

Dr. Zoran Budimac

Curriculum Vitae

(December 17, 2007)

Address:

Department of Mathematics and Informatics
Faculty of Science
University of Novi Sad

Trg D. Obradovića 4
21000 Novi Sad
Serbia

phone: +381-21-458-888
fax: +381-21-6350-458
e-mail: zjb@im.ns.ac.yu
http:// perun.im.ns.ac.yu/budimac/

Home Address:

Narodnog fronta 72/144
21000 Novi Sad
Yugoslavia

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

- Distributed Programming, Mobile Agents, Operating Systems, System Programming
- 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
- 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, 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 university council for natural sciences and mathematics, 2007 - present
University of Novi Sad,
- Head of the Computer Science Chair, 2002 - present
Dept. of Mathematics and Informatics, Faculty of Science, Novi Sad
- Head of the Computing Laboratory, 2002 - 2006
Dept. of Mathematics and Informatics, Faculty of Science, Novi Sad
- Member of the Council, 2000 - present
Dept. of Mathematics and Informatics, Faculty of Science, Novi Sad

Teaching Experience - Graduate level

Taught the Courses

Faculty of Science, University of Novi Sad, Novi Sad	
• <i>Research Methods,</i>	2007 - present
• <i>Architecture, Design and Patterns,</i>	2006 – present
• <i>Advanced Topics in Software Engineering,</i>	2006 – present
• <i>Software Engineering,</i>	2003 - 2005
Faculty of Informatics, Eotvos Lorand University, Budapest, Hungary	
• <i>Introduction to formal methods,</i> crash course	March 2007

Member of the Committees for the Following Courses

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

Teaching Experience - Undergraduate level

Taught the Courses

Faculty of Science, University of Novi Sad, Novi Sad	
• <i>Software engineering</i>	2004 - present
• <i>Operating Systems I</i>	2003 - present
• <i>Operating Systems II</i>	2003 - present
• <i>Software Practice (Web Design, Visual Programming)</i>	2003 - present
• <i>Informatics</i>	1997 - present
• <i>Distance learning - student project</i>	2005 - present
• <i>Mobile agents for workflow management systems - student project</i>	2004 - 2005
• <i>Operating Systems</i>	1995 - 2004
• <i>Introduction to Computing</i>	1995 - 1997

Publications

Author or co-author of 156 research papers (on multi-agent systems, mobile agents, implementation of logic and functional programming languages, compiler construction, system programming, computer aided instruction systems and combinatorial algorithms) and 14 books.

Enclosed is the list of publications.

Presentations

Presentations on 53 conferences abroad (Austria 1, Bulgaria 6, Croatia 1, China 2, Czech Republic 2, Finland 1, France 2, Great Britain 4, Greece 2, Germany 3, Hungary 8, India 1, Italy 1, Lithuania 1, Macedonia 3, Nepal 1, The Netherlands 1, Poland 2, Portugal 1, Russia 1, Slovenia 4, Turkey 1, USA 4) and on 53 domestic conferences.

Invited Lectures

8. 2nd Balkan Conference in Informatics, Ohrid, Macedonia, November 17-19 2005 (co-lectured with M. Ivanović).
Software Engineering Studies – a Step to Virtual University.

7. Autumn School in Computational Intelligence and Information Technologies, Niš, Serbia & Montenegro, October 6-8 2005 (co-lectured with M. Ivanović).
Financial prediction 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

- *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, 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

- *Abstract methods and applications in computer science, 2006 - 2010*
Supported by Ministry of Science and Technologies (Republic of Serbia), project no. 144017.
- *Software engineering: Computer science education and research cooperation, 2000 – 2003, 2003 – 2007*
Joint project of the Institute of Mathematics (Novi Sad, Yugoslavia), 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

- ComSIS, an international journal, Belgrade, Serbia & Montenegro.
- 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
- *Tangentia* - 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

- *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 Committee

- *Balkan Conference in Informatics*, since 2007.

Specializations and Short-term research scholarships

- Humboldt University, Institute of Informatics, Berlin, Germany: 1999, two months; 2001, two weeks; 2002, one month, 2003, two months; 2004 two months, 2005 two months; 2006 two months, 2007 one month;
- Humboldt University, Department of Mathematics, Berlin, Germany, 1990, three months
Implementations of PROLOG

Supervisions

- Supervisor of one Ph.D. thesis
- Member of two Ph.D. thesis committees

- Supervisor of six master's theses
- Member of four Master's theses committees

- Supervisor of one Specialist's theses committee
- Member of one Specialist's theses committees

- Supervisor of more than 50 diploma theses
- Member of more than 20 diploma theses committees

Miscellaneous

Member of Program Committees

Chair

- *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

- *IADIS International Conference Information Systems 2008*, Algarve, Portugal, 9 -11 April 2008, <http://www.is-conf.org/>
- *WAPL '07, 1st 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/>

- 3rd *Balkan Conference in Informatics*, Sofia, Bulgaria, September 27 – 29, 2007, <http://bci2007.uni-sofia.bg/>.
- 18th *International workshop on Implementation and Application of functional Languages*, Budapest, Hungary, September 4 – 6, 2006, <http://www.inf.elte.hu/rendezvenyek/ifa/>.
- 2nd *International conference on intelligent computer communication and Processing ICCP 2006*, Cluj-Napoca, Romania, September 1 – 2, 2006.
- 2nd *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

- 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 Yugoslav 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, since 1989.
- 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

(December 17, 2007)

Research Papers

I Research Papers published in International Journals

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, in print.
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.
<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 'Computer Science and Electronic Eng.' Series, Horwood Publ. (Cau, D., Zedan, H., eds.), in print, 1998. Draft version of the paper is published in the separate Conference Proceedings.
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 published in Yugoslav International Journals

6. **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.
5. 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).
4. **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).
3. Szarapka, L. and **Budimac, Z.**, Determining Module Dependencies in Modular Programs, *FILOMAT* (Niš) 9:2 (1995), 303-313.
2. 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.
1. 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.

III Research Papers published in National Journals

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).
5. Surla D. and **Budimac, Z.**, Detection of the Intersection of two simple Polyhedra, *Informatica* 14 (1990) 1, 49 - 54.
4. Jerinić, Lj., **Budimac, Z.**, Paunić, Đ. and Ivanović, M., An Application of Knowledge Engineering Methods in Computer Aided Instruction, *Informatica* 13 (1989) 4, 69 - 71, (in Serbian).
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).
1. Krstić, M. and **Budimac, Z.**, On Microcomputer Support for Manifestation - an Application of dBASE II, *Praksa* 21 (1986) 5, 59 - 64, (in Serbian).

