

# **Dr. Zoran Budimac**

## **Curriculum Vitae**

(January 24, 2023)

### **Address:**

Department of Mathematics and Informatics  
Faculty of Science  
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### **Home Address:**

Narodnog fronta 72/144  
21000 Novi Sad, PAK 403456  
Serbia

mobile phone: +381-63-8169-061

## Personal Data

- **Date of birth:** December 24, 1960
- **Place of birth:** Sombor, Autonomous Province of Vojvodina, Serbia
- **Sex:** Male
- **Marital status:** Married, two children
- **Citizenship:** Serbian

## Languages

- **Mother tongue:** Serbian
- **Active knowledge:** English
- **Reading knowledge:** German, all Slavic languages

## Fields of Interests in Computer Science

- Software quality
- Mobile Agents
- Software engineering
- Workflow management systems
- Implementation of Functional and Logic Programming Languages
- Compiler Construction
- Programming Languages

## Education

University of Novi Sad, Faculty of Science, Novi Sad, Yugoslavia:

- Ph.D. Computer Science, 1994 (July, 1)
- M.S. Mathematics, 1991 grade point average: 10 (10 max.)
- B.S. Computer Science, 1983 grade point average: 9.03 (10 max.)

- Ph.D. thesis was in the field of implementations of functional programming languages.
- M.S. thesis was in the field of implementations of logic programming languages.

## Professional Experience

- Professor, June 15, 2004 - present  
University of Novi Sad, Faculty of Science, Novi Sad
- Associate Professor, 1999 - 2004  
University of Novi Sad, Faculty of Science, Novi Sad
- Assistant Professor, 1995 - 1999  
University of Novi Sad, Faculty of Science, Novi Sad
- Assistant Lecturer, 1988 - 1995  
University of Novi Sad, Faculty of Science, Novi Sad
- Systems Analyst, 1987 - 1988  
Faculty of Science, Computing Center of Institute of Mathematics, Novi Sad
- Systems Engineer, 1986 - 1987  
"Novi Sad Cable Works" (production of cables & micro-computers), Novi Sad
- Programmer, 1985 - 1986  
"Novi Sad Cable Works", Novi Sad

## Honors

- Member of the Council, 2000 - 2006, 2008-2012, 2015 - present  
Dept. of Mathematics and Informatics, Faculty of Science, Novi Sad
- Head of Computer Science Chair, 2002 - 2008, 2015 - present  
Dept. of Mathematics and Informatics, Faculty of Sciences, University of Novi Sad,
- Head of the Computing Laboratory, 2002 - 2006, 2008 - 2018.  
Dept. of Mathematics and Informatics, Faculty of Science, Novi Sad
- Member of the faculty council, 2012 - 2015.  
Faculty of Sciences, University of Novi Sad,

- Member of the university council for natural sciences and mathematics, 2007 - 2012  
University of Novi Sad,

## Teaching Experience - Graduate level

### Taught the Courses

- Faculty of Science, University of Novi Sad, Novi Sad
- *Research Methods*, 2007 - present
  - *Architecture, Design and Patterns*, 2006 – 2009
  - *Advanced Topics in Software Engineering*, 2006 – present
  - *Software Engineering*, 2003 - 2005
- Faculty of Informatics, Eotvos Lorand University, Budapest, Hungary
- *Introduction to formal methods*, intensive course March 2007
- Dept. of Informatics, Johannes Kepler University, Linz, Austria
- *Research methods*, intensive course April 2008

### Member of the Committees for the Following Courses

- Faculty of Science, University of Novi Sad, Novi Sad
- *Mathematical Foundations of Computer Science*, 1995 - 2005
  - *Data Organization and Algorithms*, 1995 - 2005
  - *Operating Systems*, 1997 - 2005
  - *Programming Languages and Programming Paradigms*, 1997 - 2005
  - *Compiler Construction*, 1997 – 2005
  - *Expert Systems*, 1997 – 2005
  - *Software Engineering*, 2000 – 2005
  - *Distributed systems*, 2000 – 2005

## Teaching Experience - Undergraduate level

### Taught the Courses

- Faculty of Science, University of Novi Sad, Novi Sad
- *Software engineering* 2004 - present
  - *Operating Systems I* 2003 - present
  - *Operating Systems II* 2003 - present
  - *Software Practice - Visual Programming* 2003 – present
  - *Informatics* 1997 - present
  - *Distance learning - student project* 2005 – present
  - *Software Practice - Web Design* 2003 – 2009
  - *Mobile agents for workflow management systems - student project* 2004 - 2005
  - *Operating Systems* 1995 - 2004
  - *Introduction to Computing* 1995 - 1997

## Publications

Author or co-author of 284 research papers (on software quality, software tools, software metrics, multi-agent systems, mobile agents, implementation of logic and functional programming languages, compiler construction, computer aided instruction systems and combinatorial algorithms) and 16 books.

Enclosed is the list of publications.

## Presentations

Presentations on 121 conferences abroad (Austria 2, Belgium 1, Bulgaria 11, Croatia 6, China 2, Cyprus 1, Czech Republic 2, Finland 1, France 2, Great Britain 4, Greece 12, Germany 6, Hong Kong 2, Hungary 11, India 1, Italy 5, Jordan 4, Lithuania 1, Korea 1, North Macedonia 4, Morocco 1, Nepal

1, The Netherlands 2, Poland 3, Portugal 2, Romania 4, Russia 1, Slovakia 2, Slovenia 10, Spain 3, Turkey 2, UAE 1, USA 7) and on 63 domestic conferences.

