

Vesin Boban

ASSOCIATE PROFESSOR · COMPUTER SCIENCE

University of South-Eastern Norway, Vestfold Norway, Raveien 215, 3184 Borre

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

Fields of Scientific Research Interest

learning technologies, learning analytics, personalised e-learning, software design, recommendation systems, power management

Education

PhD in Computer Science

DEPARTMENT OF MATHEMATICS AND INFORMATICS, FACULTY OF SCIENCE, UNIVERSITY OF NOVI SAD

Novi Sad, Serbia

2014

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

MSc in Computer Science (Magister degree)

DEPARTMENT OF MATHEMATICS AND INFORMATICS, FACULTY OF SCIENCE, UNIVERSITY OF NOVI SAD

Novi Sad, Serbia

2007

- Average grade: 10.00 (out of 10)
- Dissertation title: Design and implementation of tutoring system for distance learning of Java programming language

BSc in Computer Science

DEPARTMENT OF MATHEMATICS AND INFORMATICS, FACULTY OF SCIENCE, UNIVERSITY OF NOVI SAD

Novi Sad, Serbia

2002

- Average grade: 8.97 (out of 10)
- Dissertation title: Function point analysis

Experience

Professor

UNIVERSITY OF SOUTH-EASTERN NORWAY

Vestfold, Norway

September. 2023 - PRESENT

- Department of Business, History and Social Sciences, Vestfold, Norway
- Information technologies and information systems - **Full time**

Associate professor

UNIVERSITY OF SOUTH-EASTERN NORWAY

Vestfold, Norway

June. 2018 - September. 2023

- Department of Business, History and Social Sciences, Vestfold, Norway
- Information technologies field - **Full time**

Associate professor

NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Trondheim, Norway

October. 2021 - PRESENT

- Department of Computer Science, Trondheim, Norway
- Information technologies field - **Part time**

Postdoctoral fellow

NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Trondheim, Norway

April. 2017 - May. 2018

- Department of Computer Science, Trondheim, Norway
- Information technologies field - **Full time**

Research Engineer

CHALMERS UNIVERSITY OF TECHNOLOGY / UNIVERSITY OF GOTHENBURG

Gothenburg, Sweden

September. 2015 - April. 2017

- Department of Computer Science and Engineering, Gothenburg, Sweden
- Software engineering field - **Full time**

Software Engineer

SCHNEIDER ELECTRIC DMS NS

Novi Sad, Serbia

January 2015 – August 2015

- Training team, Novi Sad, Serbia
- Information technologies field - **Full time**

Lecturer

NOVI SAD SCHOOL OF BUSINESS

Novi Sad, Serbia

December. 2007 - January 2015

- Department of Informatics, Novi Sad, Serbia
- Computer science field - **Full time**

Teaching assistant

NOVI SAD SCHOOL OF BUSINESS

- Department of Informatics, Novi Sad, Serbia
- Computer science field - **Full time**

Novi Sad, Serbia

December. 2002 - December. 2007

System analyst

UNIVERSITY OF NOVI SAD, SERBIA

- Department of Mathematics and Informatics, Novi Sad, Serbia
- **Full time**

Novi Sad, Serbia

January. 2002 - June. 2002

Court expert (Expert witness)