IV Papers published in Proceedings of International Conferences

62. Putnik Z., Ivanović M., **Budimac Z.**, Personalized E-Learning – Issues and Obstacles, In *Proc. of 3rd Balkan Conference in Informatics BCI '2007*, (Sofia, Bulgaria), pp.
61. Kovačević M., Putnik Z., Budimac Z., Ivanović M., Document Management Within Oracle© Wfms – Upgraded Version, In *Proc. of 3rd Balkan Conference in Informatics BCI '2007*, (Sofia, Bulgaria), pp.
60. Pribela I., Ivanović M., Budimac Z., Testing Almost Any Aspect Of Students' Assignments, In *Proc. of 3rd Balkan Conference in Informatics BCI '2007*, (Sofia, Bulgaria), pp.

59. Putnik Z., Ivanović M., **Budimac Z.**, Ethical Aspects of Informatics, In *Proc. of International Conference on Computer Systems and Technologies CompSysTech 07*, (Rousse, Bulgaria), pp. IV.24-1 - IV.24-6.
58. Kovačević M., Putnik Z., **Budimac Z.**, Ivanović M., An Example of Oracle© WfMS Upgrade for the Purpose of Document Management, In *Proc. of International Conference on Computer Systems and Technologies CompSysTech 07*, (Rousse, Bulgaria), pp. IIIB.20-1 - IIIB.20-9.
57. Vesin B., Ivanović M., **Budimac Z.**, Tutoring System for Distance Learning of Java Programming Language, In *Proc. of 10th Symposium on Programming Languages and Software Tools SPLST 2007*, June 14-16, 2007, Dobogókő, Hungary, pp. 310-320.
56. Kurbalija V., Ivanović M., **Budimac Z.**, Semnic M., Multiple Sclerosis Diagnoses - Case-Base Reasoning Approach, In *Proc. of 20th IEEE International Symposium on Computer based medical systems*, (Maribor, Slovenia), June 20-22 2007, pp 65-71.
55. Pešović D., Ivanović M., **Budimac Z.**, Implementation of Advanced Workflow Patterns in a Workflow Management System Using Mobile Agents, In *Proc. of International Conference on Software Engineering Theory and Practice (SETP-07)*, Orlando, Florida (in print)
54. Bothe, K., **Budimac, Z.**, Cortazar, R., Zedan, H., Developing a joint software engineering master's curriculum across countries: report on an ongoing multi-national educational project. In *Proc. of 'Informatics education Europe*, Montpellier, France, 2006.
53. Badjonski, M., Ivanović, M., **Budimac, Z.**, AJA – Tool for programming adaptable agents. In *Proc. of 3rd IFIP Conference on Artificial Intelligence Applications and Innovations (AIAI) 2006*, Springer, ISBN 0-387-34223-0, pp. 524-532.
52. Bothe, K., Schützler, K., **Budimac, Z.**, Zdravkova, K., Collaborative Development of a Joint Web-Based Software Engineering Course across Countries. In *Proc. of 35th ASEE/IEEE Frontiers in Education Conference*, 2005, pp. T1A-1 – T1A-5.
51. Pešović, D., **Budimac, Z.**, Supporting Process Definition Interchange in a Workflow Management System Using Mobile Agents. In *Proc. of 2nd Balkan Conference in Informatics*, Ohrid, Macedonia, 2005, pp. 470-480.
50. Ivanović, M., **Budimac, Z.**, Software Engineering Studies – a step to virtual university. In *Proc. of 2nd Balkan Conference in Informatics*, 2005, Kon-Popovska, M., Zdravkova, K., eds., invited lecture, pp. 13-21.
49. Simić, D., **Budimac, Z.**, Kurbalija, V., Ivanović, M., Case based reasoning for financial prediction. In *Proc. of IEA-AIE Conference*, 2005 (Moonis, A., Esposito, F., eds.), Lecture Notes in Artificial Intelligence vol. 3533 , Springer Verlag, Berlin, pp. 839-841, ISBN 3-540-26551-1, 2005.
48. Simić, D., Kurbalija, V., **Budimac, Z.**, Improving the CBR System for Financial Predictions. In *Proc. of IKE '04*, 2004, (Las Vegas, USA), 2004, Arabnia, H., ed., pp. 561 - 567.
47. Ivanović, M. and **Budimac, Z.**, Development of Adaptable Systems. In *Proc. of Pre-Conference Workshop of VLDB 2003 – Emerging Database research in East Europe* (Berlin, Germany), 2003, Thalheim, B., Fiedler, G., eds., pp. 67 - 72.
46. Zdravkova, K., Bothe, K., **Budimac, Z.**, The Structure of SETT-Net, In *Proc. EuroCon Conference* (Ljubljana, Slovenia), Zajc, B., Tkalčič, M., eds, 2003, pp. 126-129.
45. Zdravkova, K., Bothe, K., **Budimac, Z.**, SETT-Net: a network for software engineering training and teaching, In *Proc. of 25th Int. Conf. ITI 2003* (Cavtat, Croatia), 2003, pp. 281 - 286.
44. **Budimac, Z.**, Ivanović, M., Pešović, D., and Ibrajter, N., Implementation of a workflow management system using mobile agents, In *Proc. of CS&P conference* (Czarna, Poland), 2003, Czaja, L., ed., pp.

92 - 107.