## Invited Lectures

20. Ivanović, M., **Budimac, Z.**, On Use of E-learning 2.0 Collaboration Tools within Teamwork in Delivering Software Engineering Courses, Proceedings of DIDINFO 2021, Univerzita Mateja Bela, Banská Bystrica, March 24.-26.3.2021, <http://www.didinfo.net/en/>, Keynote Lecture/Paper, DIDINFO 2021 Univerzita Mateja Bela, Banská Bystrica ISBN 978-80-557-1823-1 ISSN 2454-051X, pp. 12-15.
19. **Budimac, Z.**, Consistent Static Analysis in Multilingual Software Products Development, invited lecture, Jishao, Hunan, China, March 2016.
18. **Budimac, Z.** and Rakić, G., Consistent Static Analysis in Multilingual Software Products Development, invited lecture, In Proc. of the 7th Balkan Conference in Informatics (BCI 2015), Craiova, Romania, September 2-4, 2015, ACM, New York, USA, (Costin Badica, Yannis Manolopoulos, Mirel Cosulschi, George Eleftherakis, Florin Leon, eds), ISBN 978-1-4503-3335-1, <http://dl.acm.org/citation.cfm?id=2801081>, doi: [10.1145/2801081.2801082](https://doi.org/10.1145/2801081.2801082), pp. 1:1-1:6.
17. **Budimac, Z.**, Applicability aspects of static quality analysis, 4th workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2015), Institute of Informatics, Faculty of Electrical Engineering and Computer Science, University of Maribor, Slovenia, June 8 - 10, 2015, [http://2015.sqamia.org/?page\\_id=133](http://2015.sqamia.org/?page_id=133).
16. **Ivanović, M.** and Budimac, Z., Agreement Technologies - Towards Sophisticated Software Agents, Dosam Hwang, Jason J. Jung, Ngoc Thanh Nguyen (Eds.): Computational Collective Intelligence. Technologies and Applications - 6th International Conference, ICCCI 2014, Seoul, Korea, September 24-26, 2014. Proceedings. Springer 2014 Lecture Notes in Computer Science ISBN 978-3-319-11288-6 pp. 1-10, Invited paper.
15. Ivanović M. and **Budimac Z.**, Role of Technologies in Future Formal and Informal Education, InfoKomTeh 2014, International Conference "The new vision of future technologies", Ljubljana, Slovenia, 17. April 2014, pp. 84-98. ISBN 978-961-93662-0-2.
14. Ivanović M. and **Budimac Z.** Software Agents: State-of-the-Art and Possible Applications, Boris Rachev and Angel Smrikarov (Eds.). 2012. *Proceedings of the 13th International Conference on Computer Systems and Technologies*. ACM, New York, NY, USA. Pp. 11-22. Invited Lecture, ISBN: 978-1-4503-1193-9
13. Universidad Autónoma Metropolitana UNIDAD Cuajimalpa, División de Ciencias de la Comunicación y Diseño, Jefe del Departamento de Tecnologías de la Información, Mexico City, Mexico, January 2012. Joint lecture with Mirjana Ivanović: *Overview of Research at University of Novi Sad*
12. Jaingxi University of Science and Technology, Ganzhou, China, December 2011, 1 week invited visit and invited talk: Z. Budimac *Software Measurement and Metrics*
11. Conference InfoKomTeh 2010, Ljubljana, Slovenia, October 27<sup>th</sup>, 2010 (co-lectured with Mirjana Ivanović). *New trends in education – influence of emergent technologies*, Ivanović M., Budimac Z. printed in Conference proceedings, pp. 203-216, ISBN: 978-961-92958-1-6, <http://www.infokomteh.com/Content/Docs/Zbornik%20infokomteh%202010.pdf>
10. Conference Znalosti 2009, Brno, Czech Republic, February 4-6, 2009 (co-lectured with Mirjana Ivanović). *Applications of Case-Based Reasoning*, published in Conference proceedings, pp. 1-12.
9. Higher education reform projects in South Eastern Europe, Kotor, Montenegro, September 2007 (co-lectured with K. Bothe). *Software Engineering: a multilateral educational and research network for South Eastern Europe*, published in Presentation proceedings, pp. 91 – 101.

8. 2<sup>nd</sup> Balkan Conference in Informatics, Ohrid, Macedonia, November 17-19, 2005 (co-lectured with M. Ivanović).  
*Software Engineering Studies – a Step to Virtual University*, published in Conference proceedings, pp. 13 – 21.
7. Autumn School in Computational Intelligence and Information Technologies, Niš, Serbia & Montenegro, October 6-8 2005 (co-lectured with M. Ivanović).  
*Financial predication using case-based reasoning*
6. Workshop on computational intelligence and information technologies, Niš, Serbia-Montenegro, October 9-11, 2003.  
*- Workflow management systems using mobile agents.*
5. Workshop on computational intelligence and information technologies, Niš, Serbia-Montenegro, October 9-11, 2003.  
*- Workflow management systems using mobile agents.*
4. I Yugoslav Conference on Teaching Informatics “NARA 2002”, Novi Sad, Yugoslavia, June 2002, printed in conference proceedings  
*- On suggestions for high-level education of students of computing (in Serbian), pp. 11 - 17.*  
*- Experience in teaching of introductory computing subjects for large groups of students on non-computing curriculum (co-lectured with Putnik, Z.), pp. 89 - 96.*
3. IEEE, Computer science society, Macedonian chapter, Skopje, Macedonia, December 2001, unpublished.  
*- Workflow management systems using mobile agents*
2. Sixth International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria (co-lectured with Ivanović, M. and Szarapka, L.), August 1997, published in *Abstracts of Invited Lectures and Short Communications of VI Int. Colloquium on Numerical Analysis and Computer Science with Applications*, pp. 21, 1997.  
*Higher Order Functions in Matrix Operations*
1. University "St. Cyril & Methodius", Skopje, Macedonia, September 1993, unpublished.  
*A General Intermediate Language for Implementation of Functional Programming Languages*

## Research Contracts

### Principal Investigator

- *Autonomous Vehicles Universities*, since 2018, supported by the CEEPUS under the SI-1313. Local coordinator.
- *Multidimensional quality control for e-business applications*, 2016-2017, bilateral project between Serbia and Slovenia, supported by Ministries of science of both countries; co-headed with Prof. Marjan Heričko.
- *Intelligent techniques and their integration into wide-spectrum decision support*, 2011-2015, supported by Ministry of Education and Science (Republic of Serbia), project no. 174023.
- *Towards a better software metrics tool*, 2010-2012, bilateral project between Serbia and Slovenia, supported by Ministries of science of both countries; co-headed with Prof. Marjan Heričko.
- *CEEPUS network ‘International cooperation in computer science H-81’ 2005 - 2016*, supported by the CEEPUS under the HU-0019. Local coordinator.
- *Joint M.Sc. curriculum in Software Engineering*, 2004 – 2007, supported by Tempus under the grant no CD\_JEP 18035-2003. Coordinator.
- *Software agents in Web services and in the Semantic Web*, 2005-2007, bilateral project between Serbia and Poland, supported by Polish Academy of Science and Serbian Academy of Science and Arts; co-headed with prof. Stanislaw Ambroskievicz.
- *Course development program (CDP+) for ‘Software project management’*, 2006-2007, supported

- by WUS Austria under grant no. 019/2006.
- *Web based course supporting and e-learning system for courses in informatics, e-Learning project, 2006-2007*, supported by WUS Austria under grant no. 05/2006.
- *Development of (intelligent) techniques based on software agents for application in information retrieval and workflow, 2002 - 2006*  
Supported by Ministry of Science and Technologies (Republic of Serbia), project no. 1844.
- *Development of courses for "Methodic of Informatics I" and "Methodic of Informatics II", 2003 - 2004.*  
Supported by World University Service - Austria.
- *Oberon0 as a Case Study in Operating Systems Lectures, 2001 - 2002*  
joint project of the Institute of Mathematics (Novi Sad, Yugoslavia) and Institute of Practical Informatics (Linz, Austria), supported by WUS-Austria and Stability Pact for South Eastern Europe; co-headed with Hanspeter Moessenboeck
- *Distributed Infra-Structure for Workflow, April 1998 - April 1999*,  
supported by Republic of Serbia, Ministry of Science and "Energsoft" (the company specialized in producing applicative software);
- *The Development of Specialized User-Oriented Programming Language for Event Driven Programming, March 1996 - March 1997*,  
supported by Republic of Serbia, Ministry of Science and "Energsoft" (the company specialized in producing applicative software);