SERBIAN COURT

- The field of Information Technology, Involved in over 50 cases
- **Part time**

Serbia

2006 - PRESENT

Teaching experience

LECTURER

2023-...	Object-oriented analysis, design and programming , University of South-Eastern Norway	<i>Vestfold, Norway</i>
2020-...	Object-oriented programming I and II , University of South-Eastern Norway	<i>Vestfold, Norway</i>
2018-...	Web application development , University of South-Eastern Norway	<i>Vestfold, Norway</i>
2019-20	Data visualisation , University of South-Eastern Norway	<i>Vestfold, Norway</i>
2017	Web technologies , Norwegian University of Science and Technology	<i>Trondheim, Norway</i>
2008-14	Software engineering , University on Novi Sad	<i>Novi Sad, Serbia</i>
2010-14	Design of e-business systems , University on Novi Sad	<i>Novi Sad, Serbia</i>
2011-14	Application of Internet technologies , University on Novi Sad	<i>Novi Sad, Serbia</i>
2010-11	Internet marketing , University on Novi Sad	<i>Novi Sad, Serbia</i>
2009-11	Applied programming , University on Novi Sad	<i>Novi Sad, Serbia</i>
2006-07	Database management systems , University on Novi Sad	<i>Novi Sad, Serbia</i>

TEACHING ASSISTANT

2018	Informatics Project II , Norwegian University of Science and Technology	<i>Trondheim, Norway</i>
2016-17	Advanced software architecture , Chalmers / University of Gothenburg	<i>Gothenburg, Sweden</i>
2002-05	Databases , University on Novi Sad	<i>Novi Sad, Serbia</i>
2002-06	Programming languages , University on Novi Sad	<i>Novi Sad, Serbia</i>
2006-07	Integrated development environments , University on Novi Sad	<i>Novi Sad, Serbia</i>
2006-07	Web design , University on Novi Sad	<i>Novi Sad, Serbia</i>
2004-08	Mathematics , University on Novi Sad	<i>Novi Sad, Serbia</i>

Service to Profession

MANUSCRIPT REVIEWING FOR JOURNALS

2021-...	IEEE Transactions on Learning Technologies , published by IEEE Education Society
2011-...	Computer Science and Information Systems , published by ComSIS Consortium
2023-...	International Journal of Information Management Data Insights , published by Elsevier
2020-...	Human-Media Interaction , published by Frontiers
2013-...	Artificial Intelligence Review , published by Springer
2013-...	Knowledge-Based Systems , published by Elsevier
2013-...	International Journal of Information Technology & Decision Making , published by World Scientific
2013-...	Computer Applications in Engineering Education , published by Wiley Periodicals
2012-...	Interactive Learning environments , published by Routledge
2020-...	Information Systems Frontiers , published by Kluwer Academic Publishers
2020-...	IEEE Transactions on Learning Technologies , published by IEEE Education Society
2013-...	Computers & Education , published by Elsevier

DEVELOPMENT AND REVIEW OF CURRICULUMS

2021-..	Curriculum development at the University of South-Eastern Norway , participant	<i>Vestfold, Norway</i>
2007-14	Accreditation Committee at Novi Sad school of business, University of Novi Sad, Serbia , member	<i>Novi Sad, Serbia</i>

PROGRAMME COMMITTEE MEMBER

- 2020-21 **Frontiers in Artificial Intelligence: AI for Human Learning and Behavior Change**, Guest Associate Editor *Lausanne, Swiss*
- 2020-22 **Innovation and Technology in Computer Science Education (ITiCSE) Conference**, Web Page Coordinator *Trondheim, Norway*
- 2020 **Norsk konferanse for organisasjoners bruk av IT - NOKOBIT20**, Program committee *Sundvollen, Norway*
- 2018 **ACM Interaction Design and Children (IDC) Conference**, Committee member *Trondheim, Norway*
- 2015 **International KES Conference on Smart education and e-learning**, Committee member *Sorrento, Italy*

Research Experience

Internationalization of teaching and research - Brazil, USA, Norway

Norway

PROJECT COORDINATOR

2023- 2026

- University of South-eastern Norway
- Financed by HK-dir Norwegian Directorate for Higher Education and Skills
- UTF-2021/10186
- Value of the grant: 3 395 775 NOK

Towards adaptive assessment within smart learning environment

Norway

PROJECT MANAGER

2019- 2020

- University of South-eastern Norway
- Financed by Diku – Norwegian Agency for International Cooperation and Quality Enhancement in Higher Education
- Value of the grant: 290 000 NOK

