

**Curriculum Vitae of Vladimir (Z.) Tosic, Dipl.Ing., Mag.Sc., Ph.D.**

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## **CAREER OBJECTIVE**

***To lead in research and development of innovative software systems that solve complex business problems and provide significant business advantage.***

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## **AREAS OF CURRENT RESEARCH INTEREST**

Business-driven run-time management (monitoring and control, particularly dynamic adaptation with minimal human intervention) of complex computing/software systems and business processes they implement.

Software engineering resulting in self-managing/autonomic computing systems.

Emerging distributed computing technologies, particularly for cloud computing, service-oriented computing, mobile computing, and pervasive/ubiquitous computing.

Software integrating business process management and distributed system management.

Software technologies for electronic (e-) and mobile (m-) business, particularly business-to-business integration.

Strategies for commercialization of academic software engineering research.

Software patents and patent analysis software.

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## **COMPUTING KNOWLEDGE AND EXPERIENCE HIGHLIGHTS**

**Distributed and network computing:** Cloud computing. Web Service technologies. SOA (Service-Oriented Architecture). Business process management. Electronic (e-) and mobile (m-) business applications. REST (REpresentational State Transfer). XML (Extensible Markup Language). Apache Axis. Microsoft .NET. Pervasive/ubiquitous computing. Mobile computing. Context management. Mobile agents. Semantic Web. Java technology.

**Management of distributed systems, software, services, and networks:** BDIM (Business-Driven IT Management). Autonomic computing. WSLA (Web Service Level Agreement). WS-Policy. Common Information Model (CIM). WBEM (Web-Based Enterprise Management). SNMP (Simple Network Management Protocol). QoS (Quality of Service) management. Fault management. Policy-based management. Service management. ITSM (Information Technology Service Management). Trustworthy computing. HP (Hewlett-Packard) OpenView.

**IT governance:** Business-IT alignment. BSC (Balanced ScoreCard).

**Software engineering methodology:** VBSE (Value-Based Software Engineering). Object-oriented (OO) software engineering. UML (Unified Modeling Language). Business process modeling. BPMN (Business Process Modeling Notation). Business Motivation Model (BMM). Design patterns. Software architecture. Performance analysis.

**Empirical validation of software engineering.**

**Software engineering tools:** Eclipse. Rational Rose. JUnit. Microsoft Visual Studio. Altova XMLSpy. Rational Clear Case.

**Programming languages and libraries:** Java. C#/C++/C. PHP. UNIX shell scripting. BASIC. Intel 80x86 assembly language.

**Operating systems:** Microsoft Windows XP/2000/NT/95/3.1. Linux.

**Databases:** Oracle. MySQL.

**Artificial intelligence.**

**Optimization:** Constraint programming. MiniZinc.

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## **EDUCATION**

- 1999-2004 **Ph.D. (Doctoral) degree in Electrical Engineering**, Carleton University (Ottawa, Canada), Department of Systems and Computer Engineering. Ph.D. program offered through the Ottawa-Carleton Institute for Electrical and Computer Engineering (OCIECE), a joint institute between the University of Ottawa and Carleton University. GPA (Grade Point Average): 12 out of 12. Won prestigious scholarships and awards. Area of research: software for management of Web Services and their compositions, and formal specification of constraints and contracts for Web Services. Thesis title: “Service Offerings for XML Web Services and Their Management Applications”. Supervisor: Prof. Bernard Pagurek. Completed optional “*Certificate in Teaching Skills for Teaching Assistants*” and attended seminars in leadership, management, and business.
- 1996-1998 **Mag.Sc. (advanced research Masters) degree in Computer Science and Engineering**, University of Nis (Serbia, Yugoslavia), Faculty of Electronic Engineering. Part-time studies. GPA: 10 out of 10. The thesis was completed in collaboration with a Hewlett-Packard software division in Germany, where I had previously worked full-time. Thesis title: “On Object-Oriented Information Specification in Network and System Management”. Supervisors: Prof. Slobodanka Djordjevic-Kajan (University of Nis) and Holger Dietrich (Hewlett-Packard).
- 1991-1995 **Dipl.Ing. (5-year undergraduate, equivalent to coursework Masters) degree in Computer Science and Engineering**, University of Nis (Serbia, Yugoslavia), Faculty of Electronic Engineering. *The best graduating student of the University of Nis* during the school year 1995/1996. GPA: 9.97 out of 10. Studies completed 9 months before the graduation date. Thesis title: “Object-Oriented Implementation of Artificial Neural Networks”. Supervisor: Prof. Lazar Djordjevic.
- 1987-1991 **Mathematics and Programming Associate diploma**, Bora Stankovic High School, Nis (Serbia, Yugoslavia). GPA: 5 out of 5.