43. Bothe, K., Schuetzler, K., **Budimac, Z.**, Zdravkova, K., Bojić, D., Stoyanov, S., Technical and managerial principles of a distributed cooperative development of a multi-linguaeducational course. In *Proc. of 1st Balkan conf. In Informatics* (Thessaloniki, Greece), 2003, Manolopoulos, Y., Spirakis, P. eds., pp. 112 - 120.
42. **Budimac, Z.**, Pešović, D., and Ibrajter, N., Embedding stationary agents into a mobile workflow system, In *Proc. of 1st Balkan conf. In Informatics* (Thessaloniki, Greece), 2003, Manolopoulos, Y., Spirakis, P. eds., pp. 46 - 57.
41. Ivanović, M., Putnik, Z., and **Budimac, Z.**, Conference workflow - a formalization of a conference management process, In *Proc. of 1st Balkan conf. In Informatics* (Thessaloniki, Greece), 2003, Manolopoulos, Y., Spirakis, P. eds., pp. 58 - 66.
40. Simić, D., Kurbalija, V., and **Budimac, Z.**, An application of case-based reasoning in multi-dimensional database architecture. *Lecture Notes in Computer Science 2737 (2003)*, pp. 66 - 75.
39. **Budimac, Z.** and Kurbalija, V., Case-based reasoning - a short overview, In *Proc. of 2nd CiiT 2001* (Bitola, Macedonia), 2002, Gusev, M., Markovski, S., eds., pp. 222 -233.
38. Ivanović, M., Kurbalija, V., **Budimac, Z.**, Semnic, M., Role of Case-Based Reasoning in neurology Decision Support, In *Proc. of JCKBSE 2002* (Maribor, Slovenia), 2002, published by IOS press, *Frontiers in Artificial Intelligence and Applications* vol. 80, Amsterdam, Welzer, T., Yamamoto, S., and Rozman, eds., pp. 255 - 263.
37. Ivanović, M., **Budimac, Z.**, Workflow Decision System and Electronic Commerce in Agricultural Domains, In *Proc. of EFITA 01*, (Montpellier, France), Steffè, J., ed., 2001, pp. 469 - 474.
36. Blažević, M. and **Budimac, Z.**, An Environment-based Multiparadigm Language. In *Proc. of MPOOL 2001* (Budapest, Hungary) 2001, published by John von Neumann Institute for Computing, Germany, in *NIC Series Volume 7*, pp. 97-110.
35. Ivanović, M., **Budimac, Z.**, Ibrajter, N., and Petrović, S., Pascal Animator. In *Proc. of CAL 2001* (Coventry, Great Britain) 2001, pp. 301-303.
34. Ivanović, M., **Budimac, Z.**, and Pešović, D., Agent-Oriented Workflow with Decision Support. In *Proc. of JCKBSE 2000* (Brno, Czech Republic), Hruška, T. and Hashimoto, M., eds., *Frontiers in Artificial Intelligence and Applications*, IOS Press, Amsterdam, 2000, pp. 239 - 246.
33. Ivanović, M., **Budimac, Z.**, Dudan, Z., and Stevanović, S., Using Software Agents in Implementation of Workflow Systems. In *Proc. of 4. IEEE Int. Baltic Workshop on Databases & Information Systems* (Vilnius, Lithuania), pp.225 - 234, 2000.
32. Ivanović, M. and **Budimac, Z.**, A Framework for Agent-Oriented Workflow in Agriculture. In *Proc. of ICCIMA 99* (New Delhi, India), Titsworth, F. ed., IEEE Computer Society, 1999, pp. 18 - 22.
31. Ivanović, M. and **Budimac, Z.**, Application of Agent-Oriented Workflow in Agriculture. In *Proc. of EFITA 99, vol A* (Bonn, Germany), Schiefer, G., Helbig, R., Rickert, U., eds., 1999, pp. 337 - 344.
30. **Budimac, Z.**, Ivanović, M., and Popović, A., Workflow Management System Using Mobile Agents. In *Proc. of ADBIS '99, Lecture Notes in Computer Science 1691*, Springer Verlag, Berlin, (Maribor, Slovenia), 169 - 178, 1999.
29. **Budimac, Z.**, Ivanović, M., and Popović, A., An Infrastructure for a General, Highly Decentralized Workflow using Mobile Agents. In *Proc. of CEEMAS '99* (St. Petersburg, Russia), position statement, 1999, pp. 322 - 324.
28. Bađonski, M., Ivanović, M., and **Budimac, Z.**, An Evolutionary Approach to Self-Modification of Multi-

- Agent Systems. In *Proc. of PERVS '98* (Krakow, Poland), 1998, pp. I/1 - I/8.
27. Putnik, Z. and **Budimac, Z.**, Implementation of Turtle Graphics for Teaching Purposes. In *Proc. of EDUGRAPHICS '97* (Vilamoura, Portugal), published on a conference website <http://www.geocities.com/ResearchTriangle/2217/>, 1997.
 26. Bađonski, M., Ivanović, M., and **Budimac, Z.**, Software Specification using LASS. In *Proc. of ASIAN '97* (Kathmandu, Nepal), Shyamasundar, R. K. and Ueda, K, eds., Lecture Notes in Computer Science vol. 1345, Springer Verlag, Berlin, 1997, pp. 375-376.
 25. Bađonski, M., Ivanović, M., and **Budimac, Z.**, Intelligent Tutoring System as Multiagent System. In *Proc. of ICPIS '97 (IEEE International Conf. on Intelligent Processing Systems)* (Beijing, China), 1997, pp. 871 - 875.
 24. Putnik, Z. and **Budimac, Z.**, Bringing LOGO to the World of Purely Functional Programming. In *Proc. of EUROLOGO '97 Conference* (Budapest, Hungary), 1997, pp. 406-409.
 23. Bađonski, M., Ivanović, M., and **Budimac, Z.**, Possibility of using Multiagent System in Education. In *Proc of SMC '97 (IEEE Int. Conf. on Systems, Man and Cybernetics)* (Orlando, FL, U.S.A.), pp. 588 - 593, 1997.
 22. **Budimac, Z.**, Ivanović, M., and Szarapka, L., A Critique of Current Intermediate Functional Programming Languages. In *Proc. of V Symposium on Programming Languages and Software Tools* (Jyvaskala, Finland), ed. J. Paakki, pp. 106-115, 1997.
 21. **Budimac, Z.**, Ivanović, M., Radenković, S., and Šendula, D., On the Construction of Persistent General Abstract Syntax Trees. In *Proc. of Short Presentations of JMLC '97 (Joint Modular Languages Conference)* (Linz, Austria), pp. 61-74, 1997.
 20. Szarapka, L., **Budimac, Z.**, and Ivanović, M., Translating an Abstract SECD Machine Code into Modula-2, *Bull. App. Math.* 1350/97 (LXXXII), Hungary, 1997, pp. 87 - 94.
 19. **Budimac, Z.**, Ivanović, M., and Živkov, S., On the Design of a Functional Programming Framework. In *Proc. of SMC '96 (IEEE Int. Conf. on Systems, Man, and Cybernetics)* (Beijing, China), pp. 1548-1552, 1996.
 18. Ivanović, M. and **Budimac, Z.**, A Framework for Developing Multimedial Authoring Systems. In *Proc. of SMC '96 (IEEE Int. Conf. on Systems, Man, and Cybernetics)* (Beijing, China), pp. 1333-1338, 1996.
 17. Szarapka, L. and **Budimac, Z.**, Optimizing Optimization Techniques in Implementation of Functional Programming Languages, *Bull. App. Math.*, 1232/96 (LXXIX), Budapest, Hungary, 1996, pp. 325-334.
 16. Živkov, S. and **Budimac, Z.**, The Impact of Automaton Representation to the Scanner Efficiency, *Bull. Appl. Math.*, 1226/96 (LXXIX), Budapest, Hungary, 1996, pp. 269-278.
 15. Szarapka, L., **Budimac, Z.**, and Ivanović, M., On the Cost of Type Checking in Polymorphic Functional Programs. In *Proc. of IV Symposium on Programming Languages and Software Tools* (Visegrad, Hungary), ed. Varga, L., 1995, 336-348.
 14. **Budimac, Z.**, Szarapka, L., Putnik, Z., and Ivanović, M., Dependency Analysis in a Compiler of Functional Language, *Bull. for Appl. Math.* 1047/94 (LXXIV), Budapest, Hungary, 1994, 43-50.
 13. Živkov, S., Ivanović, M., and **Budimac, Z.**, A Specification of ISWIM by S-Attributed Grammars, *Bull. Appl. Math.* 1056/94 (LXXIV), Budapest, Hungary, 1994, 127-134.
 12. **Budimac, Z.**, The Influence of Heap Management to Process Performance, *Bull. Appl. Math.*, 1044/94 (LXXIV), Budapest, Hungary, 1994, 17-26.
 11. Ivanović, M. and **Budimac, Z.**, Intelligent Tutoring Systems Using Less, In *Proc. of Synopsis Preprints of I Balkan IFAC-Type Conference on AAS* (Ohrid, FYR Macedonia), pp. 213-214, 1993.