Extending Design Thinking with Emerging Digital Technologies

EU

PROJECT SCIENTIST

2022- 2025

- Norwegian University of Science and Technology, Trondheim, Norway
- Financed by Horizon Europe and Innovate UK

InternAbroad: University of South-Eastern Norway - Un. Federal Rural de Pernambuco

Norway

PROJECT COORDINATOR

2019- 2022

- University of South-eastern Norway
- Financed by Diku – Norwegian Agency for International Cooperation and Quality Enhancement in Higher Education
- INA-2019/10093
- Value of the grant: 300 000 NOK

Future learning: Orchestrating 21st century learning ecosystems using analytics

Norway

PROJECT SCIENTIST

2017 - 2020

- Norwegian University of Science and Technology, Trondheim, Norway
- financed by *The Research Council of Norway*

Multi-layer aggregator solutions to facilitate optimum demand response and grid flexibility

EU

PROJECT SCIENTIST

2019- 2021

- TÜBITAK (Turkey), SWEA (Sweden), EUDP (Denmark), UEFISCDI (Romania), and RCN (Norway)
- Financed by ERA-Net Smart Energy Systems SG+ 2017 Program, SMART-MLA Project No: 89029

PROMPT - Professional Master's Education in Software Development

Sweden

PROJECT SCIENTIST

2015 - 2017

- Chalmers University of Technology / University of Gothenburg
- financed by the *Knowledge Foundation's program "Expert Skills for Innovation"*

Adaptive personalization of learning environments

Serbia

PROJECT SCIENTIST

2012-2013

- Joint project of Faculty of Science (Novi Sad, Serbia) and Faculty of Electrical Engineering and Informatics (Košice, Slovakia)
- supported by ministries of science of both countries

Intelligent techniques and their integration into wide-spectrum decision support

Serbia

PROJECT SCIENTIST

2011-2014

- University of Novi Sad, Serbia
- supported by Ministry of Education, Science and Technological Development of the Republic of Serbia

Infrastructure for technology enhanced learning in Serbia

Serbia

PROJECT SCIENTIST

2011-2014

- University of Novi Sad, Serbia
- supported by Ministry of Education, Science and Technological Development of the Republic of Serbia

- University of Novi Sad, Serbia
- organized by GTZ - Deutsche Gesellschaft für Technische Zusammenarbeit

Honors & Awards

INTERNATIONAL

- | | | |
|------|---|--------------------------|
| 2023 | Best Paper Award , The 4th International Scientific Conference of Communications, Information, Electronic and Energy Systems | <i>Plovdiv, Bulgaria</i> |
| 2018 | Best Demo Award , International Conference on Learning Analytics & Knowledge | <i>Sydney, Australia</i> |
| 2021 | Best Paper Award , The 14th Int. Conf. on Advances in Human-oriented and Personalized Mechanisms, Technologies and Services | <i>Barcelona, Spain</i> |

DOMESTIC

- | | | |
|------|--|---------------|
| 2022 | Research Grant from HK-dir , Internationalization of teaching and research - Brazil, USA, Norway | <i>Norway</i> |
| 2019 | Research Grant from DIKU , InternAbroad: Un. of South-Eastern Norway - Un. Fed. Rural de Pernambuco | <i>Norway</i> |
| 2019 | Research Grant from DIKU , Towards adaptive assessment within smart learning environment | <i>Norway</i> |

Practical Skills

Programming	JAVA, PL/SQL, LaTeX
Web	Vaadin, HTML, CSS
Database management systems	Oracle, MySQL
Content management systems	WordPress, Joomla
Graphic design software	CorelDraw, Microsoft Visio, Adobe Premier Pro, Adobe illustrator

Languages

- English**, fluent
- Serbian**, native language
- Norwegian**, level B1

Publications

Author or co-author of 1 book, 19 journal papers, 44 research papers and 3 published textbooks.

Enclosed is the list of publications.