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## **RESEARCH AND DEVELOPMENT EXPERIENCE**

- 2007-pres. **Senior Researcher** (2011-pres.) / **Researcher** (2007-2011), **Software Systems Research Group – Sydney/ATP (previous research group names: Managing Complexity, Empirical Software Engineering), NICTA (National ICT Australia) (Sydney, Australia)**: Conducting research and some software development on technologies on business-driven IT management, as related to implementation of business processes with service-oriented architectures and cloud computing. Contributed to the following major NICTA projects: 1) (2007-2008) LIXI Business Processes and Technologies; 2) (2009-2011) Business Adaptation and Interoperation (particularly the Business-IT Adaptation technology); 3) (2010-pres.) Adaptive Cloud Technologies; 4) (2011-pres.) Continuous Availability for Cloud Based Applications. One of my main achievements was the development of several innovative algorithms that make IT system management decision according to various business strategies for

- maximization of diverse financial and non-financial business value metrics, definition of new versions of the WS-Policy4MASC language to enable specification of management policies used in these algorithms, and co-design of the corresponding MiniZnMASC middleware for policy-driven management of service-oriented and cloud computing systems. Conducted research and some software development on various other aspects of advanced distributed computing and its business applications. Actively collaborated with industry partners, such as Australian companies involved in various aspects of lending (mortgages). Presented several tutorials and seminars about service-oriented systems and their management to industry audience. After successful first 2 years, the initial limited-term (3-year) contract converted into a permanent position. Promoted to Senior Researcher in mid 2011. Awarded for the quality of student supervision. Research results published in refereed papers or are in preparation for patenting and subsequent refereed publication.
- 2010-pres. **Honorary Associate, School of Information Technologies, The University of Sydney (Sydney, Australia):** Collaborating in research projects on cloud computing, performance analysis of complex distributed systems and in supervision of graduate and undergraduate students. Results are in preparation for refereed publication.
- 2007-pres. **Conjoint Lecturer (2010-pres.) / Visiting Fellow (2007-2009), School of Computer Science and Engineering, The University of New South Wales (Sydney, Australia):** Collaborating in research projects (same as NICTA, listed above) and in supervision of graduate and undergraduate students. Results published in refereed papers or are in preparation for refereed publication.
- 2010 **Academic Visitor (for 1 month), Hewlett-Packard Laboratories (Bristol, UK):** Presented results of own research projects and explored possibilities for joint research in the area of cloud computing.
- 2005-2010 **Adjunct Research Professor, Department of Computer Science, The University of Western Ontario (London, Canada):** Collaborated on research projects related to the management of distributed computing systems. The major projects were on business-driven management of Web Services and Web Service compositions and on management of Web Services executing in mobile and pervasive computing systems. Results published in refereed papers or are in preparation for refereed publication.
- 2006 **Research Officer (for 8 months), School of Computer Science and Engineering, The University of New South Wales (Sydney, Australia):** Contributed to a research project on building policy-driven middleware for QoS-aware and adaptive Web Services composition, called Manageable and Adaptable Service Compositions (MASC). Developed novel WS-Policy4MASC language for the formal specification of monitoring and management policies for business-driven management of Web Services and Web Service compositions. The project was sponsored by Microsoft Australia and the Australian Research Council (ARC). Results published in several refereed papers.
- 2005-2006 **Assistant Professor (tenure-track), Department of Software Engineering, Lakehead University (Thunder Bay, Canada):** Researched business-driven management of Web Services and Web Service compositions and started development of appropriate management algorithms, protocols, and infrastructures. On the other hand, wrapped-up development of the Web Service

Offerings Language (WSOL) and the corresponding Web Service Offerings Infrastructure (WSOI). Results published in several refereed papers. Supervised undergraduate research students. Taught undergraduate software engineering courses.

- 2004-2005 **NSERC (Natural Sciences and Engineering Research Council of Canada) Post-Doctoral Fellow, Department of Computer Science, The University of Western Ontario (London, Canada):** Researched management of Web Services executing in mobile and/or embedded environments. Developed new version of the Web Service Offerings Language (WSOL) for the formal specification of context and other mobility management information, as well as new version of the corresponding monitoring and management Web Service Offerings Infrastructure (WSOI). Results published in several refereed papers.
- 1999-2004 **Research Assistant, Network Management and Artificial Intelligence Laboratory, Carleton University (Ottawa, Canada):** Researched management of Web Services and their compositions. Developed novel Web Service Offerings Language (WSOL) for the formal specification of constraints and contracts for Web Services, as well as the corresponding monitoring and management Web Service Offerings Infrastructure (WSOI). Results published in several refereed papers and the Ph.D. dissertation. Assisted in network, system, and WWW page administration.
- 1996-1998 **Student Researcher (1997-1998) / Intern (1996-1997), OpenView Software (a.k.a. Network and Systems Management) Division, Hewlett-Packard Company (Boeblingen, Germany):** Developed various network and system management software, such as compilers for the Managed Object Format (MOF) language of the Common Information Model (CIM) standard for Web-Based Enterprise Management (WBEM). Contract extended two times and resulted in the Mag.Sc. thesis. Non-proprietary results of the Mag.Sc. thesis published in a refereed paper.
- 1996 **Research Assistant (for 8 months), Computer Graphics and Geographic Information Systems (GIS) Lab, Faculty of Electronic Engineering, University of Nis (Serbia, Yugoslavia):** Developed GIS software (tasks in computer graphics and networking) and WWW presentations. This GIS software has been used by commercial customers. Results published in several refereed papers.
- 1995 **Research Assistant (for 2 summer months), Robotics Lab, Faculty of Electronic Engineering, University of Nis (Serbia, Yugoslavia):** Developed neural network software applications in robotics. Work resulted in the Dipl.Ing. thesis and several refereed papers.