10. **Budimac, Z.** and Nikolajević, B., Implementation of SASL via Scheme, In Proc. of Synopsis Preprints of IV ETAI Symposium (Ohrid, FYR Macedonia), pp. 215-216, 1993.
9. Ivanović, M., Nikolajević, M. and **Budimac, Z.**, Another Algorithm for Pattern Matching Compilation, Bulletins for Applied Mathematics, 1993, 1235/96 (LXXIX), Budapest, Hungary, pp. 353-364.
8. **Budimac, Z.** and Ivanović, M., On Multi-Paradigm Environment based on Modula-2. In *Proceedings of II European Modula-2 Conference*, (Leicester, England), 1992, pp. 256-263.
7. Ivanović, M. and **Budimac, Z.**, Less - An Authoring Object Oriented Programming Language. In *Proceedings of 17th International Summer School with Conference "Information Technologies and Programming"*, (Sofia, Bulgaria), 1992, pp. 77-82.
6. Putnik, Z., **Budimac, Z.** and Ivanović, M., Some Improvement of a LispKit LISP Syntax Analyzer. In *Proceedings of I International Symposium DECSYM '92* (Side-Antalia, Turkey), 1992, 243-252.
5. **Budimac, Z.** and Ivanović, M., On a Specialized Language for Information (Re)presentation. In *Proceedings of I International Symposium DECSYM '92* (Side-Antalia, Turkey), 1992, 175-187.
4. **Budimac, Z.** and Ivanović, M., On some Modula-2 Influences to an Implementation of Functional Language. In *Proceedings of II International Conference "Modula-2 and beyond"* (Loughborough Leicestershire, Great Britain), 1991, 322 - 331.
3. Ivanović, M., Paunić, Đ. and **Budimac, Z.**, A Tool for General CAI Lesson Creation. In *Proceedings of XVI International Summer School "Programming '91"* (Sofia, Bulgaria), 1991, 107 - 110.
2. **Budimac, Z.** and Ivanović, M., An Improved Implementation of the LispKit Lisp Language. In *Proceedings of XVI International Summer School "Programming '91"* (Sofia, Bulgaria), 1991, 101-104.
1. **Budimac, Z.** and Ivanović, M., New Data Type in Pascal. In *Proceedings of the DECUS Europe Symposium* (The Hague, Holland), 1989, 193 - 199.

V Papers published in Proceedings of International Conferences (held in Yugoslavia)

16. Putnik, Z., **Budimac, Z.**, Software agents as a part of a workflow technology. In *Proc. Workshop on computational intelligence and information technologies* (Niš, Serbia-Montenegro), R. Stanković, C. Moraga, eds. 2003, pp. 23-26.
15. Putnik, Z. and **Budimac, Z.**, Mobile Agents - A New and Advanced Concept?. In *Proc. of TARA 2000* (Novi Sad, Yugoslavia), Budimac, Z. and Tošić, R., eds., Novi Sad J. Math vol. 30, no. 2, Novi Sad 2000, pp. 113 -123.
14. Pešović, D. and **Budimac, Z.**, A Comparative Analysis of Several Mobile Agent Systems. In *Proc. of TARA 2000* (Novi Sad, Yugoslavia), Budimac, Z. and Tošić, R., eds., Novi Sad J. Math vol. 30, no. 2, Novi Sad 2000, pp. 95 -111.
13. Blažević, M., Budimac, Z. and **Ivanović, M.**, Formal Specification of a Graph Rewriting System with Environments. Proc. of VIII Int. Conf. "Algebra & Logic" (Novi Sad, Yugoslavia), eds. Crvenković, S. and Dolinka, I., *Novi Sad J. Math* 29 (1999) 2, 13-27.
12. Mačoš, D. and **Budimac, Z.**, Implementing Lazy Foreign Functions in a Procedural Programming Language. In *Proc. of VIII Int. Conf. on Logic and Computer Science "LIRA '97"* (Novi Sad, Yugoslavia), eds. Tošić, R. and Budimac, Z., pp. 129-138, 1997.
11. Žunić, J., **Budimac, Z.**, On Symbolic Representation of Curved Lines. In *Proceedings of XIII Intern. Conference on Information Technology Interfaces "ITI '91"* (Cavtat, Yugoslavia), eds. V. Ćerić, V. Dobrić, V. Lužar, R. Paul, University Computing Centre, Zagreb, 1991, 593 - 597.