Books

1. Klasnja-Miliević, A., Vesin, B., Ivanović, M., Budimac, Z. & Jain, L. C. *E-Learning Systems: Intelligent Techniques for Personalization* (Springer Publishing Company, Incorporated, 2016).

Journal articles

2. Ilić, M., Mikić, V., Kopanja, L. & Vesin, B. Intelligent techniques in e-learning: a literature review. *Artificial Intelligence Review*, 1–47 (2023).
3. Janković, Z., Vesin, B., Selakov, A. & Berntzen, L. Gab-SSDS: An AI-Based Similar Days Selection Method for Load Forecast. *Frontiers in Energy Research*, 439 (2022).
4. Klašnja-Milićević, A., Ivanović, M., Vesin, B., Satratzemi, M. & Wasson, B. Learning Analytics–Trends and Challenges. *Frontiers in Artificial Intelligence* **5** (2022).
5. Marosan, Z., Savic, N., Klasnja-Milicevic, A., Ivanovic, M. & Vesin, B. Students' Perceptions of ILS as a Learning-Style-Identification Tool in E-Learning Environments. *Sustainability* **14**, 4426 (2022).
6. Mikić, V., Ilić, M., Kopanja, L. & Vesin, B. Personalisation methods in e-learning-A literature review. *Computer Applications in Engineering Education* **30**, 1931–1958 (2022).

7. Vesin, B., Mangaroska, K., Akhuseyinoglu, K. & Giannakos, M. Adaptive assessment and content recommendation in online programming courses: on the use of Elo-rating. *ACM Transactions on Computing Education (TOCE)* **22**, 1–27 (2022).
8. Bruno, E., Alexandre, B., Ferreira Mello, R., Falcão, T. P., Vesin, B. & Gašević, D. Applications of learning analytics in high schools: a Systematic Literature review. *Frontiers in Artificial Intelligence*, 132 (2021).
9. Mangaroska, K., Martinez-Maldonado, R., Vesin, B. & Gašević, D. Challenges and opportunities of multimodal data in human learning: The computer science students' perspective. *Journal of Computer Assisted Learning* **37**, 1030–1047 (2021).
10. Mangaroska, K., Vesin, B., Kostakos, V., Brusilovsky, P. & Giannakos, M. N. Architecting Analytics Across Multiple E-Learning Systems to Enhance Learning Design. *IEEE Transactions on Learning Technologies* **14**, 173–188 (2021).
11. Klačnja-Milićević, A., Ivanović, M., Vesin, B. & Budimac, Z. Enhancing e-learning systems with personalized recommendation based on collaborative tagging techniques. *Applied Intelligence* **48**, 1519–1535 (2018).
12. Klačnja-Milićević, A., Vesin, B. & Ivanović, M. Social tagging strategy for enhancing e-learning experience. *Computers & Education* **118**, 166–181 (2018).
13. Vesin, B., Mangaroska, K. & Giannakos, M. Learning in smart environments: user-centered design and analytics of an adaptive learning system. *Smart Learning Environments* **5**, 1–21 (2018).
14. Vesin, B., Ivanović, M., Klačnja-Milićević, A. & Budimac, Z. Ontology-based architecture with recommendation strategy in java tutoring system. *Computer Science and Information Systems* **10**, 237–261 (2013).
15. Vesin, B., Milicevic, A. K., Ivanović, M. & Budimac, Z. Applying Recommender Systems and Adaptive Hypermedia for e-Learning Personalization. *Computing and Informatics* **32**, 629–659 (2013).
16. Vesin, B., Ivanović, M., Klačnja-Milićević, A. & Budimac, Z. Protus 2.0: Ontology-based semantic recommendation in programming tutoring system. *Expert Systems with Applications* **39**, 12229–12246 (2012).
17. Klačnja-Milićević, A., Vesin, B., Ivanović, M. & Budimac, Z. E-Learning personalization based on hybrid recommendation strategy and learning style identification. *Computers & Education* **56**, 885–899 (2011).
18. Klačnja-Milićević, A., Vesin, B., Ivanović, M. & Budimac, Z. Integration of recommendations and adaptive hypermedia into Java tutoring system. *Computer Science and Information Systems* **8**, 211–224 (2011).
19. Vesin, B., Ivanović, M. & Budimac, Z. Learning management system for programming in java. *Annales Universitatis Scientiarum De Rolando Eötvös Nominatae, Sectio-Computatorica* **31**, 75–92 (2009).
20. Ivanović, M., Pribela, I., Vesin, B. & Budimac, Z. Multifunctional environment for e-learning purposes. *Novi Sad Journal of Mathematics, NSJOM* **38**, 153–170 (2008).