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## **RESEARCH STATEMENT**

Available, upon request, as a **separate document**.

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## **MAJOR PUBLICATION IMPACT METRICS**

(An updated and extended list of publication impact metrics is available upon request. The metric values listed in this CV were calculated using Harzing's "Publish or Perish" software, on 03 December 2011.)

**Total number of citations: 1062**

**h-index: 17**

**g-index: 31**

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## **SELECTED PUBLISHED AND PRESENTED PAPERS IN ENGLISH**

(Reprints of all publications are available upon request by e-mail with "Request for Your Research Publications" in the Subject line.)

### **A) EDITED CONFERENCE/WORKSHOP PROCEEDINGS IN ENGLISH**

1. Goeshka, K.M., Dustdar, S., Tosic, V. (eds.) "***Proceedings of the 6th International Workshop on Middleware for Service Oriented Computing (MW4SOC) 2011***", Proc. of the MW4SOC 2011 workshop held at the ACM/IFIP/USENIX 12th International Middleware Conference – Middleware 2011, Lisbon, Portugal, December 12, 2011, ACM. Editorial: Goeshka, K.M., Dustdar, S., Tosic, V. "**Editorial Message: Middleware for Service Oriented Computing Workshop 2011**", in *Proc. of the Middleware for Service Oriented Computing (MW4SOC) 2011* workshop held at the ACM/IFIP/USENIX 12th International Middleware Conference – Middleware 2011, Lisbon, Portugal, December 12, 2011, ACM, pp. iii-iv.
2. Tosic, V., Farrell, A., Goeshka, K.M., Hudert, S., Lutfiyya, H., Parkin, M. "***Proceedings of the International Workshop on Clouds for Enterprises (C4E) 2011***", published as part of *Proc. of the 13th IEEE Conference on Commerce and Enterprise Computing – CEC 2011*, Luxembourg, Luxembourg, September 5-9, 2011, IEEE. Editorial: Tosic, V., Farrell, A., Goeshka, K.M., Hudert, S., Lutfiyya, H., Parkin, M. "**Introduction to the IEEE CEC 2011 Workshop Clouds for Enterprises (C4E) 2011**", *Proc. of the 13th IEEE Conference on Commerce and Enterprise Computing – CEC 2011*, Luxembourg, Luxembourg, September 5-9, 2011, IEEE, pp. xiv-xv.
3. Goeshka, K.M., Dustdar, S., Leymann, F., Paik, H., Tosic, V., Frohofer, L. (eds.) "***Proceedings of the 5th International Workshop on Middleware for Service Oriented Computing (MW4SOC) 2010***", Proc. of the MW4SOC 2010 workshop held at the ACM/IFIP/USENIX 11th International Middleware Conference – Middleware 2010, Bangalore, India, November 29, 2010, ACM. Editorial: Goeshka, K.M., Dustdar, S., Leymann, F., Paik, H., Tosic, V., Frohofer, L. "**Editorial Message: Middleware for Service Oriented Computing Workshop 2010**", in *Proc. of the Middleware for Service Oriented Computing (MW4SOC) 2010* workshop held at the ACM/IFIP/USENIX 11th International Middleware Conference – Middleware 2010, Bangalore, India, November 29, 2010, ACM, pp. iv-ix.
4. Tosic, V. (ed.) "***Proceedings of IEEE EDOC 2009 Workshops and Short Papers***", Proc. of the workshops and short paper sessions held at EDOC 2009, Auckland, New Zealand, September 1-2, 2009, IEEE-CS. Editorial: Tosic, V. "**Proceedings of IEEE EDOC 2009 Workshops and Short Papers: Editor's Message**", in *Proc. of EDOC 2009 Workshops and Short Papers* held at EDOC 2009, Auckland, New Zealand, September 1-2, 2009, IEEE-CS, pp. iii-iv.