10. Živkov, S., Ivanović, M., **Budimac, Z.**, A Preprocessor for Transformation of Context-free Grammar to Reduced one. In *Proceedings of XIII Intern. Conference on Information Technology Interfaces*, (Cavtat, Yugoslavia), eds. V. Ćerić, V. Dobrić, V. Lužar, R. Paul, University Computing Centre, Zagreb, 1991, 541 - 546.
9. **Budimac, Z.**, Ivanović, M., Putnik, Z., A Representation Scheme for Graphical Objects Based on Function Definitions in Functional Language. In *Proceedings of XIII Intern. Conference on Information Technology Interfaces*, (Cavtat, Yugoslavia), eds. V. Ćerić, V. Dobrić, V. Lužar, R. Paul, University Computing Centre, Zagreb, 1991, 255 - 260.
8. **Budimac, Z.**, Ivanović, M., An Implementation of Function APPLY in a Compiler of Functional Language LispKit LISP. In *Proceedings of XIII Intern. Conference on Information Technology Interfaces*, (Cavtat, Yugoslavia) eds. V. Ćerić, V. Dobrić, V. Lužar, R. Paul, University Computing Centre, Zagreb, 1991, 125 - 130.
7. Ivanović, M., Paunić, Đ. and **Budimac, Z.**, A Framework for Information (Re)presentation. In *Proceedings of XIII Intern. Conference on Information Technology Interfaces*, (Cavtat, Yugoslavia), eds. V. Ćerić, V. Dobrić, V. Lužar, R. Paul, University Computing Centre, Zagreb, 1991, 105 - 110.
6. **Budimac, Z.** and Ivanović M. A Useful Pure Functional Language Interpreter. In *Proceedings of XII International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1990, 3.17.1 - 3.17.6.
5. Putnik, Z., **Budimac, Z.**, Ivanović, M., Paunić, Đ. and Jerinić, Lj., Using Pictures in General Purpose Educational Software - OSOF. In *Proceedings of XII International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1990, 1.3.1 - 1.3.6.
4. **Budimac, Z.**, Putnik, Z., Ivanović, M., Paunić, Đ. and Jerinić, Lj., General Purpose Educational Software with "Simulation" Ability - OSOF. In *Proceedings of XII International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1990, S1.5.1 - S1.5.6.
3. Ivanović, M. and **Budimac, Z.**, Usage of S-Expression in Pascal. In *Proceedings of XI International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1989, 3.18.1 - 3.18.6.
2. **Budimac, Z.**, Notes on (micro-)PROLOG Implementation. In *Proceedings of XI International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1989, 3.17.1 - 3.17.6.
1. **Budimac, Z.** and Surla, D., Implementation of the Algorithm of the Intersection of two Simple Polyhedra. In *Proceedings of XI International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1989, 11.9.1 - 11.9.6.

VI Papers published in Proceedings of National Conferences

55. Putnik, Z., Ivanović, M., **Budimac, Z.**, Extending The Notion of Computing Literacy, In *Proc. of 4th Conference "Informatics, Educational Technology and New Media in Education"*, (Sombor, Serbia), pp. 167 - 179, 2007.
54. Ivanović, M., **Budimac, Z.**, Ibrajter, N., Pascal animator. In *Proc. of "Informatics, Education technologz, and new media in education*, (Sombor, Serbia&Montenegro), 2005, pp. 104-111. (in Serbian)
53. Putnik, Z., Ivanović, M., **Budimac, Z.**, Bothe, K., An example of experience application gained by participation in an international educational project. In *Proc. of "Informatics, Education technologz, and new media in education*, (Sombor, Serbia&Montenegro), 2005, pp. 200-209. (in Serbian)
52. **Budimac, Z.**, Ivanović, M., Ibrajter, N., Pribela, I., Modernized studies of informatics on Faculty of Science in Novi Sad. In *Proc. of "Visoko obrazovanje u Srbiji na putu ka Evropi – četiri godine kasnije*, (Belgrade, Serbia&Montenegro), 2005, pp. 207-213. (in Serbian)

51. Tošić S., **Budimac Z.**, Plan creation in agent systems, XVI Conference on Applied Mathematics - PRIM 2004, Budva, Serbia and Montenegro, 2004.
50. **Budimac, Z.**, Bothe, K., Guidelines for lecture presentation. In *Proc. of NARA 2003, in print.*
49. Putnik, Z., **Budimac, Z.**, Bothe, K., International educational project - some experiences. In *Proc. of NARA 2003, in print.*
48. Ibrajter, N., **Budimac, Z.**, Stationary mail agent. In *Proc. of XV Conf. on Applied Mathematics PRIM 2002*, (Zlatibor, Serbia&Montenegro), Krejić, N., Lužanin, Z., eds., 2002, pp. 119-126.
47. Putnik, Z., **Budimac, Z.**, Supervision and control of business process using Oracle workflow monitor. In *Proc. of XV Conf. on Applied Mathematics PRIM 2002*, (Zlatibor, Serbia&Montenegro), Krejić, N., Lužanin, Z., eds., 2002, pp. 159-168.
46. **Budimac, Z.**, Ivanović, M., Pešović, D., Ibrajter, N., Realizacija opšte arhitekture sistema za upravljanje tokom poslova pomoću mobilnih agenata. In *Proc. of XVIII Info-Teh conference* (Vrnjačka banja, Serbia&Montenegro), 2003, pp. 151 - 159.
45. Putnik, Z., **Budimac, Z.** and Ivanović, M., Workflow Technology and its Important Applications. In *Proc. of XII Conference on Industrial Systems IS 2002* (Vrnjačka banja, Yugoslavia), pp. 441 - 446, 2002.
44. **Budimac, Z.** and Putnik, Z., An Example of Usage of Workflow Technology in Introduction of Standard ISO 9001. In *Proc. of YU INFO 2001* (Kopaonik, Yugoslavia), CD edition, 2001 (in Serbian).
43. Ivanović, M., Putnik, Z., **Budimac, Z.** and Babjak, P., An Application of Workflow Methodology in Design of Information Systems. In *Proc. of VJINFO 2001* (Belgrade, Yugoslavia), (http://www.vj.yu/vojska_s/obrazov/savetovanje/projis-3april/workflow.htm), in print, 2001 (in Serbian).
42. **Budimac, Z.** and Pešović, D., A Proposal of a Mobile Agent Infrastructure. In *Proc. of XIV Conf. on Applied Mathematics* (Palić, Yugoslavia), Herceg, D., Surla, K., and Lužanin, Z. eds., pp. 31 - 40, 2000.
41. Ivanović, M., **Budimac, Z.**, Pešović, D., Dudan, Z., Stevanović, S., Agent Approach to Modeling of Workflow with Elements of Decision Support. In *Proc. of XV Conf. "Info-Teh 2000"* (Vrnjačka banja, Yugoslavia), pp. 251 - 255, 2000 (in Serbian).
40. Ivanović, M., **Budimac, Z.**, Dudan, Z., Stevanović, S., A Proposal for the Architecture of Agent-Oriented Workflow. In *Proc. of INFOFEST 99* (Budva, Yugoslavia), pp. 146 - 151, 1999.
39. **Budimac, Z.**, Ivanović, M., Popović, A., Dudan, Z., Stevanović, S., A Proposal for a Workflow Infrastructure using Mobile Agents. In *Proc. of "YU iNFO 99" - V Conf. on Computer Science* (Kopaonik, Yugoslavia), CD issue, 1999.
38. Barši, V., **Budimac, Z.**, Towards a Distributed Prolog, In *Proc. of "PRIM '98" - XIII Conf. on Applied Mathematics* (Igalo, Yugoslavia), Herceg, D., Surla, K., eds., pp. 203-208, 2000.
37. Szarapka, L., **Budimac, Z.**, The Best of Two Worlds: Using Memo Functions to Implement Higher Order Functions, In *Proc. of "PRIM '98" - XIII Conf. on Applied Mathematics* (Igalo, Yugoslavia), Herceg, D., Surla, K., eds., pp. 209 -214, 2000.
36. Szarapka, L., **Budimac, Z.**, A Possible Implementation of Memo Functions in Purely Functional Programming Languages, In *Proc. of "PRIM '97" - XII Conf. on Applied Mathematics* (Subotica, Yugoslavia), Herceg, D., Surla, K., eds., pp. 173 - 179, 1998.
35. Blažević, M., **Budimac, Z.**, Attributed Graph Rewriting System, In *Proc. of "PRIM '97" - XII Conf. on Applied Mathematics* (Subotica, Yugoslavia), Herceg, D., Surla, K., eds., pp. 11 - 19, 1998.

