implementation of tutoring system for distance learning of Java programming language

B.Sc. in Computer Science, 2002

University of Novi Sad, Serbia

Faculty of Sciences, Department of Mathematics and Informatics

Average grade: 8.97 (out of 10)

Thesis title: Function point analysis

PROFESSIONAL EMPLOYMENT

Associate professor, June 2018 - present, *full time*
Department of Business, History and Social Sciences
University of South-Eastern Norway
Vestfold, Norway

Postdoctoral fellow, April 2017 – May 2018, *full time*
Department of Computer Science
Norwegian University of Science and Technology
Trondheim, Norway

Research Engineer, September 2015 – March 2017, *full time*
Department of Computer Science and Engineering
Chalmers University of Technology / University of Gothenburg
Gothenburg, Sweden

Software Engineer, January 2015 – September 2015, *full time*
Schneider Electric DMS NS
Novi Sad, Serbia

Lecturer, computer science, 2007-2015, *full time* (Teaching assistant, 2002-2007)
Novi Sad school of business, Department of Informatics
University of Novi Sad, Serbia

Systems analyst, 2002 (one semester), *full time*
Faculty of Sciences, Department of Mathematics and Informatics
University of Novi Sad, Serbia

Court expert (Expert witness), Information Technology field, 2006-present, *part-time*
Serbian court

TEACHING EXPERIENCE

Lecturer

Application development (2018), University of South-Eastern Norway
Data visualisation (2019), University of South-Eastern Norway
Software engineering (2008-2014), University on Novi Sad
Design of e-business systems (2010-2014), University on Novi Sad
Application of Internet technologies (2011-2014), University on Novi Sad
Applied programming, (2009-2011), University on Novi Sad

Teaching assistant

Web technologies (2017), NTNU, Norway
Informatics Project II (2018), NTNU, Norway
Advanced software architecture (2016-2017), Chalmers / University of Gothenburg
Database management systems (2006-2007), University on Novi Sad
Databases (2002-2005), University on Novi Sad
Programming languages (2002-2006), University on Novi Sad
Integrated development environments, (2006-2007), University on Novi Sad
Web design (2006,2007), University on Novi Sad

Thesis supervision:

Supervisor of 30+ Master and Bachelor thesis at Norwegian University of Science and Technology - Norway, University of Gothenburg - Sweden, and University of Novi Sad - Serbia

LANGUAGES

English - fluent

Serbian - native

Norwegian - beginner

PRACTICAL SKILLS

Programming languages: Java, PL/SQL

Web technologies and frameworks: Vaadin, HTML, CSS, JavaScript

Database management systems: Oracle, MySQL

Content management systems: Joomla, WordPress

Graphic design software: CorelDraw, Corel Photo-Paint, Microsoft Visio

SERVICE TO PROFESSION

Manuscript reviewing for journals:

Computer Science and Information Systems, published by ComSIS Consortium

Artificial Intelligence Review, published by Springer

Knowledge-Based Systems, Published by Elsevier

International Journal of Information Technology & Decision Making, published by World Scientific

Computer Applications in Engineering Education, published by Wiley Periodicals

Interactive Learning environments, published by Routledge

Development and review of curriculums:

Member of Accreditation Committee at Novi Sad school of business University of Novi Sad, Serbia, 2007-2014

International programme committee member:

International KES Conference on Smart education and e-learning - KES-SEEL-15 Sorrento, Italy

The First Conference on Court forensics, CFI-2015, Novi Sad, Serbia

RESEARCH EXPERIENCE

Member of the project proposal committee:

SCOPES Institutional partnerships 2014 – 20506 Information technology. Universita della Svizzera italiana, Lugano, Switzerland; Faculty of Science, Novi Sad, Serbia; Institute of Informatics and Software Engineering, Bratislava, Slovakia (2015-2018)

Project scientist:

Future learning: Orchestrating 21st century learning ecosystems using analytics (2017-), Norwegian University of Science and Technology, Trondheim, Norway

PROMPT - Professional Master's Education in Software Development, 2015-2017, financed by the Knowledge Foundation's program "Expert Skills for Innovation", Chalmers, Sweden

CEEPUS HU-0019 mobility grant program at University of Ljubljana, Faculty of computer and information science, awarded from the Ministry of Education, Science, Culture and Sport, Slovenia (2013).