5. Goeshka, K.M., Dustdar, S., Leymann, F., Tomic, V. (eds.) “***Proceedings of the 3th Workshop on Middleware for Service Oriented Computing (MW4SOC) 2008***”, Proc. of the MW4SOC 2008 workshop held at the ACM/IFIP/USENIX 9th International Middleware Conference – Middleware 2008, Leuven, Belgium, December 1, 2008, ACM. Editorial: Goeshka, K.M., Dustdar, S., Leymann, F., Tomic, V. “**Editorial Message: Middleware for Service Oriented Computing Workshop 2008**”, in *Proc. of the Middleware for Service Oriented Computing (MW4SOC) 2008* workshop held at the ACM/IFIP/USENIX 9th International Middleware Conference – Middleware 2008, Leuven, Belgium, December 1, 2008, ACM, pp. 4-5.
6. Tomic, V., Goeshka, K.M., van Moorsel, A., Wong, R. (eds.) “***Proceedings of Middleware for Web Services (MWS) 2008***”, Proc. of the MWS 2008 workshop held at EDOC 2008, Munich, Germany, September 16, 2008, IEEE-CS. Editorial: Tomic, V., Goeshka, K.M., van Moorsel, A., Wong, R. “**Introduction to the Proceedings of Middleware for Web Services (MWS) 2008**”, in *Proc. of the Middleware for Web Services (MWS) 2008* workshop held at EDOC 2008, Munich, Germany, September 16, 2008, IEEE-CS, pp. 1-5. Also published in *Proc. of the 12th IEEE EDOC Conference – EDOC 2008 Workshops*, IEEE-CS.
7. Goeshka, K.M., Dustdar, S., Leymann, F., Tomic, V. (eds.) “***Proceedings of the 2nd Workshop on Middleware for Service-Oriented Computing (MW4SOC) 2007***”, Proc. of the MW4SOC 2007 workshop held at the ACM/IFIP/USENIX 8th International Middleware Conference – Middleware 2007, Newport Beach, California, USA, November 26, 2007, ACM. Editorial: Goeshka, K.M., Dustdar, S., Leymann, F., Tomic, V. “**Editorial Message: Middleware for Service Oriented Computing Workshop 2007**”, in *Proc. of the Middleware for Service Oriented Computing (MW4SOC) 2007* workshop held at the ACM/IFIP/USENIX 8th International Middleware Conference – Middleware 2007, Newport Beach, California, USA, November 26, 2007, ACM, pp. 4-5.
8. Tomic, V., Goeshka, K.M., van Moorsel, A., Wong, R. (eds.) “***Proceedings of Middleware for Web Services (MWS) 2007***”, Proc. of the MWS 2007 workshop held at EDOC 2007, Annapolis, Maryland, USA, October 16, 2007, IEEE-CS. Editorial: Tomic, V., Goeshka, K.M., van Moorsel, A., Wong, R. “**Introduction to the Proceedings of Middleware for Web Services (MWS) 2007**”, in *Proc. of the Middleware for Web Services (MWS) 2007* workshop held at EDOC 2007, Annapolis, Maryland, USA, October 16, 2007, IEEE-CS, pp. 1-4. Also published in *Proc. of the 11th IEEE EDOC Conference – EDOC 2007 Workshops*, IEEE-CS, pp. 69-72.
9. Tomic, V., van Moorsel, A., Wong, R. (eds.) “***Proceedings of Middleware for Web Services (MWS) 2006***”, Proc. of the MWS 2006 workshop held at EDOC 2006, Hong Kong, China, October 16, 2006, IEEE-CS. Editorial: Tomic, V., van Moorsel, A., Wong, R. “**Introduction to the Proceedings of Middleware for Web Services (MWS) 2006**”, in *Proc. of the Middleware for Web Services (MWS) 2006* workshop held at EDOC 2006, Hong Kong, China, October 16, 2006, IEEE-CS, pp. 1-4. Also published in *Proc. of the 10th IEEE EDOC Conference – EDOC 2006 Workshops*, IEEE-CS, p. 7.
10. Tomic, V., van Moorsel, A., Wong, R. (eds.) “***Proceedings of Middleware for Web Services (MWS) 2005***”, Proc. of the MWS 2005 workshop held at EDOC 2005, Enschede, The Netherlands, September 19, 2005, IEEE-CS. Editorial: Tomic, V., van Moorsel, A., Wong, R. “**Introduction to the Proceedings of Middleware for Web Services (MWS) 2005**”, in *Proc. of the Middleware for Web Services (MWS) 2005* workshop held at EDOC 2005, Enschede, The Netherlands, September 19, 2005, IEEE-CS, pp. 1-2.

## **B) EDITED JOURNAL ISSUES IN ENGLISH**

11. Goeshka, K.M., Paik, H., Tomic, V. (eds.) “**Special Issue: Engineering Middleware for Service-Oriented Computing**”, *International Journal of Systems and Service-Oriented Engineering (IJSSOE)*, special issue, Vol. 1, No. 3 (July-Sep. 2010), IGI Global. Editorial: Goeshka, K.M., Paik, H., Tomic, V. “**Engineering Middleware for Service-Oriented Computing**”, *International Journal of Systems and Service-Oriented Engineering (IJSSOE)*, special issue on Engineering Middleware for Service-Oriented Computing, Vol. 1, No. 3 (July-Sep. 2010), IGI Global, pp. i-vi.
12. Tomic, V., van Moorsel, A., Wong, R. (eds.) “**Special Issue on Middleware for Web Services (MWS)**”, *International Journal of Business Process Integration and Management (IJBPIIM)*, special issue, Vol. 2, No. 3 (July-Sep. 2007), Inderscience. Editorial: Tomic, V., van Moorsel, A., Wong, R. “**Introduction to the Special Issue on Middleware for Web Services (MWS)**”, *International Journal of Business Process Integration and Management (IJBPIIM)*, special issue on Middleware for Web Services (MWS), Vol. 2, No. 3 (July-Sep. 2007), Inderscience, pp. 153-155.