34. Bađonski, M., **Budimac, Z.**, Dudan, Z., Ivanović, M., Stevanović, S., Paunić, □., and Živkov, S., Programming Language "PLES" and Software Components, In Proc. of XII Info-Tech Conference (Vrnjačka Banja, Yugoslavia), Starčević, D. and Pantović, V., eds. pp. 117 - 122, 1997 (in Serbian).
33. Ivanović, M., Bađonski, M. and **Budimac, Z.**, *Programming Language PLES and its Usage*, In Proc. of XLI Conf. of ETRAN (Zlatibor, Yugoslavia), □orđević, J., Stanković, S., eds., 40-42, 1997 (in Serbian).
32. Bađonski, M. and **Budimac, Z.**, A Prototype of a Purely Functional Operating System in Haskell, In Proc. of "PRIM '96" - XI Conf. on Applied Mathematics (Budva, Yugoslavia), Herceg, D., Surla, K., eds., pp. 1 - 8, 1997.
31. Mačoš, D., **Budimac, Z.**, and Ivanović, M., An Interpreter of Extended □-Calculus Using Monads, In Proc. of "PRIM '96" - XI Conf. on Applied Mathematics (Budva, Yugoslavia), Herceg, D., Surla, K., eds., pp. 175 - 180, 1997.
30. **Budimac, Z.** and Živkov, S., Persistent Objects in Oberon (Operating) System, In Proc. of "PRIM '96" - XI Conf. on Applied Mathematics (Budva, Yugoslavia), Herceg, D., Surla, K., eds., pp. 33 - 40, 1997.
29. Bađonski, M., **Budimac, Z.**, Dudan, Z., Ivanović, M., Paunić, Dj., Stevanović, S., and Živkov, S., An Interaction of Specialized Programming Language "PLES" with its Environment, In Proc. of "YU INFO '97" (Brezovica, Yugoslavia), □orđević, B., ed. pp. 348 - 352, 1997 (in Serbian).
28. Bađonski, M., **Budimac, Z.**, Ivanović, M., Paunić, Dj., On Specialized Language for Flexible Information Systems, In Proc. of Conf. on Information Technologies "IT '97" (Žabljak, Yugoslavia), 211-214, 1997 (in Serbian).
27. Bađonski, M. and **Budimac, Z.**, A Specification of "Pure-Scheme" via L-Attributed Grammars. In Proc. of VII Conference of Logic and Computer Science "LIRA '95" (Novi Sad, Yugoslavia), eds. Paunić, □. and Tošić, R., pp. 31-36, 1997.
26. Živkov, S. and **Budimac, Z.**, Functional Programming Framework - an Extension of an Operating System. In Proc. of VII Conference of Logic and Computer Science "LIRA '95" (Novi Sad, Yugoslavia), Paunić, □. and Tošić, R., pp. 211-216, 1997.
25. Šendula, D., Mašulović, D., and **Budimac, Z.**, Cross-Platform Library for Modula-2. In Proc. of 40. Conference of ETRAN (Budva, Yugoslavia), vol. III, pp. 162-163, 1996.
24. Mašulović, D. and **Budimac, Z.**, C or Modula-2?. In Proc. of 39. Conference of ETRAN (Zlatibor, Yugoslavia), eds. □orđević, J. and Stanković, S., 1995, 183-186.
23. **Budimac, Z.**, Abstracting Number Representation. In Proc. of 39. Conference of ETRAN (Zlatibor, Yugoslavia), eds. □orđević, J. and Stanković, S., 1995, 235-237.
22. Šendula, D. and **Budimac, Z.**, Implementing Compiler Generator of Efficient Recursive Descent Parser. In Proc. of 9. Conference on Applied Mathematics (Budva, Yugoslavia), Herceg, D., Cvetković, Lj., eds. 1995, 379-385.
21. Ivanović, M. and **Budimac, Z.**, An Operator apply and the SECD Machine. In Proc. of 9. Conference on Applied Mathematics (Budva, Yugoslavia), Herceg, D., Cvetković, Lj., eds. 1995, 285-291.
20. Paunić, □. and **Budimac, Z.**, Defining a New Intermediate Code for Functional Programming Languages. In Proc. of 38. Conference of ETRAN, part 3 (Niš, Yugoslavia), ed. S. Lazović, 1994, 17 - 18.
19. **Budimac, Z.** and Putnik, Z., Purely Functional Turtle Graphics. In Proc. of 38. Conference of ETRAN, part 3 (Niš, Yugoslavia), ed. S. Lazović, 1994, 127 - 128.
18. Putnik, Z., Ivanović, M. and **Budimac, Z.**, An Application of Dependency Analysis in an Implementation of Functional Programming Languages. In *Proceedings of 37. Conference of ETAN, part 8* (Belgrade, Yugoslavia), 1993, pp. 351 - 356 (in Serbian).