Adaptive personalization of learning environments, Joint project of Department of Mathematics and Informatics, Faculty of Science (Novi Sad, Serbia) and Faculty of Electrical Engineering and Informatics (Košice, Slovakia), supported by ministries of science of both countries (2012-2013).

International business administration, organized by GTZ - Deutsche Gesellschaft für Technische Zusammenarbeit in Valjevo, Serbia (2009-2010).

Intelligent techniques and their integration into wide-spectrum decision support, supported by Ministry of Education, Science and Technological Development of the Republic of Serbia (2011-2014).

Infrastructure for technology enhanced learning in Serbia, supported by the Ministry of Education, Science and Technological Development of the Republic of Serbia (2011-2014).

PUBLICATIONS

Author or co-author of 1 book, 9 journal papers, 31 research papers and 3 published textbooks.

Enclosed is the list of publications.

Books (monographs)

1. Klašnja-Milićević, A., Vesin, B., Ivanović, M., Budimac, Z., & Jain, L. C. (2016). *E-Learning Systems: Intelligent Techniques for Personalization*. Intelligent Systems Reference Library (Vol. 112). Springer.

Papers published in international journals:

1. Klašnja-Milićević, A., Vesin, B., & Ivanović, M. (2018). Social tagging strategy for enhancing e-learning experience. *Computers & Education*, 118, 166-181.
2. Klašnja-Milićević, A., Vesin, B., Ivanović, M., & Budimac, Z. (2017). Enhancing E-Learning Systems with Personalized Recommendation Based on Collaborative Tagging Techniques. *Applied Intelligence*, Springer pp 1–17
3. Vesin, B., Ivanović, M., Klašnja-Milićević, A., & Budimac, Z. (2013). Ontology-Based Architecture with Recommendation Strategy in Java Tutoring System. *Computer Science and Information Systems – ComSIS*, 10 (1), 237-261.
4. Vesin, B., Ivanović, M., Klašnja-Milićević, A., & Budimac, Z. (2012). Protus 2.0: ontology-based semantic recommendation in programming tutoring system. *Experts Systems with Application*, 39 (15), 12229–12246.
5. Vesin, B., Klašnja-Milićević, A., Ivanović, M., & Budimac, Z. (2012). Applying recommender systems and adaptive hypermedia for e-learning personalization. *Computing and Informatics*, 32 (3), 629-659.
6. Klašnja-Milićević, A., Vesin, B., Ivanović, M., & Budimac, Z. (2011). E-learning personalization based on hybrid recommendation strategy and learning style identification. *Computers & Education*, 56 (3), 885-899.

7. Klašnja-Milićević, A., Vesin, B., Ivanović, M., & Budimac, Z. (2011). Integration of recommendations and adaptive hypermedia into Java tutoring system. *Computer Science and Information Systems – ComSIS*, 8 (1), 211-224.
8. Vesin, B., Ivanović, M., & Budimac, Z. (2009). Learning management system for programming in Java. *Annales Universitatis Scientiarum De Rolando Eötvös Nominatae, Sectio Computatorica*, 31, 75-92.
9. Ivanović, M., Pribela, I., Vesin, B., & Budimac, Z. (2008). Multifunctional environment for e-learning purposes. *Novi Sad Journal of Mathematics*, 38 (2), 153-170.