## **C) INVITED PAPERS (NOT PEER REVIEWED) AND CONFERENCE/WORKSHOP**

### **KEYNOTE TALKS IN ENGLISH**

13. Tomic, V., Wada, H., Guabtni, A., Lee, K., Liu, A. “**Management towards Reducing Cloud Usage Costs**”, conference keynote with abstract published in *Proc. of the 7th Latin American Network Operations and Management Symposium (LANOMS 2011)*, Quito, Ecuador, October 10-11, 2011, IEEE, p. 1.
14. Tomic, V. “**Autonomic Business-Driven Dynamic Adaptation of Service-Oriented Systems and the WS-Policy4MASC Support for Such Adaptation**”, invited paper in *International Journal of Systems and Service-Oriented Engineering (IJSSOE)*, IGI Global, Vol. 1, No. 1 (Jan.-Mar. 2010), pp. 79-95.
15. Tomic, V. “**On Modeling and Maximizing Business Value for Autonomic Service-Oriented Systems**”, invited paper in *Proc. of Business Process Management (BPM) 2008 Workshops* (keynote at the 1st International Workshop on QoS in Self-healing Web Services – QSWs-08), Milan, Italy, September 1, 2008, Springer, Lecture Notes in Business Information Processing (LNBIP), No. 17, pp. 422-433. Early version of the same paper published in pre-proceedings of the QSWs-08 workshop, pp. 1-12.

## **D) PAPERS IN ENGLISH PUBLISHED IN INTERNATIONAL JOURNALS WITH ANONYMOUS PEER REVIEW BASED ON THE FULL PAPER**

16. Tang, Y., Lutfiyya, H., Tomic, V. “**An Analysis of Web Service SLA Management Infrastructures Based on the C-MAPE Model**”, *International Journal of Business Process Integration and Management (IJBPIIM)*, special issue on Contract Architectures and Languages, Inderscience, Vol. 4, No. 3 (July – September 2009), pp. 209-218. Early version of this paper was published in *Proc. of CoALa 2005 (Workshop on Contract Architectures and Languages)* held at EDOC 2005, Enschede, The Netherlands, September 20, 2005, IEEE-CS.
17. Babar, A., Cox, K., Tomic, V., Bleistein, S., Verner, J. “**Integrating B-SCP and MAP to Manage the Evolution of Strategic IT Requirements**”, *Information and Software Technology*, Elsevier, Vol. 50, No. 7-8 (June 2008), pp. 815-831.
18. Tomic, V., Erradi, A., Maheshwari P. “**On Extending WS-Policy with Specification of XML Web Service Semantics, Monitoring, and Control Driven by Business Value**”,

- WSEAS Transactions on Computers*, WSEAS Press, Vol. 6, No. 5 (May 2007), 2007, pp. 805-812. This is an extended version of the paper (by the same authors) “**On Extending WS-Policy with Specification of XML Web Service Semantics**” published in *Proc. of the 2007 WSEAS International Conference on Computer Engineering and Applications (CEA'07)*, Gold Coast, Australia, January 17-19, 2007, WSEAS Press, pp. 407-412.
19. Tomic, V., Pagurek, B., Esfandiari, B., Lutfiyya, H. “**Analytical Comparisons of Switching of Web Services and Switching of Service Offerings**”, *International Journal of Web and Grid Services (IJWGS)* special issue on Web Services, Business Process, and Services Science, Inderscience, Vol. 2, No. 1, 2006, pp. 50-67.
  20. Tomic, V., Ma, W., Esfandiari, B., Pagurek, B., Lutfiyya, H. “**Extending Apache Axis for Monitoring of Web Service Offerings**”, *International Journal of Cases on Electronic Commerce (IJCEC)*, Idea Group, Vol. 2, No. 3 (July-Sept. 2006, special issue on Business Services Networks), 2006, pp. 53-75. The same paper was later selected by Idea Group for re-publication as a teaching case and a book chapter in 2 books. The first book with republication of this paper is: Becker, S.A. (ed.) “*Electronic Commerce: Concepts, Methodologies, Tools, and Applications*”, Information Science Reference (IGI Global), pp. 641-658, 2007. The second book with republication of this paper is: Tan, F.B. (ed.) “*Global Information Technologies: Concepts, Methodologies, Tools, and Applications*”, Information Science Reference (IGI Global), pp. 944-960, 2007. This paper is a significantly extended and updated version of the paper: Ma, W., Tomic, V., Esfandiari, B., Pagurek, B. “**Extending Apache Axis for Monitoring of Web Service Offerings**”, in *Proc. of the IEEE Workshop on Business Services Networks (BSN'05)* held at EEE-05, Hong Kong, China, March 29, 2005, pp. 44-51.
  21. Tomic, V., Pagurek, B., Patel, K., Esfandiari, B., Ma, W. “**Management Applications of the Web Service Offerings Language (WSOL)**”, *Information Systems*, Elsevier, Vol. 30, No. 7 (Nov. 2005, special issue with the best CAiSE'03 papers), pp. 564-586. An early version of this paper was published in *Proc. of CAiSE'03 (The 15th International Conference on Advanced Information Systems Engineering)*, Velden, Austria, June 16-20, 2003, Springer-Verlag, Lecture Notes in Computer Science (LNCS), No. 2681, pp. 468-484. This paper was **one of the best CAiSE'03 papers**, so its revised version has been invited for journal publication. The journal version contains significant extensions and updates. Early versions of this paper were published as: Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, *Research Report SCE-03-29* (October 2003), *SCE-03-09* (May 2003), and *SCE-03-04* (February 2003).