17. **Budimac, Z.** and Maćoš, D., An Implementation of Foreign Functions in a Lazy Functional Programming Language. In *Proceedings of 37. Conference of ETAN, part 8* (Belgrade, Yugoslavia), 1993, pp. 339 - 344 (in Serbian).
16. **Budimac, Z.**, Maćoš, D., and Ivanović, M., Another Bracket Abstraction Algorithm. In Proc. of 8. Conference on Applied Mathematics (Tivat, Yugoslavia), ed. M. Jaćimović, 1993, 23 - 28.
15. Putnik, Z., **Budimac, Z.** and Ivanović, M., Dependency Analysis in an Untyped Functional Language: an Exercise in Functional Programming. In *Proceedings of VI Conference on Logic and Computer Science "LIRA '92"*, (Novi Sad, Yugoslavia), eds. Tošić, R. and Paunić, □., 1992, pp. 99 - 106.
14. Nikolajević, B. and **Budimac, Z.**, On Compilation of Pattern Matching in SASL Language. In *Proceedings of VI Conference on Logic and Computer Science "LIRA '92"*, (Novi Sad, Yugoslavia), eds. Tošić, R. and Paunić, □., 1992, pp. 85 - 92.
13. **Budimac, Z.** and Ivanović, M., Two Approaches to the "Mark and Sweep" Garbage Collection Algorithm, accepted for presentation on XVI Symposium on Information Technologies "Sarajevo-Jahorina 1992", printed in *Articles of the Institute of Mathematics*, no. 1, 1992, 33 - 40.
12. Ivanović, M., Putnik, Z., and **Budimac, Z.**, Computer Graphics and LispKit LISP - an Overview of Implementation, accepted for presentation on XVI Symposium on Information Technologies "Sarajevo-Jahorina 1992", printed in *Articles of the Institute of Mathematics*, no. 1, 1992, 25 - 32.
11. Ivanović, M., Paunić, Đ., **Budimac, Z.**, (Re)presentation of Information in Computer Aided Instruction. In *Proceedings of the Yugoslav Conference "Computer Science in Education and New Technologies"* (Novi Sad, Yugoslavia), 1991, 38-1 - 38-9 (in Serbian).
10. **Budimac, Z.**, A Universal Module for Data-File Maintenance. In *Proceedings of XV Information Technologies Conference "Sarajevo-91"* (Sarajevo, Yugoslavia), 1991, 142-1 - 142-8, (in Serbian).
9. **Budimac Z.** and Ivanović M., An Implementation of Functional Language using S-expressions. In *Proceedings of XIV Information Technologies Conference "Sarajevo-Jahorina 90"* (Sarajevo, Yugoslavia), 1990, 111-1 - 111-8.
8. **Budimac, Z.**, Paunić, Đ., Ivanović, M. and Jerinić, Lj., The Structure of Educational Software in Mathematics. In *Proceedings of XIII Information Technologies Conference "Sarajevo-Jahorina 89"* (Sarajevo, Yugoslavia), 1989, 250-1 - 250-4, (in Serbian).
7. Jerinić, Lj., Paunić, Đ., **Budimac, Z.** and Ivanović, M., The Development and Use of Educational Software in Autonomous Province Vojvodina. In *Proceedings of XIII Information Technologies Conference "Sarajevo-Jahorina 89"* (Sarajevo, Yugoslavia), 1989, 230-1 - 230-5, (in Serbian).
6. Ivanović, M. and **Budimac, Z.**, Improving of Parser Based on Precedence Grammar. In *Proceedings of X International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1988, 3.5.1 - 3.5.4, (in Serbian).
5. Jerinić, Lj., Paunić, Đ., **Budimac, Z.** and Ivanović, M., A Universal Programming Package for Use of Computers in Learning and Testing. In *Proceedings of X International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1988, 1.13.1 - 1.13.4, (in Serbian).
4. Paunić, Đ., Jerinić, Lj., **Budimac, Z.** and Ivanović M., A Universal Programming Package for Use of Computers in Education. In *Proceedings of X International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1988, 1.12.1 - 1.12.4, (in Serbian).
3. **Budimac, Z.**, An Application of Microcomputers for Information Retrieval of Yugoslav Theater Games Database. In *Proceedings of IX International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1987, 9S.01 1 - 9S.01 4, (in Serbian).

2. **Budimac, Z.**, Ivanović, M. and Stojmenović, I., On Execution of Recursive Procedures in FORTRAN. In *Proceedings of XI Information Technologies Conference "Sarajevo-Jahorina 87"* (Sarajevo, Yugoslavia), 1987, 263-1 - 263-8, (in Serbian).
1. Ivanović, M., Stojković, V., **Budimac, Z.** and Putnik, Z., An Implementation of Mini-BASIC Interpreter in LispKit Lisp Language. In *Proceedings of VII International Symposium "Computer at the University"* (Cavtat, Yugoslavia), 1985, 102 1 - 102 12, (in Serbian).

VII Theses

2. **Budimac, Z.**, A Contribution to a Theory of Functional Programming Languages and to an Implementation of their Processors, Ph.D. Thesis, University of Novi Sad, Novi Sad, July 1994, 164 pages.
1. **Budimac, Z.**, An Implementation of micro-PROLOG Interpreter in Pascal, Master Thesis, University of Novi Sad, Novi Sad, January 1991, 182 pages.

VIII Monographs

2. **Budimac, Z.** Application of agent systems in e-commerce, chapter in a monograph "E-commerce: view from Serbia" (Jošanov, B., Perić, D., eds), Eletro-technical college, Belgrade, 2005, in Serbian.
1. **Budimac, Z.** and Ivanović, M., Functional programming languages - from theory to implementation, 2002, to appear.

IX Technical Reports and Expository Papers

1. **Budimac, Z.**, LispKit Lisp - Description and Implementation, Expository paper, Institute of Mathematics, Novi Sad, 1990, 41 pages.