Papers published in proceedings of international conferences

1. Vesin, B., Klašnja-Milićević, A., Mangaroska K., Ivanović, M., Jolak, R., Stikkolorum, D., & Chaudron, M. (2018). Web-based educational ecosystem for automatization of teaching process and assessment of students. Proceedings of 8th International Conference on Web Intelligence, Mining and Semantics
2. Vesin, B., Mangaroska, K., Giannakos, M. & Trætteberg, H. (2018) ProTuS-Interactive Learning Analytics Tool, Research demo at 8th International Learning Analytics and Knowledge (LAK) Conference, Sydney Australia – **Best demo award**
3. Mangaroska, K. Vesin B., Giannakos M. (2017). Informing learning design with learning analytics: Can multimodal analytics improve the design of learning experiences? In proc of: Multimodal Interactions Across Physical and Digital Spaces in Real World Learning Contexts, in print.
4. Vesin, B., Jolak, R., & Chaudron, M. (2017). OctoUML: an environment for exploratory and collaborative software design, Proceedings of the 39th International Conference on Software Engineering, pp. 3-7
5. Jolak, R., Vesin, B., & Chaudron, M. (2017) Using Voice Commands for UML Modelling Support on Interactive Whiteboards: Insights and Experiences. Proceedings of XX Ibero-American Conference on Software Engineering, Buenos Aires, Argentina
6. Jolak, R., Vesin, B., Isaksson, M. & Chaudron, M. (2016) Towards a New Generation of Software Design Environments: Supporting the Use of Informal and Formal Notations with OctoUML, Second International Workshop on Human Factors in Modelling at Models 2016 conference, Saint-Malo, France, pp. 3-10
7. Vesin, B., Klašnja-Milićević, A. & Ivanović, M. (2016) Application of Semantic Web Technologies to Facilitate Use of E-Learning System on Mobile Devices, V.L. Uskov et al. (eds.), Smart Education and e-Learning 2016: Smart Innovation, Systems and Technologies 59, pp 473-484
8. Vesin, B, Klašnja-Milićević, A., Marošán, Z., Savić, N. & Jošanov, B. (2016) Learner Modelling for Enhanced Teaching of Java Programming Basics, In: T. Grabiński, M. and Woźniak-Zapór (Eds.), Social and Information aspects of e-learning, pp 91-104
9. Vesin, B., Klašnja-Milićević, A. & Ivanović, M. (2016.) Protus 2.1: Applying Collaborative Tagging for Providing Recommendation in Programming Tutoring System. In D. K. W. Chiu et al., (eds.) Advances in Web-Based Learning, pp 236–245. Springer International Publishing.

10. Vesin, B., Klašnja-Milićević, A. Ivanović, M. & Budimac, Z. (2015). Personal Assistance Agent in Programming Tutoring System. In: G. Jezic., R.J Howlett and L.J. Jain (Eds.): Agent and Multi-Agent Systems: Technology and Applications, Smart Innovation, Systems and Technologies Volume 38, pp 441-451. Springer International Publishing.
11. Ivanović, M., Budimac, Z., Klašnja-Milićević, A. & Vesin, B. (2015). Possibilities to Improve Web-based Assessment in Programming Courses, WEBDATANET: Innovation and quality in web-based data collection.
12. Ivanović, M., Mitrović, D., Budimac, Z., Vesin, B., & Jerinić, LJ. (2014). Different roles of agents in personalized programming learning environment. In: *D.K.W. Chiu et al. (Eds.): ICWL 2011/2012 Workshops, LNCS 7697*, (pp. 161-170), Berlin, Germany: Springer-Verlag, Heidelberg.
13. Vesin, B., Klašnja-Milićević, A., & Ivanović, M. (2013). Improving testing abilities of a programming tutoring system. In *System Theory, Control and Computing (ICSTCC), 2013 17th International Conference* (pp. 669-673). IEEE.
14. Vesin, B., Klašnja-Milićević, A., Ivanović, M., & Budimac, Z. (2013). Applying collaborative tagging and semantic web technologies for providing recommendation in programming tutoring system. *The 6th International Conference on Information Technology, ICIT 2013, Amman, Jordan, paper no. 714*
15. Vesin, B., Klašnja-Milićević, A., Ivanović, M., & Budimac, Z., (2013). Personalised learning in tutoring systems. IV Symposium Mathematics and Applications, Faculty of Mathematics, Belgrade, pp 127-137
16. Klašnja-Milićević, A., Vesin, B., Ivanovic, M., & Budimac, Z. (2012). Personalisation of Programming Tutoring System Using Tag-Based Recommender Systems. In *2012 IEEE 12th International Conference on Advanced Learning Technologies* (pp. 666-667). IEEE.
17. Sredojević, D., Marčičević, Ž., & Vesin, B. (2012). Information systems in education. *31st International Conference on Organizational Science Development, Quality, innovation, future, Portorož, Slovenia*, 1103-1108.
18. Vesin, B., Ivanović, M., Klašnja-Milićević, A., & Budimac, Z. (2011). Rule-based reasoning for building learner model in programming tutoring system. In: *H. Leung et al. (Eds.): ICWL 2011, LNCS 7048* (pp. 154-163). Berlin, Germany: Springer-Verlag, Heidelberg.
19. Vesin, B., Ivanović, M., Klašnja-Milićević, A., & Budimac, Z. (2011). Rule-based reasoning for altering pattern navigation in programming tutoring system. In *15th International Conference on System Theory, Control, and Computing (ICSTCC), 2011* (pp. 644-649). IEEE.
20. Vesin, B., Klašnja-Milićević, A., Ivanović, M., & Budimac, Z. (2011). Ontology-based architecture for providing recommendation in Java tutoring system. In: Abdelfatah A. Yahya, Al-Dahoud A. (Eds.): *Proc. of 5th International Conference on Information Technology ICIT 2011*, Amman, Jordan, paper no. 538.
21. Klašnja-Milićević, A., Vesin, B., Ivanović, M., & Budimac, Z. (2009). Integration of recommendations into Java tutoring system. *The 4th International Conference on Information Technology ICIT 2009 Jordan*, paper no 154.
22. Vesin, B., Ivanović, M., Budimac, Z., & Pribela, I. (2008). MILE – multifunctional integrated learning environment. In *IADIS International Conference e-Learning 2008, Amsterdam, Netherlands*, 104-108.