**E) PAPERS IN ENGLISH PUBLISHED IN BOOK CHAPTERS OR  
CONFERENCE/WORKSHOP PROCEEDINGS WITH ANONYMOUS PEER REVIEW  
BASED ON THE FULL PAPER**

22. Lu, Q., Tomic, V., Bannerman, P.L. “**Support for the Business Motivation Model in the WS-Policy4MASC Language and MiniZnMASC Middleware**”, in *Proc. of the 9th International Conference on Service Oriented Computing (ICSOC 2011)*, Paphos, Cyprus, December 5-8, 2011, *Lecture Notes in Computer Science*, Vol. 7084, Springer, 2011, pp. 265-279. This is a significantly extended and updated version of the paper: Tomic, V., Bannerman, P.L., Ebrahimi Nejad, N., Lu, Q. “**Extending WS-Policy4MASC Language and MiniZnMASC Middleware with BMM Business Motivation**”, in *Proc. of the 8th International Conference on Autonomic Computing (ICAC 2011)*, Karlsruhe, Germany, June 14-18, 2011, ACM, pp. 189-190.

23. Lu, Q., Tomic, V., “**Support for Concurrent Adaptation of Multiple Web Service Compositions to Maximize Business Metrics**”, in *Proc. of the 12th IFIP/IEEE International Symposium on Integrated Network Management (IM 2011)*, Dublin, Ireland, May 23-27, 2011, IEEE, pp. 241-248. This is a significantly extended and updated version of the paper: Lu, Q., Tomic, V., “**MiniMASC+MiniZinc: An Autonomic Business-Driven Decision Making Middleware for Adaptation of Web Service Compositions**”, demo paper in *Proc. of the Symposia and Workshops on Ubiquitous, Autonomic and Trusted Computing held at UIC/ATC 2010*, Xi’an, China, October 26-29, 2010, IEEE-CS, pp. 474 - 477.
24. Tomic, V., Karunaratne, R.P., Lu, Q. “**Specification of Context for Management of Service-Oriented Systems with WS-Policy4MASC**”, in Leung, H.-F., Chiu, D.K.W., Hung, P.C.K. (eds.) “*Service Intelligence and Service Science: Evolutionary Technologies and Challenges*”, IGI Global, 2011, pp. 172-200.
25. Lu, Q., Tomic, V., “**MiniMASC: A Framework for Diverse Autonomic Adaptations of Web Service Compositions**”, in *Proc. of the Symposia and Workshops on Ubiquitous, Autonomic and Trusted Computing held at UIC/ATC 2010*, Xi’an, China, October 26, 2010, IEEE-CS, pp. 460-468.
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  47. Tomic, V., Lutfiyya, H., Tang, Y., Sherdil, K., Dimitrijevic, A. “**On Requirements for Management of Mobile/Embedded XML Web Services and a Corresponding Management System**”, in *Proc. of TELSIKS '05 (The 7th International Conference on Telecommunications in Modern Satellite, Cable, and Broadcasting Services)*, Nis, Serbia, Yugoslavia, Sept. 2005, IEEE, Vol. 1, pp. 57-60. An early version presented at the *IFIP/IEEE International Workshop on Management Issues and Challenges in Mobile Computing (MICMC) 2005* held at IM 2005, Nice, France, May 15, 2005.
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  49. Tomic, V., Pagurek, B. “**On Comprehensive Contractual Descriptions of Web Services**”, in *Proc. of EEE-05 (The 2005 IEEE International Conference on e-Technology, e-Commerce, and e-Service)*, Hong Kong, China, March 29 – April 1, 2005, IEEE, pp. 444-449. Early, longer, version published as: *Technical Report #635*, Department of Computer Science, The University of Western Ontario, London, Canada, October 2004.
  50. Tomic, V., Ma, W., Pagurek, B., Esfandiari, B. “**Web Services Offerings Infrastructure (WSOI) - A Management Infrastructure for XML Web Services**”, in *Proc. of NOMS (IEEE/IFIP Network Operations and Management Symposium) 2004*, Seoul, South Korea, April 19-23, 2004, IEEE, 2004, pp. 817-830. A version of this paper was published as *Research Report SCE-03-19*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, August 2003. The final NOMS 2004

version is shorter than this research report, but it also contains some updates and additions requested by referees.