### Researcher

- *Infrastructure for technology enhanced learning in Serbia, 2011 – 2015*, supported by Ministry of Education and Science (republic of Serbia), project no. 47003.
- *Abstract methods and applications in computer science, 2006 – 2010*, supported by Ministry of Science and Technologies (Republic of Serbia), project no. 144017.
- *Network education at faculties of science in Serbia, 2007-2008*, supported by Tempus under the grant no SCM-C024B06-2006.
- *Software engineering: Computer science education and research cooperation, 2000 – 2003, 2003 – 2016*  
Joint project of 11 institutions from 8 countries, including Dept. of Mathematics and Informatics (Novi Sad, Serbia), Institute of Informatics (Berlin, Germany), Institute of Informatics (Skopje, Macedonia), and Institute of Computer Science (Plovdiv, Bulgaria), supported by DAAD and Stability Pact for South Eastern Europe;
- *Development of courses for "Educational software I" and "Educational software II", 2003 - 2004.*  
Supported by World University Service - Austria.
- *Multi-Agent Systems and Agent-Oriented Programming, 1999 - 2002*  
joint project of the Institute of Mathematics (Novi Sad, Yugoslavia) and Institute of Computer Science (Warsaw, Poland) supported by Polish Academy of Science and Serbian Academy of Sciences and Arts;
- *Mathematical Structures with Applications, 1996 - 2000*  
supported by Republic of Serbia, Ministry of Science,
- *Computing and Artificial Intelligence, 1993 - 1995*  
supported by Science Fund of Serbia;
- *Mathematical Structures with Applications, 1991 - 1995*  
supported by Science Fund of Serbia;
- *Artificial Intelligence, 1989 - 1993*  
supported by Science Fund of Yugoslavia;
- *Computers and Education, 1988 - 1990*  
supported by Science Fund of AP Vojvodina and Science Fund of Serbia,
- *Artificial Intelligence, 1986 - 1991*  
supported by Science Fund of AP Vojvodina;

### Editorship

- Introduction to the Special Issue on "Engineering and Applications of Software Agents". *Informatica* (Slovenia) 40(1) (2016), guest editorial.  
- together with Amelia Badica.

- Proceedings of 8th workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2019), Ohrid, North Macedonia, September 22-25, 2019. Published by "CEUR workshop proceedings", vol. 2508, urn:nbn:de:0074-2508-8, ISSN: 1613-0073, <http://ceur-ws.org/Vol-2508/>.  
- Editor with: Bojana Koteska
- Proceedings of 7th workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2018), Novi Sad, Serbia, August 27-30, 2018. Also published by "CEUR workshop proceedings", vol. 2217, ISSN: 1613-0073, <http://ceur-ws.org/Vol-2217/>.
- Proceedings of 6th workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2017), Belgrade, Serbia, September 11-13, 2017. Also published by "CEUR workshop proceedings", vol. 1938, ISSN: 1613-0073, <http://ceur-ws.org/Vol-1938/>.
- Proceedings of 5th workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2016), Eötvös Loránd University, Faculty of Informatics, Department of Programming Languages and Compilers, Budapest, Hungary, August 29 - 31, 2016. Also published by "CEUR workshop proceedings", vol. 1677, ISSN: 1613-0073, <http://ceur-ws.org/Vol-1667/>.  
- Editor with: Zoltán Horváth, Tamás Kozsik
- Special issue on "Engineering and applications of software agents", Informatica 40 (2016) 1-1, 2016.  
- Editor with: Amelia Badica
- Proceedings of 4th workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2015), Institute of Informatics, Faculty of Electrical Engineering and Computer Science, University of Maribor, Slovenia, June 8 - 10, 2015. Also published by "CEUR workshop proceedings", vol. 1375, ISSN: 1613-0073, <http://ceur-ws.org/Vol-1375/>.  
- Editor with: Marjan Heričko
- Proceedings of 3rd workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2014), Faculty of Sciences, University of Novi Sad, Novi Sad, ISBN 978-86-7031-374-3, Novi Sad, Serbia, September 19 - 22, 2014. Also published by "CEUR workshop proceedings", vol. 1266, ISSN: 1613-0073, <http://ceur-ws.org/Vol-1266/>.  
- Editor with: Tihana Galinac Grbac
- Proceedings of 2nd workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2013), Faculty of Sciences, University of Novi Sad, Novi Sad, ISBN 978-86-7031-269-2, Novi Sad, Serbia, September 15 - 17, 2013. Also published by "CEUR workshop proceedings", vol. 1053, ISSN: 1613-0073, <http://ceur-ws.org/Vol-1053/>.
- Proceedings of "Balkan Conference in Informatics" (BCI 2012), 5th Balkan Conference in Informatics, Novi Sad, Serbia, September 16-20, 2012, ACM International Conference Proceedings series VOL. 641, ISBN: 978-1-4503-1240-0  
- Editor with: Ivanović, M., Radovanović, M.
- Local proceedings of "Balkan Conference in Informatics" (BCI 2012), 5th Balkan Conference in Informatics, Novi Sad, Serbia, September 16-20, 2012, University of Novi Sad, Faculty of Sciences, ISBN: 978-86-7031-200-5  
- Editor with: Ivanović, M., Radovanović, M.
- Local proceedings of "Advances in Databases and Information Systems" (ADBIS 2010), 14th East European Conference, Novi Sad, Serbia, September 20-24, 2010. University of Novi Sad, 2010, CEUR Workshop Proceedings, Vol-639.  
- Editor with: Ivanović, M., Thalheim, B., Catania, B.
- "Model Driven Software Engineering - Transformations and Tools", The 3rd workshop of the special Interest Group "Model Driven Software Engineering" (SIG MDSE) on Dec. 11-12, in Berlin Germany, Logos Verlag, Berlin, p. 132, 2009. ISBN 978-3-8325-2187-5.  
- Editor with: Roland Petrasch, Florian Fieber, Mirjana Ivanovic, Dragan Macos, and Nils Mitoussis [Hrsg.]
- MASAUM Journal of Computing (<http://www.masaumnet.com/mjc.html>),

- member of editorial board.
- ComSIS journal (Computer Science and Information Systems) (<http://www.comsis.org>),
  - member of editorial board.
- Proceedings of III International Conference on Theoretical Aspects of Computer Science TARA 2000, Novi Sad, Yugoslavia, September 2000.
  - Editor, with Ratko Tošić
- Proceedings of VIII International Conference on Logic and Computer Science LIRA '97 (Theoretical Foundations of Computer Science), Novi Sad, Yugoslavia, September 1997.
  - Editor, with Ratko Tošić
- *Tangenta* - Journal for Mathematics and Computing for High School Students, Novi Sad
  - One of the Editors, since 1995; Member of Editorial Board, since 1997.