Conference proceedings

21. Mangaroska, K., Larssen, K., Amundsen, A., Vesin, B. & Giannakos, M. *Understanding engagement through game learning analytics and design elements: Insights from a word game case study in Proceedings of the 14th Learning Analytics and Knowledge Conference* (2024), 305–315.
22. Janković, Z. & Vesin, B. *Clean Genetic Algorithm Architecture for Improved Modularity and Extensibility in 2023 4th International Conference on Communications, Information, Electronic and Energy Systems (CIEES)* (2023), 1–4.
23. Janković, Z., Ilić, S., Vesin, B. & Selakov, A. *Special Day Regression Model for Short-Term Load Forecasting in 2022 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe)* (2022), 1–5.
24. Meng, Q., Berntzen, L., Vesin, B., Johannessen, M. R., Oprea, S. & Bara, A. *Blockchain Applications in Smart Grid A Review and a Case Study in Information Systems: 18th European, Mediterranean, and Middle Eastern Conference, EMCIS 2021, Virtual Event, December 8–9, 2021, Proceedings* (2022), 130–149.
25. Berntzen, L., Meng, Q., Johannessen, M. R., Vesin, B., Brekke, T. & Laur, I. *Aggregators and Prosumers-An Analysis of Business Model Opportunities in 2021 International Conference on Engineering and Emerging Technologies (ICEET)* (2021), 1–6.
26. Berntzen, L., Meng, Q., Johannessen, M. R., Vesin, B., Brekke, T. & Laur, I. *The Aggregator as a Storage Provider in 2021 11th International Conference on Power and Energy Systems (ICPES)* (2021), 190–195.
27. Berntzen, L., Meng, Q., Vesin, B., Johannessen, M. R., Brekke, T. & Laur, I. *Blockchain for Smart Grid Flexibility-Handling Settlements Between the Aggregator and Prosumers* in (2021).
28. Johannessen, M. R., Berntzen, L., Vesin, B., Meng, Q., Brekke, T. & Laur, I. *User Sentiments Towards Smart Grid Flexibility-A survey of early adopters' attitude towards allowing third parties to control electricity use in households* in (2021).