Books (in Serbian)

14. Ivanović, M., Bađonski, M., **Budimac, Z.**, Pešović, D., *Programming Language Java*, Faculty of Science, Novi Sad, Novi Sad, 324 pages, 2005, **second edition: 2006.**
13. **Budimac, Z.**, Ibrajter, N., Ivanović, M., *Introduction to Delphi*, Computers in University Practice - 12, Department of Mathematics and Informatics, Novi Sad, 2004.
12. **Budimac, Z.**, Herceg, Dj., and Popović, A., *Introduction to Text-Processing and Text-Processor Word*, Computers in University Practice - 10, Institute of Mathematics, Novi Sad, 103 pages, 1999. **Second edition, 2001; Third edition, 2002.**
11. Popović, A. and **Budimac, Z.**, *Introduction to Operating System Windows 95*, Computers in University Practice - 9, Institute of Mathematics, Novi Sad, 123 pages, 1999. **Second, revised and improved edition by Budimac Z., Herceg Dj, and Popović, A., 2000; Third edition, 2001;**
10. **Budimac, Z.**, Ivanović, M., and Putnik, Z., *Introduction to Computers and Operating System MS-DOS*, Computers in University Practice - 8, Institute of Mathematics, Novi Sad, 126 pages, 1998. **Second edition, 2000; Third edition, 2001.**
9. **Budimac, Z.**, Ivanović, M., and Paunić, Dj., *Introduction to Programming and Programming Language Modula-2*, University Textbooks no. 81, University of Novi Sad, Novi Sad, 360 pages, 1998. **Second edition, 2004;**
8. **Budimac, Z.**, Ivanović, M., Bađonski, M., and Tošić, D., *Programming Language Scheme*, University

Textbooks no. 80, University of Novi Sad, Novi Sad, 196 pages, 1998.

7. **Budimac, Z.**, Ivanović, M., and Paunić, Dj., *Programming Language Modula-2*, Institute of Mathematics, Faculty of Science, University of Novi Sad, Novi Sad, 350 pages, 1996.
6. Bošnjak, I., **Budimac, Z.**, Ivanović, M., Jerinić, Lj., Madarász, R. Sz., Nedeljkov, M., Racković, M., Teofanov, N., and Tepavčević, A., *Exercises in Mathematics*, Institute of Mathematics, Faculty of Science, University of Novi Sad, Novi Sad, 279 pages, 1995.
5. Tošić, R., Vukasović, M., and **Budimac, Z.**, *Numbers - Exercises for Programmers*, Alef, Novi Sad, 35 pages, 1995.
4. Ivanović, M., **Budimac, Z.**, Tošić, D., and Putnik, Z., *Programming Mind storms*, Tehnička knjiga, Beograd, 198 pages, 1992.
3. **Budimac, Z.** and Nikolajević, B., *Computer Communications - under VAX/VMS*, Computers in University Practice - 3, Institute of Mathematics, Novi Sad, 157 pages, 1992.
2. Tošić, D., Ivanović, M., **Budimac, Z.**, and Putnik, Z., *Mathematical and Programming Problems*, Arhimedes, Beograd, 36 pages, 1992.
1. **Budimac, Z.**, Ivanović, M., Putnik, Z., and Tošić, D., *LISP by Examples*, Institute of Mathematics, Novi Sad, 254 pages, 1991.
Second edition, 1994.

Professional Papers (in Serbian)

7. **Budimac, Z.** and Ivanović, M., Divide and Conquer, *Tangenta*, 10(1998), 14 - 19.
6. Mašulović, D. and **Budimac, Z.**, Is C Really a Good Programming Language?, *Tangenta*, 9(1997-98), 7 - 14.
5. **Budimac, Z.** and Paunić, Đ., Brute Force in Programming, *Tangenta*, 2(1995-96), 5 - 12.
4. Jerinić, Lj., **Budimac, Z.**, Ivanović, M. and Paunić, Đ., Artificial Intelligence in School, *YU 21*, 8(1988), 46 - 48.
3. Jerinić, Lj., **Budimac, Z.**, Ivanović, M. and Paunić, Đ., An Universal Programming Package for Usage of Computers in Programmed Education, *Misao* 13 (1988) 11, 19.
2. **Budimac, Z.**, Jerinić, Lj., Ivanović, M., and Paunić, Đ., OSOF for students, *Svet kompjutera*, February (1988), 21 - 22.
1. **Budimac, Z.**, Jerinić, Lj., Ivanović, M., and Paunić, Đ., Educational Package from Novi Sad, *Svet kompjutera*, January (1988), 20.

Registered Software Packages

5. **Budimac, Z.**, Ivanović, M., A Lazy SECD machine Simulator, version Nuam/ISECD. *Authoring Bureau of Yugoslavia - Department for Republic of Serbia*, Copyright No. S-64/92, July 21, 1992.
4. **Budimac, Z.**, Ivanović, M., Živkov, S., Strict ISWIM Compiler, version Nui/SECD. *Authoring Bureau of Yugoslavia - Department for Republic of Serbia*, Copyright No. S-63/92, July 21, 1992.
3. **Budimac, Z.**, Clipper Library for File Maintenance. *Authoring Bureau of Yugoslavia - Department for Republic of Serbia*, Copyright No. S-2/91, January 13, 1992.

2. **Budimac, Z.**, Ivanović, M., micro-PROLOG Interpreter, Version WHY. *Authoring Bureau of Yugoslavia - Department for Republic of Serbia, Copyright No. S-3/92*, January 13, 1992.
1. Ivanović, M., **Budimac, Z.**, Putnik, Z., LispKit LISP System Version Null/SECD. *Authoring Bureau of Yugoslavia - Department for Republic of Serbia, Copyright No. S-63/91*, July 23, 1991.

Supervising Dr. Zoran Budimac

(December 17, 2007)

Supervised PhD Theses (in Serbian)

2. Pešović, D., Faculty of Science, University of Novi Sad, Novi Sad, 2007.
1. Simić, D., *The support system for financial prediction and decision based on artificial intelligence technologies*, Faculty of Science, University of Novi Sad, Novi Sad, 2004 (in Serbian).

Supervised Master's Theses (in Serbian)

5. Kurbalija, V., 2006.
4. Milićević, M., 2005.
3. Ibrajter, N., *Agent services in network environment*, Faculty of Science, University of Novi Sad, Novi Sad, 2004.
2. Putnik, Z., *Workflow management systems - theory and practice*, Faculty of Science, University of Novi Sad, Novi Sad, 2004.
1. Pešović, D., *Implementation of General Architecture of Workflow Management Systems Using Mobile Agents*, Faculty of Science, University of Novi Sad, Novi Sad, 2002.

Supervised Specialist's Theses (in Serbian)

1. Stanković, Ž., *Implementation of Adaptable Graphical Interface in Distance Learning System*, Faculty of Science, University of Novi Sad, Novi Sad, 2004.