## Events Organized

### Chair of Organizing Committee

- *Symposium in Computer Languages, Implementations, and Tools (SCLIT 2015)*, organized within *International Conference on Numerical Analysis and Applied Mathematics ICNAAM 2015*, Rhodes, Greece, 22 – 28. September 2015, <http://perun.dmi.rs/sclit2015>, AIP Conf. Proc. 1738, ISBN: 978-0-7354-1392-4, pp. 240001-1, 2015, DOI: <http://dx.doi.org/10.1063/1.4952020>. Co-chair with Mirjana Ivanović and Gordana Rakić.
- *Symposium in Computer Languages, Implementations, and Tools (SCLIT 2014)*, organized within *International Conference on Numerical Analysis and Applied Mathematics ICNAAM 2014*, Rhodes, Greece, 22 – 28. September 2014, <http://perun.dmi.rs/sclit2014>, AIP Conf. Proc. 1648, ISBN: 978-0-7354-1287-3, pp. 310001-1, 2015, DOI: <http://dx.doi.org/10.1063/1.4912554>. Co-chair with Mirjana Ivanović and Gordana Rakić.
- *Symposium in Computer Languages, Implementations, and Tools (SCLIT 2013)*, organized within *International Conference on Numerical Analysis and Applied Mathematics ICNAAM 2013*, Rhodes, Greece, 21 – 27. September 2013, <http://perun.dmi.rs/sclit2013>, AIP Conf. Proc. 1558, pp. 453, <http://perun.dmi.rs/sclit2012>. Co-chair with Mirjana Ivanović and Gordana Rakić.
- *Symposium in Computer Languages, Implementations, and Tools (SCLIT 2012)*, organized within *International Conference on Numerical Analysis and Applied Mathematics ICNAAM 2012*, Kos, Greece, September 19-25, 2012. AIP Conf. Proc. 1479, pp. 453, <http://perun.dmi.rs/sclit2012>. Co-chair with Mirjana Ivanović and Gordana Rakić.
- *Symposium in Computer Languages, Implementations, and Tools (SCLIT 2011)*, organized within *International Conference on Numerical Analysis and Applied Mathematics ICNAAM 2011*, Halkidiki, Greece, September 19-25, 2011. AIP Conf. Proc. 1389, pp. 791, <http://perun.dmi.rs/sclit2011>. Co-chair with Mirjana Ivanović and Gordana Rakić.
- 10. *International Workshop on Software Engineering Education and Reverse Engineering*, Ivanjica, Serbia, September 6-11, 2010. Co-chair with Gordana Rakić.
- 7. *International Workshop on Software Engineering Education and Reverse Engineering*, Risan, Montenegro, September 9-14, 2007. Co-chair with Mirjana Ivanović and Zoran Putnik.
- 1. *International Workshop on Software Engineering Education and Reverse Engineering*, Novi Sad, September 24-29 2001.
- *Summer School on Programming Languages* (with prof. Hanspeter Mössenböck as a keynote speaker), Novi Sad, July 11-12, 1997.
- *Spring School on Programming Languages*, Novi Sad, April 22-24, 1997. Co-Chair with Mirjana Ivanović.

### Secretary of Organizing Committee

- *Third International Conference on Theoretical Aspects of Computer Science "TARA 2000"*, Novi Sad, September 6-7 2000.
- *Eighth International Conference on Logic and Computer Science "LIRA '97"*, Novi Sad, September 1-4, 1997.

### Member of Organizing Committee



- *Second National Conference on Teaching Informatics (NARA 2003)*, Novi Sad, 2003.
- *First Yugoslav Conference on Teaching Informatics (NARA 2002)*, Novi Sad, June 6-7, 2002.
- *Yugoslav Competition in Informatics*, Novi Sad, April 18-19, 1997.
- *Seventh Yugoslav Conference on Logic and Computer Science "LIRA '95" with International Participation*, Novi Sad, September 26-31 1995.
- *Sixth Yugoslav Conference on Logic and Computer Science "LIRA '92"*, Novi Sad, October 29-31 1992.

#### Member of Steering Committees

- *Balkan Conference in Informatics*, since 2007.

#### Specializations and Short-term research scholarships

- Humboldt University, Institute of Informatics, Berlin, Germany, 1999, three months, DAAD scholarship, *Software engineering*
- Humboldt University, Institute of Mathematics, Berlin, Germany, 1990, three months, Contract between GDR and Yugoslavia, *Implementations of PROLOG*

#### Supervisions

- Supervisor of seven Ph.D. theses (Dragan Simić (2005), Dragoslav Pešović (2007), Zoran Putnik (2014), Gordana Rakić (2015), Doni Pracner (2018))
- Member of eleven Ph.D. thesis committees
  
- Supervisor of nine master's theses
- Member of four Master's theses committees
  
- Supervisor of one Specialist's thesis
- Member of one Specialist's theses committees
  
- Supervisor of more than 200 diploma theses
- Member of more than 120 diploma theses committees

#### Miscellaneous

##### Member of Program Committees

##### Chair

- 4<sup>th</sup> *Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2014)*, Lovran, Croatia, 19 - 22. September 2014, chair, (<http://perun.dmi.rs/sqamia/>).
- 3<sup>rd</sup> *Symposium on Computer Languages, Implementations, and Tools (SCLIT 2013)*, Rhodes, Greece, 21 - 27. September 2013, chair, <http://perun.dmi.rs/sclit2013> (symposium is organized within ICNAAM 2013 (<http://www.icnaam.org/>)).
- 2<sup>nd</sup> *Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2013)*, Novi Sad, Serbia, 15 - 17. September 2013, chair, (<http://perun.dmi.rs/sqamia/>).
- 2<sup>nd</sup> *Symposium on Computer Languages, Implementations, and Tools (SCLIT 2012)*, Kos Island, Greece, 19 - 25. September 2012, chair, <http://perun.dmi.rs/sclit2012> (symposium is organized within ICNAAM 2012 (<http://www.icnaam.org/>)).
- 1<sup>st</sup> *Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2012)*, Novi Sad, Serbia, 16. September 2012, co-chair, (symposium is organized within BCI 2012 (<http://bci2012.bci-conferences.org/>)).  
Co-chair with: Marjan Heričko, Haanu Jakkola, Zoltan Horvath.
- 5<sup>th</sup> *Balkan Conference in Informatics (BCI 2012)*, Novi Sad, Serbia, 16 - 20. September 2012, chair, <http://bci2012.bci-conferences.org/>.
- *Symposium on Computer Languages, Implementations, and Tools (SCLIT 2011)*, Halkidiki, Greece, 19 - 25. September 2011, chair, <http://perun.dmi.rs/sclit2011> (symposium is organized within ICNAAM 2011 (<http://www.icnaam.org/>)).
- 3<sup>rd</sup> *Workshop on Model Driven Software Engineering (MDSE 2008)*, Berlin, Germany, 11 - 12 December 2008, co-chair (with Mirjana Ivanović) <http://www.sig->

[mdse.org/index.php/veranstaltungen/workshops/workshop-08/](http://mdse.org/index.php/veranstaltungen/workshops/workshop-08/)

- *International Workshop on Software Engineering Education and Reverse Engineering*, Plovdiv, September 21-26 2002, co-chair (with Klaus Bothe, K. Zdravkova, and S. Stoyanov).
- *International Workshop on Software Engineering Education and Reverse Engineering*, Novi Sad, September 24-29 2001, co-chair (with Klaus Bothe).
- *Third International Conference on Theoretical Aspects of Computer Science "TARA 2000"*, Novi Sad, September 6-7, 2000, co-chair (with Ratko Tošić).

