

BOBAN VESIN

Curriculum vitae
2017.

CONTACT INFORMATION

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PERSONAL DETAILS

Date of birth: 31. 5. 1978.
Gender: male

FIELDS OF SCIENTIFIC RESEARCH INTEREST

E-learning, personalisation, learning analytics, semantic web, adaptive 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

Postdoctoral fellow, April 2017 – present, *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)
Higher School of Professional Business Studies, 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

Research Engineer, February 2016 – September 2016, *part-time*
Mälardalen University College
Västerås and Eskilstuna, Sweden

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

TEACHING EXPERIENCE

Courses taught at master level (Chalmers / University of Gothenburg):
Advanced software architecture (TA)

Courses taught at postgraduate level (Novi Sad):
Database management systems, Design of e-business systems, Integrated development environments, Internet marketing

Courses taught at undergraduate level (Novi Sad):
Databases, Application of Internet technologies, Programming languages, Web design, Software engineering

Thesis supervision:
Supervisor of 5 bachelor thesis (Chalmers / University of Gothenburg, Sweden) and more than 20 Specialist theses (Higher School of Professional Business Studies, Novi Sad, Serbia)

LANGUAGES

English - fluent
Serbian - native
Swedish – beginner
Norwegian - beginner

PRACTICAL SKILLS

Programming languages: Java, PL/SQL, Pascal, C#
Web technologies and frameworks: Vaadin, HTML, CSS, JavaScript, ASP.NET MVC
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 Higher School of Professional Business Studies
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

Participation in the research projects:

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

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) (member of the project proposal committee)

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, 7 journal papers, 38 research papers and 3 published textbooks.
Enclosed is the list of publications.


Books (monograph)

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. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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., Jolak, R. & Chaudron M. (2017) OctoUML: An Environment for Exploratory and Collaborative Software Design, 39th International Conference on Software engineering ICSE 2017, Buenos Aires, Argentina, in print
2. Jolak, R., Vesin, B. & Chaudron, M. (2017) Using Voice Commands for UML Modelling Support on Interactive Whiteboards: Insights and Experiences, Conferencia Iberoamerica de Software Engineering, CibSE 2017, Buenos Aires, Argentina, in print
3. 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, in print

4. 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
5. Vesin, B, Klašnja-Milićević, A., Maroššan, 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
6. 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.
7. 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.
8. 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*.
9. 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.
10. 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.
11. 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*
12. 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
13. 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.
14. Sredojević, D., Marčićević, Ž., & Vesin, B. (2012). Information systems in education. *31st International Conference on Organizational Science Development, Quality, innovation, future, Portorož, Slovenia*, 1103-1108.
15. 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.
16. 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.

17. 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.
18. 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.
19. 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.
20. 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.
21. 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*. Higher school of professional business studies, Novi Sad.
2. Ristić, S., Marošan, Z., Klašnja, A., & Vesin, B. (2004). *Application of Information Technologies, practice manual*. Higher business school, Novi Sad.
3. Jošanov, B., & Vesin, B. (2004). *Software engineering practicum*. Higher business school, Novi Sad.