29. Johannessen, M. R., Berntzen, L., Vesin, B., Meng, Q., Brekke, T. & Laur, I. *Vehicle to Grid and Crisis Management-Potential of V2G for Smart City Power Grids in Norway* in (2021).
30. Vesin, B., Mangaroska, K. & Giannakos, M. N. *Learning Introductory Programming with Smart Learning Environment* in. **2020** (2020).
31. Mangaroska, K., Jaccheri, L., Vesin, B. & Giannakos, M. *The Dynamics of Motivational and Emotional Challenges and Regulation Strategies in Customer-Driven Project-based Learning* in *2019 IEEE 19th International Conference on Advanced Learning Technologies (ICALT)* **2161** (2019), 367–371.
32. Mangaroska, K., Vesin, B. & Giannakos, M. *Cross-platform analytics: A step towards personalization and adaptation in education* in *Proceedings of the 9th international conference on learning analytics & knowledge* (2019), 71–75.
33. Mangaroska, K., Vesin, B. & Giannakos, M. *Elo-rating method: Towards adaptive assessment in e-learning* in *2019 IEEE 19th International Conference on Advanced Learning Technologies (ICALT)* **2161** (2019), 380–382.
34. Klačnja-Milićević, A., Marošćan, Z., Ivanović, M., Savić, N. & Vesin, B. *The Future of Learning Multisensory Experiences: Visual, Audio, Smell and Taste Senses* in *International Conference in Methodologies and intelligent Systems for Technology Enhanced Learning* (2018), 213–221.
35. Mangaroska, K., Özgöbek, Ö., Vesin, B. & Giannakos, M. *Implementation of Elo-Rating method in Recommending Coding Exercises to Programming Students* in *Norsk konferanse for organisasjoners bruk av informasjonsteknologi (NOKOBIT)* (2018).
36. Vesin, B., Klačnja-Milićević, A., Mangaroska, K., Ivanović, M., Jolak, R., Stikkolorum, D. & Chaudron, M. *Web-based educational ecosystem for automatization of teaching process and assessment of students* in *International Conference on Web Intelligence, Mining and Semantics* (2018), 8.
37. Vesin, B., Mangaroska, K., Giannakos, M. & Trætterberg, H. *ProTuS- Interactive learning analytics tool* in *Research demo at the 8th International Learning Analytics and Knowledge (LAK) Conference* (2018).
38. Jolak, R., Vesin, B. & Chaudron R.V., M. *Using Voice Commands for UML Modelling Support on Interactive Whiteboards: Insights and Experiences* in *XX Ibero-American Conference on Software Engineering, Buenos Aires, Argentina* (2017).
39. Mangaroska, K., Vesin, B. & Giannakos, M. *Informing learning design with learning analytics: Can multimodal analytics improve the design of learning experiences?* in *Twelfth European Conference On Technology Enhanced Learning* (2017), Paper–no.
40. Vesin, B., Jolak, R. & Chaudron, M. R. *OctoUML: an environment for exploratory and collaborative software design* in *2017 IEEE/ACM 39th International Conference on Software Engineering Companion (ICSE-C)* (2017), 7–10.
41. Jolak, R., Vesin, B., Isaksson, M. & Chaudron, M. R. *Towards a New Generation of Software Design Environments: Supporting the Use of Informal and Formal Notations with OctoUML*. in *HuFaMo@ MoDELS* (2016), 3–10.
42. Vesin, B., Klačnja-Milićević, A. & Ivanović, M. *Protus 2.1: Applying collaborative tagging for providing recommendation in programming tutoring system* in *International Conference on Web-Based Learning* (2016), 236–245.
43. Ivanović, M., Budimac, Z., Klačnja-Milićević, A. & Vesin, B. *Possibilities to Improve Web-based Assessment in Programming Courses* in *WEBDATANET: Innovation and quality in web-based data collection* (2015).
44. Vesin, B., Klačnja-Milićević, A. & Ivanović, M. *Improving testing abilities of a programming tutoring system* in *2013 17th International Conference on System Theory, Control and Computing (ICSTCC)* (2013), 669–673.
45. Vesin, B., Klačnja-Milićević, A., Ivanović, M. & Budimac, Z. *Applying collaborative tagging and semantic web technologies for providing recommendation in programming tutoring system* in *The 6th International Conference on Information Technology, ICIT 2013, Amman, Jordan* (2013), paper–no.
46. Vesin, B., Klačnja-Milićević, A., Ivanović, M. & Budimac, Z. *Personalised learning in tutoring systems* in *IV symposium Mathematics and application* (2013), 127–137.
47. Ivanović, M., Mitrović, D., Budimac, Z., Vesin, B. & Jerinić, L. *Different roles of agents in personalized programming learning environment* in *International Conference on Web-Based Learning* (2012), 161–170.
48. Klačnja-Milićević, A., Vesin, B., Ivanović, M. & Budimac, Z. *Personalisation of programming tutoring system using Tag-based recommender systems* in *Advanced Learning Technologies (ICALT), 2012 IEEE 12th International Conference on* (2012), 666–667.
49. Sredojević, D., Marčićević, Ž. & Vesin, B. *Information systems in education* in *31st International Conference on Organizational Science Development, Quality, innovation, future, Portorož, Slovenia* (2012), 1103–1108.
50. Vesin, B., Ivanović, M., Klačnja-Milićević, A. & Budimac, Z. *Rule-based reasoning for altering pattern navigation in programming tutoring system* in *15th International Conference on System Theory, Control and Computing* (2011), 1–6.
51. Vesin, B., Ivanović, M., Klačnja-Milićević, A. & Budimac, Z. *Rule-based reasoning for building learner model in programming tutoring system* in *International Conference on Web-Based Learning* (2011), 154–163.