#### Member

- *Federated Conference on Computer Science and Information Systems, Workshop on Agent Based Computing: from Model to Implementation IX (ABC:MI)*, Wroclaw, Poland, 9 - 12 September, 2012.
- *IADIS International Conference on Information systems 2012*, Berlin, Germany, 10 – 12 March 2012, <http://www.is-conf.org/>
- *E-Learning on the way to knowledge society – 1<sup>st</sup> Serbian conference* Belgrade, Serbia, <http://eucenje.metropolitan.edu.rs/index.html>
- *EAEIE 2011, European Association for Education in Electrical and Information Engineering*, Maribor, Slovenia, 13 – 15 June 2011, <http://eaeie2011.uni-mb.si/>
- *ICIT 2011 – 5<sup>th</sup> International conference on information technology* Amman, Jordan, <http://www.alzaytoonah.edu.jo/ICIT/pages/index.aspx>
- *ADBIS 2010 – 14<sup>th</sup> East-European Conference on Advances in Databases and Information Systems*, Novi Sad, Serbia, <http://perun.dmi.rs/adbis2010>
- *ABC:MI'10 – 7<sup>th</sup> Workshop on Agent-Based Computing: from Model to Implementation*, Wisla, Poland, <http://www.imcsit.org/md/cmt/&sub=219&pars=2>
- *IWESA '09 – 2<sup>nd</sup> International Workshop on Electronic Systems and Applications*, Cairo, Egypt, <http://www.ntms-conf.org/iwesa2009/index.htm>
- *SPLST '09 – 11<sup>th</sup> Symposium on Programming Languages and Software Tools 2009*, Tampere, Finland, <http://www.cs.tut.fi/ohj/splst09/>
- *CISE '09 – Creativity and Innovation in Software Engineering 2009*, Ravda (Nessebar), Bulgaria, 10 – 12 June 2009, <http://www.elearning-conf.org/>
- *IADIS International Conference e-Learning 2009*, Algarve, Portugal, 17 – 20 June 2009, <http://www.elearning-conf.org/>
- *ICIT '09 – 4<sup>th</sup> International conference on information technology 2009*, Amman, Jordan, 3 – 5. June 2009, <http://www.alzaytoonah.edu.jo/ICIT>
- *BCI '09 – 4<sup>th</sup> Balkan Conference in Informatics 2009*, Thessaloniki, Greece, 17 – 19. September 2009, <http://www.bci-conferences.org/bci09/>
- *IADIS e-Health 2009*, as part of *MCCSIS Multi Conference on Computer Science and Information Systems 2009*, Algarve, Portugal, 17 -23 June 2009, <http://www.ehealth-conf.org/committees.asp>
- *MCCSIS Multi Conference on Computer Science and Information Systems 2009*, Algarve, Portugal, 17 -23 June 2009, <http://www.isa-conf.org/>
- *IADIS International Conference Information Systems 2008*, Algarve, Portugal, 9 -11 April 2008, <http://www.isa-conf.org/>
- *WAPL '07, 1<sup>st</sup> Workshop on Advances in Programming Languages*, Wisla, Poland, October 15-17, 2007, <http://www.imcsit.org/index.php?cont=17&type=page&page=13>
- *IADIS International Conference Intelligent Systems and Agents 2007*, Lisbon, Portugal, 3-5 July 2007, <http://www.isa-conf.org/>
- *3<sup>rd</sup> Balkan Conference in Informatics*, Sofia, Bulgaria, September 27 – 29, 2007, <http://bci2007.uni-sofia.bg/>.
- *18<sup>th</sup> International workshop on Implementation and Application of functional Languages*, Budapest, Hungary, September 4 – 6, 2006, <http://www.inf.elte.hu/rendezvenyek/ifl/>.
- *2<sup>nd</sup> International conference on intelligent computer communication and Processing ICCP 2006*, Cluj-Napoca, Romania, September 1 – 2, 2006.
- *2<sup>nd</sup> Balkan Conference in Informatics – 2005*, Ohrid, Macedonia, November 17-19, 2005.
- *IADIS (International Association for Development of the Information Society) Informatics 2005 conference* (within Multi-Conference on Computer Science and Information systems), 11-29. April 2005.
- *First Balkan Conference in Informatics*, Thessaloniki, Greece, November 2003.
- *First Yugoslav Conference on Teaching Informatics (NARA 2002)*, Novi Sad, June 6-7, 2002.

- *Eighth International Conference on Logic and Computer Science "LIRA '97"*, Novi Sad, September 1-4 1997.
- *Seventh Yugoslav Conference on Logic and Computer Science "LIRA '95" with International Participation*, Novi Sad, September 26-31 1995.

#### Referee for

- competition for a national "ICT case" students' competition, organized by WUS Austria, Novi Sad, March 2007.
- three international conferences (*TARA 2000*, Third Int. Conf. on Theoretical Aspects on Computer Science, Novi Sad, Yugoslavia; *LIRA '97*, Eighth Int. Conf. on Logic and Computer Science, Novi Sad, Yugoslavia; *ICCI '92*, Fourth Int. Conf. on Computing and Information, Toronto, Canada)
- six domestic conferences (*PRIM 2002, 2000, 98, 96* - XVI, XIV, XIII, and XII Conf. on Applied Mathematics, Subotica, Subotica, and Budva, Yugoslavia; *LIRA '95*, VII Conference on Logic and Computer Science with International Participation, Novi Sad, Yugoslavia; *PRIM 95*, XI Conf. on Applied Mathematics, Budva, Yugoslavia;)
- two international journals (*Novi Sad Journal of Mathematics*, Faculty of Science, Novi Sad, Yugoslavia, since 1997; *FILOMAT*, University of Niš, Niš, Yugoslavia, since 1995;)

and several books in Serbian.

#### Member of

- Board for improvement of high-school curricula in informatics, appointed by the "Office for improvement of education", Republic of Serbia, 2005-2006.
- Scientific Board of Republic Center for Talents, Belgrade, 1999 - 2002.
- Matica Srpska, since 1993.
- Lexicographical and Bio-Bibliographical Committee of "Matica Srpska", Novi Sad, since 1993.

#### Professional Society Memberships

- DAAD Alumni of Univ. of Novi Sad, since 2001.
- EAPLS (European Association for Programming Languages and Systems,) since 1997.
- IEEE (The Institute of Electrical and Electronics Engineers, Inc) - Computer Society, 1989 - 2004.
- DECUS (DEC Users Society,) 1989 - 1999.

#### Reviewer for

- ACM Computing Reviews, 1993 - 2002.

#### Programming Languages used for Teaching/Research

Java, Oberon-2, Modula-3, Modula-2, LISP, PROLOG, major functional programming languages.

#### Practical Experience in Operating Systems and Hardware Architectures

- Personal Computers & Windows 95, Windows NT, Unix (Linux), and MS-DOS,
- Micro Computers & CP/M
- micro VAX II & VAX/VMS

#### Experience in Developing of Commercial Software Products

in Delphi & Oracle under Windows 95/98/NT, Novell Netware, and Linux

- *Information Retrieval Package for subscribers of early Serbian books*, for "Matica Srpska" (Historical Cultural Institution of Serbs), 2002.
- *AMC Business Software*, for Alfa Metalcraft (AMC) in Yugoslavia, Hungary, and Slovakia, 1999.
- *Members of "Matica Srpska"*, for "Matica Srpska" (Historical Cultural Institution of Serbs), 1999.
- *General Ledger*, for a number of institutions, 1998 - 1999.
- *Information Retrieval Package for Biographic Glossary*, for "Matica Srpska" (Historical Cultural Institution of Serbs), 1998.

in Clipper under MS-DOS

- *Information Retrieval Package for Biographic Glossary*, for Documentation Center of "Sterijino Pozorje" (Yugoslav Theater Museum), 1988 and Documentation Center of "Matica Srpska" (Historical Cultural Institution of Serbs), 1992, 1994, 1997.