23. Vesin, B., Ivanović, M., & Budimac, Z. (2007). Tutoring system for distance learning of Java programming language. *10th Symposium on Programming Languages and Software Tools SPLST 2007, June 14-16, Dobogókő, Hungary*, 310-320.
24. Vesin, B., & Ivanović, M. (2004). Modern educational tools. *Proceedings of PRIM2004, 16th Conference on Applied Mathematics, Budva, Montenegro*, 293-302.

Papers published in proceedings of national conferences

1. Budimac, Z., Ivanović, M., Putnik, Z., Komlenov, Ž., Pribela, I., Klašnja-Milićević, A., & Vesin, B. (2010). E-Learning at the Department of mathematics and informatics – from the first steps to elements of web 2.0. *E-learning, towards knowledge society*, Belgrade.
2. Vesin, B. (2008). Metodologija razvoja sistema za elektronsko učenje. *School of business*, 1, 101-106.
3. Vesin, B. (2006). Softverska podrška obrazovnim sistemima podučavanja. *School of business*, 3(2), 50-53.
4. Vesin, B. (2006). Učenje na daljinu preko globalne mreže. *School of business*, 2 (2), 60-65.
5. Vesin, B., & Ivanović, M. (2003). Function point analysis. *In Proc. of XVIII Info-Teh conference, Vrnjačka banja, Serbia*, 112-120.
6. Jošanov, B., & Vesin, B. (2003). M-Trgovina - novi izazovi poslovanju i tehnologijama. *In Proc. of XVIII Info-Teh conference, Vrnjačka banja, Serbia*, 2003.
7. Vesin, B. (2003). Digitalni potpisi. *Zbornik naučno – stručnih radova Više poslovne škole u Novom Sadu, januar-jun*, 202-207.
8. Vesin, B. (2003). Dizajniranje objektno orijentisanih modela pomoću UML-a. *Zbornik naučno – stručnih radova Više poslovne škole u Novom Sadu, januar-jun*, 458-471.
9. Vesin, B. (2003). Interfejsi sa dijalogom inteligentnih obrazovnih sistema. *Zbornik naučno – stručnih radova Više poslovne škole u Novom Sadu, juli-decembar*, 398-402.
10. Vesin, B. (2003). Primena veštačke inteligencije u obrazovanju. *Zbornik naučno – stručnih radova Više poslovne škole u Novom Sadu, juli-decembar*, 208-213.

Published textbooks

1. Marošan, Z., & Vesin, B. (2009). *Application of Information Technologies, practice manual*. Novi Sad school of business, University of Novi Sad, Serbia.
2. Ristić, S., Marošan, Z., Klašnja, A., & Vesin, B. (2004). *Application of Information Technologies, practice manual*. Novi Sad school of business, University of Novi Sad, Serbia.
3. Jošanov, B., & Vesin, B. (2004). *Software engineering practicum*. Novi Sad school of business, University of Novi Sad, Serbia.