52. Vesin, B., Klašnja-Milićević, A., Ivanović, M. & Budimac, Z. *Ontology-based architecture for providing recommendation in Java tutoring system* in *The 6th International Conference on Information Technology* (2011).
53. Budimac, Z., Ivanović, M., Putnik, Z., Komlenov, Ž., Pribela, I., Klašnja-Milićević, A. & Vesin, B. *E-Learning at the Department of mathematics and informatics – from the first steps to elements of web 2.0 in E-learning, towards knowledge society* (2010).
54. Klašnja-Milićević, A., Vesin, B., Ivanović, M. & Budimac, Z. *Integration of recommendations into Java tutoring system* in *The 4th international conference on information technology ICIT 2009 Jordan* (2009).
55. Vesin, B., Ivanović, M., Budimac, Z. & Pribela, I. *Mile-Multifunctional Integrated Learning Environment in e-Learning* (2008), 104–108.
56. Vesin, B., Ivanović, M. & Budimac, Z. *Tutoring system for distance learning of Java programming language in 10th Symposium on Programming Languages and Software Tools SPLST 2007, Dobogókő, Hungary* (2007), 310–320.
57. Vesin, B. & Ivanović, M. *Modern educational tools* in *Proceedings of PRIM2004, 16th Conference on Applied Mathematics, Budva, Montenegro* (2004), 293–302.

National journals and proceedings of national conferences

58. Vesin, B. *Metodologija razvoja sistema za elektronsko učenje* School of business, Higher School of Professional Business Studies, 1(1), pp. 101-106. 2008.
59. Vesin, B. *Softverska podrška obrazovnim sistemima podučavanja* School of business, Higher School of Professional Business Studies, 3(2), pp. 50-53. 2006.
60. Vesin, B. *Učenje na daljinu preko globalne mreže* School of business, Higher School of Professional Business Studies, 2(2), pp. 60-65. 2006.
61. Jošanov, B. & Vesin, B. *M-Trgovina - novi izazovi poslovanju i tehnologijama* Proceedings of XVIII Info-Teh conference, Vrnjačka banja, Serbia, 65-73. 2003.
62. Vesin, B. *Digitalni potpisi* Zbornik naučno – stručnih radova Više poslovne škole u Novom Sadu, January-June, pp. 202-207. 2003.
63. Vesin, B. *Dizajniranje objektno orijentisanih modela pomoću UML-a* Zbornik naučno - stručnih radova Više poslovne škole u Novom Sadu, January-June, 458-471. 2003.
64. Vesin, B. *Function point analysis* Proceedings of XVIII Info-Teh conference, Vrnjačka banja, Serbia, pp. 112-120. 2003.
65. Vesin, B. *Interfejsi sa dijalogom inteligentnih obrazovnih sistema* Zbornik naučno – stručnih radova Više poslovne škole u Novom Sadu, July-December, 398-402. 2003.
66. Vesin, B. *Primena veštačke inteligencije u obrazovanju* Zbornik naučno – stručnih radova Više poslovne škole u Novom Sadu, July-December, 208-213. 2003.

Published textbooks

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