- *Payroll, Accounting, General Ledger ...*, for a number of institutions, 1985-1992.
- *Information System for Science Funds and References*, for science fund of autonomous province of Vojvodina, 1991-1992.
- *Authoring System "OSOF"*, for Ministry of Education of AP Vojvodina, 1990.
- *Package for Statistics of Sport Events*, for Television of Novi Sad, 1988.
- *Support for Basketball Contests*, for European Junior Basketball Championship held in Yugoslavia, 1988.
- *Information Retrieval Package for Bibliographic Databases in Theatrology*, for Documentation Center of "Sterijino Pozorje" (Yugoslav Theater Museum), 1986, 1988.
- *(a part of) Hotel Information System*, for a number of hotels in Novi Sad, 1986-87.
- *The Fair Information System*, for International Fair of Agriculture held in Novi Sad, 1985.

## List of Publications

### Dr. Zoran Budimac

(January 24, 2023)

## Research Papers

### I Research Papers in International Journals

56. Rakic, G., Toth, M., **Budimac, Z.**, Toward recursion aware complexity metrics. Information and software technology, vol. 118, February 2020, <https://doi.org/10.1016/j.infsof.2019.106203>.
55. Klasnja-Milicevic, A., Ivanovic, M., Vesin, B., **Budimac, Z.**, Enhancing e-learning systems with personalized recommendation based on collaborative tagging techniques. Applied Intelligence 48(6), pp. 1519-1535 (2018).
54. Pracner, D., **Budimac, Z.**, Enabling code transformations with FermaT on simplified bytecode. Journal of Software: Evolution and Process 29(5) (2017), DOI: 10.1007/s10489-017-1051-8.
53. Klasnja-Milicevic, A., Ivanović, M., **Budimac, Z.**, Data science in education: Big data and learning analytics (Review), Computer Applications in Engineering Education 25 (6):1066-1078 (2017).
52. Ivanović, M., Vidaković, M., **Budimac, Z.**, Mitrović, D., A scalable distributed architecture for client and server-side software agents. *Vietnam J. Computer Science* 4(2): 127-137 (2017)
51. Putnik, Z., Štajner-Papuga, I., Ivanović, M., **Budimac, Z.**, Zdravkova, K., Gender related correlations of computer science students. Computer in Human Behavior, Elsevier, Vol. 69, April 2017, pp. 91-97, ISSN: 0747-5632, DOI: 10.1016/j.chb.2016.12.009, 2016.
50. Klasnja-Milicević, A., Vesin, B., Ivanović, M., **Budimac, Z.**, Jain, L.C., E-Learning Systems, Intelligent Techniques for Personalization, Intelligent Systems Reference Library, Volume 112, Springer International Publishing, 2017, p.294, DOI 10.1007/978-3-319-41163-7, Print ISBN 978-3-319-41161-3.
49. Mitrović, D., Ivanović, M., Vidaković, M., **Budimac, Z.**, The Siebog multiagent middleware. Knowledge based systems 103, pp. 56-59 (2016).
48. Mitrović, D., Ivanović, M., Vidaković, M., **Budimac, Z.**, Siebog: An Enterprise-Scale Multiagent Middleware. Information Technology and Control ITC 45(2), pp. 164-174 (2016).
47. Putnik Z., Ivanović M, **Budimac Z.**, Bothe K., Partial Solution for a Problem of Developing a Large Number of eLearning Resources, International Journal of Human Capital and Information Technology Professionals, Volume 7, Issue 3, July-September 2016, pp. 63- 75.
46. Šumak, B., Heričko, M., **Budimac, Z.**, Pušnik, M.: Investigation of moderator factors in e-business adoption: A quantitative meta-analysis of moderating effects on the drivers of intention and behavior. Computer Science and Information Systems (ComSIS), in print.
45. Ivanović, M., **Budimac, Z.**, Radovanović, M., Kurbalija, V., Dai, W., Badica, C., Colhon, M., Ninković, S., Mitrović, D., Emotional agents - state of the art and applications. Computer Science and Information Systems (ComSIS) 12 (4), pp. 1121-1148 (2015)
44. Ivanović, M., **Budimac, Z.**, Agreements Technologies - Towards Sophisticated Software Agents in Multi-agent Environments. T. Computational Collective Intelligence 18, 2015, pp. 105-126.

43. Ivanović, M., Mitrović, D., **Budimac, Z.**, Jerinić, Lj, Badica, C., HAPA: Harvester and pedagogical agents in e-learning environments. *International Journal of Computers, Communications & Control*, 10(2):200–210, April 2015.
42. Pušnik, M., Heričko, M., **Budimac, Z.**, and Šumak, B., XML Schema metrics for quality evaluation, *Computer Science and Information Systems (ComSIS)*, Vol. 11, No. 4. (2014) DOI: 10.2298/CSIS140815077P, ISSN: 1820-0214 (Print) 2406-1018 (Online), pp. 1271 - 1289.
41. Savić, M., Rakić, G., **Budimac Z.**, Ivanović M., A language-independent approach to the extraction of dependencies between source code entities. *Information and Software Technology* 56 (2014), Elsevier, DOI: 10.1016/j.infsof.2014.04.011, pp.1268-1288.
40. Ivanović M., **Budimac Z.**, An Overview of Ontologies and Data Resources in Medical Domains, *Expert Systems with Applications*, (11): 5158-5166, 2014, DOI: 10.1016/j.eswa.2014.02.045.
39. Ivanović M., **Budimac Z.**, Putnik, Z., Komlenov, Ž., Encouraging Teamwork, Web 2.0, and Social Networking Elements in Distance Learning, chapter 5 in "Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills" (Liguo Yu, ed.), IGI Global book series *Advances in Higher Education and Professional Development*, ISSN: 2327-6983, pp. 71 - 90.
38. Komlenov, Ž., **Budimac Z.**, Putnik, Z., Ivanović M., Wiki as a Tool of Choice for Students' Team Assignments, *International Journal of Information Systems and Social Change*, 4(3), 1-16, 2013, DOI: 10.4018/jissc.2013070101, pp. 1 - 16.
37. Mitrović, D., Ivanović, M., **Budimac, Z.**, Vidaković, M., Radigost: interoperable web-based multi-agent platform. In *Journal of systems and software*, DOI 10.1016/j.jss.2013.12.029, 2014, 90:167-178, April 2014.
36. Budimac, Z., Putnik, Z., Ivanović, M., Bothe, K., Zdravkova, K. and Jakimovski, B., Multi-Country Experience in Delivering a Joint Course on Software Engineering - Numerical Results, *The International Review of Research in Open and Distance Learning*, Vol. 15, No. 1, 2014, pp. 84-110, <http://www.irrodl.org/index.php/irrodl/article/view/1636/2811>
35. Vesin, B., Ivanović, M., Klačnja-Milićević, A., **Budimac, Z.**, Ontology-Based Architecture with Recommendation Strategy in Java Tutoring System. *Computer Science and Information Systems*, Vol. 10, No. 1, 237-261. (2013)
34. Ivanović, M., **Budimac, Z.**, Mishev, A., Bothe, K., Jurca, I., Java across different curricula, Courses and Countries Using a Common Pool of Teaching Material, *Informatics in Education Journal*, *Informatics in Education Journal*, Vol. 12, No. 2, 2013, pp. 153-179, ISSN 1648-5831.
33. Vesin B., Ivanović M., Klačnja-Milićević A., **Budimac Z.**, Protus 2.0: Ontology-based semantic recommendation in programming tutoring system, *Expert Systems with Applications*, in print (2013).
32. Mitrović, D., Ivanović, M., **Budimac, Z.**, Vidaković, M., Supporting heterogeneous agent mobility with ALAS. *Comput. Sci. Inf. Syst. (ComSIS Journal)* 9(3): 1203-1229 (2012).
31. Gerlec, Č., Rakić, G., **Budimac, Z.**, Heričko, M., A programming language independent framework for metrics-based software evolution and analysis. *Comput. Sci. Inf. Syst. (ComSIS Journal)*, 9(3): 1155-1186 (2012).
30. Budimac, Z., Putnik, Z., Ivanovic, M., Bothe, K., A View on a Successful International Educational Project in Software Engineering, *e-Informatica Software Engineering Journal*, Vol. 6, Issue 1, pp. 47-59, DOI: 10.5277/e-Inf120104, 2012, <http://www.e-informatyka.pl/wiki/e-Informatica>
29. Mitrović, D., **Budimac, Z.**, Ivanović, M., Vidaković, M., Agent-based approaches to managing fault-tolerant networks of distributed multi-agent systems. In *Multiagent and Grid Systems*, IOS Press, DOI 10.3233/MGS-2011-0176, Vol. 7, No. 6, pp. 203-218, 2011.