51. Tosic, V., Patel, K., Pagurek, B. “**Reusability Constructs in the Web Service Offerings Language (WSOL)**”, in *Web Services, e-Business, and the Semantic Web - Proc. of the Second International Workshop, WES 2003 (Revised Selected Papers)*, Bussler, C. et al. (eds.), workshop held at CAiSE'03, Velden, Austria, June 2003, Springer-Verlag, Lecture Notes in Computer Science (LNCS), No. 3095, pp. 105-119, 2003. A significantly extended version of this paper was published as: Tosic, V., Patel, K., Pagurek, B. “**Reusability Constructs in the Web Service Offerings Language (WSOL) [Second Extended Revision]**”. *Research Report SCE-03-21*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, September 2003. Early versions of this paper were published as *Research Report SCE-03-14* (May 2003) and *Research Report SCE-03-08* (April 2003).
52. Tosic, V., Pagurek, B., Patel, K. “**WSOL – A Language for the Formal Specification of Classes of Service for Web Services**”, in *Proc. of ICWS'03 (The 2003 International Conference on Web Services)*, Las Vegas, USA, June 23-26, 2003, CSREA Press, pp. 375-381. This paper was **one of the best ICSW'03 papers**. An early version of this paper was published as *Research Report SCE-03-05*, The Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, February 2003.
53. Tosic, V., Mennie, D., Pagurek, B. “**Software Configuration Management Related to the Management of Distributed Systems and Service Oriented Architectures**”, in Westfechtel, B., van der Hoek, A. (eds.) *Software Configuration Management*, Springer-Verlag, Lecture Notes in Computer Science (LNCS), No. 2649, pp. 54-69, 2003. This is a significantly extended and updated version of the paper: Tosic, V., Mennie, D., Pagurek, B. “**Software Configuration Management Related to Management of Distributed Systems and Services and Advanced Service Creation**”, in *Proc. of the SCM-10 (The Tenth International Workshop on Software Configuration Management) workshop* (at ICSE 2001), Toronto, Canada, May 2001. This paper was **one of the best SCM-10 papers**, so its extended and updated version was published in LNCS 2649, together with the other best SCM-10 and SCM-11 papers.
54. Tosic, V., Patel, K., Pagurek, B. “**WSOL - Web Service Offerings Language**”, in *Proc. of the Workshop on Web Services, e-Business, and the Semantic Web - WES* (at CAiSE'02), Bussler, C. et al. (eds.), Toronto, Canada, May 2002, Springer-Verlag Lecture Notes in Computer Science (LNCS), No. 2512, pp. 57-67. An early version of this paper was published in preliminary workshop proceedings.
55. Tosic, V., Esfandiari, B., Pagurek, B., Patel, K. “**On Requirements for Ontologies in Management of Web Services**”, in *Proc. of the Workshop on Web Services, e-Business, and the Semantic Web - WES* (at CAiSE'02), Bussler, C. et al. (eds.), Toronto, Canada, May 2002, Springer-Verlag, Lecture Notes in Computer Science (LNCS), No. 2512, pp. 237-247. An early version of this paper was published in preliminary workshop proceedings.
56. Tosic, V., Mennie, D., Pagurek, B. “**On Dynamic Service Composition and Its Applicability to E-Business Software Systems - The ICARIS Experience**”, in Corchuelo et al. (eds.) *Advances in Business Solutions*, Catedral Publicaciones (Salamanca, Spain), pp. 93-104, 2002. This is an extended and improved version of: Tosic, V., Mennie, D., Pagurek, B. “**On Dynamic Service Composition and Its Applicability to E-Business Software Systems**”, in *Proc. of the WOBS'01 (Workshop*

on *Object-Oriented Business Solutions*) workshop (at ECOOP 2001), Budapest, Hungary, June 18, 2001, pp. 95-108.

**F) PAPERS IN ENGLISH PUBLISHED IN INTERNATIONAL CONFERENCE/WORKSHOP PROCEEDINGS WITH ANONYMOUS PEER REVIEW BASED ON AN EXTENDED ABSTRACT OR A SHORT PAPER**

57. Lu, Q., Tomic, V., “Using MiniZnMASC Middleware with Different Algorithms for Business-Driven Adaptation of Business Processes”, demo paper in *Proc. of the 12th IEEE International Symposium on Policies for Distributed Systems and Networks (Policy 2011)*, Pisa, Italy, June 6-8, 2011, IEEE, pp. 188-190.
58. Lu, Q., Xu, X., Tomic, V., Keung, J.W., Zhu, L. “Integration of RESTfulBP with BDIM Decision Making”, demo paper in *Proc. of the ACM/IFIP/USENIX 11th International Middleware Conference 2010 (Middleware 2010) Posters and Demos*, Bangalore, India, November 29 – December 3, 2010, ACM, pp. 5-8.
59. Suleiman, B., Tomic, V., Jeffery, R., Liu, J.(Y.) “Models and Algorithms for Business Value-Driven Adaptation of Business Processes and Software Infrastructure”, in *Companion Volume of Proc. of the 31st International Conference on Software Engineering (ICSE 2009)*, Vancouver, Canada, May 16-24, 2009, IEEE, pp 387-390. This is Basem Suleiman’s paper at the ICSE 2009 Doctoral Consortium. He is the author of this paper, while the 3 listed co-authors are his advisors (supervisors) acknowledged on the publication as required by the ICSE 2009 Doctoral Consortium rules.
60. Tomic, V., Liu, Y.(J.), Zhu, L. “On Combining WS-Policy4MASC and ASF to Support Business-Driven Autonomic Service-Oriented Computing”, in *Proc. of Business Process Management (BPM) 2008 Workshops (The 1st International Workshop on QoS in Self-healing Web Services – QSWs-08)*, Milssan, Italy, September 1, 2008, Springer, Lecture Notes in Business Information Processing (LNBIP), No. 17, pp. 434-439. Early version of the same paper published in pre-proceedings of the QSWs-08 workshop, pp. 13-18. An early, longer version of this paper was: Tomic, V., Liu, Y.(J.), Zhu, L. “Towards Business Driven Autonomic Service-Oriented Computing”, selected for presentation at the CASCON 2007 workshop *Fourth International Workshop on Engineering Autonomic Software Systems – EASS 2007*, Markham, Canada, October 2007, abstract published on-line.
61. Babar, A., Zowghi, D., Cox, K., Tomic, V., Bleistein, S., Verner, J. “Problem Frames and Business Strategy Modelling”, in *Proc. of the 3rd International Workshop on Applications and Advances in Problem Frames (IWAAPF’08)* at ICSSE 2008, Leipzig, Germany, May 10, 2008, ACM, pp. 48-51.
62. Yew, C.H., Tomic, V., Lutfiyya, H. “On Integrating Trust into Business-Driven Management of Web Services and Their Compositions”, in *Proc. of the Third IEEE/IFIP International Workshop on Business-Driven IT Management (BDIM 2008)*, Salvador, Brazil, April 7, 2008, IEEE, pp. 102-105.
63. Tomic, V., Suleiman, B., Babar, A. “Specification of Business Value with and in Software Patterns”, in *Proc. of the 1st International Workshop on Software Patterns and Quality (SPAQu’07)* at APSEC’07, Nagoya, Japan, December 3, 2007, Information Processing Society of Japan, pp. 49-50.
64. Tomic, V., Lutfiyya, H. “Integrating Business-Driven IT Management (BDIM) with Value-Based Software Engineering (VBSE)”, in *Proc. of the Second IEEE/IFIP International Workshop on Business-Driven IT Management (BDIM 2007)*, Munich, Germany, May 21, 2007, IEEE, pp. 97-98.