28. **Budimac, Z.**, Putnik, Z., Ivanović, M., Bothe, K., Schuetzler, K., On the Assessment and Self-Assessment in a Students Teamwork Based Course on Software Engineering", *Computer Applications in Engineering Education*, 2009, DOI 10.1002/cae.20249 , Volume 19, Issue 1, Wiley Periodicals, Inc., A Wiley Company, March 2011, pp. 1-9.
27. Vesin B., Klačnja-Milićević, A., Ivanović M., **Budimac Z.**, Applying Recommender Systems and Adaptive Hypermedia for e-Learning Personalization, *Computing and Informatics*, Vol 32, No 3, 2013, pp. 629-659.
26. Janković Z., Ivanović M., **Budimac Z.**, Possibilities for Functional Improvement of B2B Systems on Serbian Market, *Acta Electrotechnica et Informatica*, Volume 11, Number 1 / 2011, pp. 3-13.
25. Ivanović, M., Putnik, Z., Šišarica, A., **Budimac, Z.**, The IT Gender Gap: Experience, Motivation and Differences in Undergraduate Studies of Computer Science, *The Turkish Online Journal of Distance Education - TOJDE*, April 2011, Vol. 12, Nr. 2, Article 12, <http://tojde.anadolu.edu.tr/tojde42/>, 2011.
24. Klačnja-Milićević A., Vesin B., Ivanović M., and **Budimac Z.**, E-Learning Personalization Based on Hybrid Recommendation Strategy and Learning Style identification, *Computers & Education Journal*, Volume 56, Issue 3, April 2011, Pages 885-899.
23. Pešović D., Vidaković M., Ivanović M., **Budimac Z.** and Vidaković J., Usage of Agents in Document Management, *ComSIS Journal*, Vol. 8, No. 1, January 2011, pp. 193-210.
22. Badica C., **Budimac Z.**, Burkhard D., Ivanović M., Software Agents: Languages, Tools, Platforms, *Computer Science and Information Systems (ComSIS)*, invited paper, Vol. 8, No. 2, May 2011, pp. 255-298.
21. Klačnja-Milićević A., Vesin B., Ivanović M., and **Budimac Z.**, Integration of Recommendations and Adaptive Hypermedia into Java Tutoring System, *ComSIS Journal*, Vol. 8, No. 1, January 2011, pp. 211-224.
20. Ivanović M., Putnik Z., Šišarica A., **Budimac Z.**, A Note on Performance and Satisfaction of Female students Studying Computer Science, *ITALICS Journal*, Vol. 9 Issue 1, February 2010, pp.32-41. <http://www.ics.heacademy.ac.uk/italics/vol9iss1.htm>
19. Komlenov, Ž., **Budimac, Z.**, Ivanović, M., Introducing Adaptivity Features to a Regular Learning Management System to Support Creation of Advanced eLessons, *Informatics in Education Journal*, accepted.
18. Bothe, K., **Budimac, Z.**, Cortazar, R., Ivanović, M., Zedan H., Development of a Modern Curriculum in Software Engineering at Master Level across Countries, *Computer Science and Information Systems (ComSIS)*, invited paper, Vol. 6, No. 1, June 2009, pp. 1-21.
17. Putnik, Z., Ivanović M., **Budimac Z.**, A practical model for Conversion of Existing Teaching Resources into Learning Objects, *MASAUM Journal of Computing (MJC – ISSN: 2076-0833)*, Vol. 1, No. 2, 2008. pp. 205-214.
16. Radovanović M., Ivanović M., **Budimac Z.**, Text Categorization and Sorting of Web Search Results, *Computing and informatics*, Vol. 28, 2009, pp. 861 – 893.
15. Vesin, B., Ivanović, M., **Budimac, Z.**, Learning Management System for Programming in Java, *Annales universitatis scientiarum de Rolando Eotvos nominatae, Sectio Computatorica, (Annales Univ. Sci. Budapest.), Sect. Comp.* 31 (2009), pp. 75-92.
14. Pribela, I., Ivanović, M., **Budimac, Z.**, Svetovid – interactive development and submission system with

prevention of academic collusion in computer programming, *British Journal of Educational Technology*, vol. 40, no. 6, 2009, pp. 1076 – 1093.

13. Kurbalija, V., Ivanović, M., **Budimac, Z.**, Case-based curve behavior prediction, *Software practice and experience*, Vol. 39 (1), 2009, pp. 81-103, (ISSN: 0038-0644), published online: Jul 17 2008 12:12PM, DOI: 10.1002/spe.891)
12. **Budimac, Z.**, Putnik, Z., Ivanović, M., Bothe, K., Schuetzler, K., Conducting a Joint Course on Software Engineering Based on Students Teamwork, *Informatics in Education* vol. 7(1), 2008, pp.17-30..
11. Bothe, K., **Budimac, Z.**, Cortazar, R. and Zedan, H., Developing a joint software engineering masters curriculum across countries, *e-Journal Italics* vol. 6(3), July 2007, pp. 87-96.  
<http://www.ics.heacademy.ac.uk/italics/vol6iss3.htm>
10. Bothe, K., Schützler, K., **Budimac, Z.**, Zdravkova, K., Bojić, D., Stoyanov, S., JCSE - ein länderübergreifendes Multimediaprojekt zur Lehre in der Softwaretechnik, *Softwaretechnik-Trends* vol. 24(2), 2004.
9. Bađonski, M., Ivanović, M., and **Budimac, Z.**, Adaptable Java Agents (AJA) - a Tool for Programming of Multi-Agent Systems, *SIGPLAN Notices*, vol. 40(2), Feb. 2005, 17-26.
8. Pešović, D. and **Budimac, Z.**, Advanced Joint-Paper Worker. *CCS Journal* 4(2003), pp. 44-46 (publisher: Cyprus Computer Society, Cyprus).
7. Blažević, M., **Budimac, Z.**, and Ivanović, M., Theoretical Foundations of an Environment-Based Multiparadigm Language. *Informatica* 11 (2000) 1, 3 - 14 (publisher: Lithuanian Academy of Sciences, Vilnius, Lithuania).
6. Bađonski, M., Ivanović, M., and **Budimac, Z.**, Agent-Oriented Programming Language *LASS*. In *Proc. of COTSR '98* (Oxford, England), chapter in a book of a book of "Object-oriented technology and computing systems re-engineering": Edited by H. Zedan and A. Cau. Horwood Publishing, Chichester. (2000). 197 pages.
5. Ivanović, M. and **Budimac, Z.**, A Definition of an ISWIM-like Language via Scheme, *SIGPLAN Notices* 28 (1993) 4, pp. 29-38.
4. Tošić, R., **Budimac, Z.**, Cyvin, S. J. and Brunvoll, J., Enumeration and Classification of Benzenoid Hydrocarbons - Part XIII. Catacondensed Dihedral Systems, *J. Mol. Struct. (Theochem)* 247 (1991), 129-133.
3. Putnik, Z., **Budimac, Z.** and Ivanović, M., Turtle Walk Through Functional Language, *SIGPLAN Notices* 26 (1991) 2, 75 - 82.
2. Tošić, R., **Budimac, Z.**, Brunvoll, J. and Cyvin S. J., Enumeration and Classification of Benzenoid Hydrocarbons - Part XII. Catacondensed Systems of Regular Trigonal Symmetry, *J. Mol. Struct. (Theochem)* 209 (1990), 289 - 302.
1. Ivanović, M. and **Budimac, Z.**, Involving Coroutines in Interaction between Functional and Conventional Language, *SIGPLAN Notices* 25 (1990) 11, 65 - 74.

## II Research Papers in National Journals

17. Putnik, Z., **Budimac, Z.**, Ivanović, M., Iskustva i pozitivni efekti dugogodisnjeg uspešnog međunarodnog obrazovnog projekta, (Experiences and Positive Effects of a Longlasting Successful International Educational Project), *Info M* 45/2013, pp. 4-10, ISSN: 1451-4397, UDC 378.014.24:005.963(4), <http://www.infom.org.rs/> (in Serbian)
16. **Budimac, Z.**, Putnik, Z., Ivanović M., Bothe K., Transnational Cooperation in Higher Education in Balkan



Countries, Novi Sad Journal of Mathematics - NSJOM, Vol. 43, No. 1, pp. 167-177, 2013.

15. Kurbalija, V., **Budimac, Z.**, Case-based reasoning framework for generating decision support systems, *Novi Sad J. Math*, Vol. 38, No. 3, 2008, pp. 219-226.
14. Ivanović, M., Pribela, I., Vesin, B., **Budimac, Z.**, Multifunctional Environment for e-learning Purposes, *Novi Sad J. Math*, Vol. 38, No. 2, 2008, pp. 153-170.
13. **Budimac Z.**, Pešović D., Ivanović M., Ibrajter N., Lessons Learned from an Implementation of a Workflow Management System Using Mobile Agents, *Novi Sad J. Math*. 36 (2006) 2, pp. 65-79.
12. Badjonski, M., Ivanović, M., and **Budimac, Z.**, An Approach to Agent Implementation Using Java, *Novi Sad J. Math* 28 (1998) 2, 187-205 (Publisher: Faculty of Science, University of Novi Sad, Novi Sad).
11. **Budimac, Z.** Mašulović, D., Linda as an Abstract Data Type for Concurrent Programming, *Novi Sad J. Math* 28 (1998) 2, 173-186 (Publisher: Faculty of Science, University of Novi Sad, Novi Sad).
10. Szarapka, L. and **Budimac, Z.**, Determining Module Dependencies in Modular Programs, *FILOMAT* (Niš) 9:2 (1995), 303-313.
9. Ivanović, M., Živkov, S. and **Budimac, Z.**, On Transformation of Context Free Grammars into a Form Suitable for Use in Compiler Generators, *Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat.* 22, 1 (1992), 179-193, 1992.
8. Acketa, D. M., **Budimac, Z.** and Tošić, R., A Construction of "Small" Bipartite Graphs, *Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat.* 21, 2 (1991), 161-173.
7. Kurbalija, V., Ivanović, M., **Budimac, Z.**, CBR - Case Based Reasoning, *Info-M* 5(2003), 14-19, (in Serbian).
6. Živkov, S., **Budimac, Z.**, and Ivanović, M., Functional Programming Language ISWIM/NS, *Info-Science* 1/97 (1997) 1, 40 - 49, (in Serbian).
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3. Ivanović, M. and **Budimac, Z.**, Automatic Translation of EBNF Grammar Rules into BNF ones, *Informatica* 12 (1988) 4, 49 - 54.
2. Ivanović, M. and **Budimac, Z.**, The Grammar of Typed Pascal Expressions, *Informatika* 20 (1986) 3, 153 - 160, (in Serbian).
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### III Papers in Proceedings of International Conferences

200. Ivanović, M., **Budimac, Z.**, On Use of E-learning 2.0 Collaboration Tools within Teamwork in Delivering Software Engineering Courses, Proceedings of DIDINFO 2021, Univerzita Mateja Bela, Banská Bystrica, March 24.-26.3.2021, <http://www.didinfo.net/en/>, Keynote Lecture/Paper, DIDINFO 2021 Univerzita Mateja Bela, Banská Bystrica ISBN 978-80-557-1823-1ISSN 2454-051X, pp. 12-15.
199. Sukur, N., Pracner, D., **Budimac, Z.**, Fitness Functions and Transformations in an Automated Process. In Proc. of 8<sup>th</sup> Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA 2019), Ohrid, North Macedonia, September 22-25., 2019., CEUR Workshop Proceedings 2508, urn:nbn:de:0074-2508-8, ISSN: 1613-0073, <http://ceur-ws.org/Vol-2508/>, pp. 17:1-17:10.

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197. Vislavski, T., Rakić, G., Cardozo, N., **Budimac, Z.**, LICCA: A tool for cross-language clone detection. In Proc. of 25th International Conference on Software Analysis, Evolution and Reengineering, SANER 2018, Campobasso, Italy, March 2018. IEEE Computer Society 2018, ISBN 978-1-5386-4969-5, pp. 512-516.
196. Savić, M., Ivanović, M., Putnik, Z., Tütüncü, K., **Budimac, Z.**, Smrikarova, S., Smrikarov, A., Analysis of ERASMUS staff and student mobility network within a big European project. 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017, Opatija, Croatia, May 22-26, 2017. IEEE 2017, ISBN 978-953-233-090-8, pp. 613-618, 2017.
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**(January 24, 2023)**

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