65. Castaldo, R.J., McKay, M.A., Tosic, V. “**Exposing GNU Octave Signal Processing Functions As Extensible Markup Language (XML) Web Services**”, in *Proc. of the 2006 Canadian Conference on Electrical and Computer Engineering (CCECE/CCGEI 2006)*, Ottawa, Canada, May 7-10, 2006, IEEE, pp. 1442-1445.
66. Tosic, V., Ma, W., Pagurek, B., Esfandiari, B. “**On the Dynamic Manipulation of Classes of Service for XML Web Services**”, in *Proc. of the 10th Hewlett-Packard Open View University Association (HP-OVUA) Workshop*, Geneva, Switzerland, July 6-9, 2003. A version of this paper was published as *Research Report SCE-03-15*, The Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, June 2003.
67. Tosic, V., Pagurek, B., Esfandiari, B., Patel, K. “**Management of Compositions of E- and M-Business Web Services with Multiple Classes of Service**”, in *Proc. of NOMS (IEEE/IFIP Network Operations and Management Symposium) 2002*, Florence, Italy, April 15-19, 2002, IEEE, pp. 935-937.
68. Tosic, V., Djordjevic-Kajan, S. “**The Common Information Model (CIM) Standard - An Analysis of Features and Open Issues**”, in *Proc. of TELSIKS '99 (The 4th International Conference on Telecommunications in Modern Satellite, Cable, and Broadcasting Services)*, Nis, Serbia, Yugoslavia, Oct. 1999, IEEE, Vol. 2, pp. 677-680.
69. Rancic, D., Djordjevic-Kajan, S., Stoimenov, L., Tosic, V. “**Some Applications of the Multimedia Geographical Information Systems**”, *Information and Communications Technologies in Tourism 1997*, A. Min Tjoa (ed.), (*Proc. of the 4th International Conference*, Edinburgh, Scotland, UK, January 22-24, 1997), Springer, pp. 327-335.

#### **G) CONFERENCE TUTORIALS IN ENGLISH – SELECTED AND PRESENTED AFTER SOME REVIEW, BUT NOT FULL FORMAL ANONYMOUS PEER REVIEW**

70. Bartolini, C., Tosic, V., Hung, P.C.K. “**Business-Driven Management and Governance of Service-Oriented Systems**”, 3 hour intermediate-level tutorial at *the 2009 IEEE International Conference on Web Services (ICWS 2009)*, Los Angeles, USA, July 6-10, 2009).
71. Tosic, V., Bartolini, C., Hung, P.C.K. “**Management of Service-Oriented Systems**”, 3 hour intermediate-level tutorial at *the 20th Australian Software Engineering conference (ASWEC 2009)*, Gold Coast, Australia, April 14-17, 2009).
72. Tosic, V., Bartolini, C., Hung, P.C.K. “**Management of Service-Oriented Implementations of Business Processes: From Quality of Service to Business Value**”, 3.5 hour intermediate-level tutorial at *the 6th International Conference on Business Process Management (BPM 2008)*, Milan, Italy, September 1-4, 2008).
73. Tosic, V., Hung, P.C.K. “**XML Web Services: Standards, Tools, and Ongoing Work towards Comprehensive Contractual Description**”, 4 hour beginner-level tutorial presented at *the 2007 WSEAS International Conference on Computer Engineering and Applications (CEA'07)*, Gold Coast, Australia, January 17-19, 2007).
74. Tosic, V., Hung, P.C.K. “**Contract-Based QoS Monitoring and Control of XML Web Services**”, 3 hour intermediate-level tutorial presented at *the Joint 8<sup>th</sup> IEEE Conference on E-Commerce Technology and 3<sup>rd</sup> IEEE Conference on Enterprise Computing, E-Commerce and E-Services (CEC/EEE 2006)*, San Francisco, USA, June 26-29, 2006).
75. Tosic, V., Hung, P.C.K. “**Quality of Service (QoS) Specification and Management for XML Web Services**”, 3.5 hour intermediate-level tutorial presented at *the 2005 IEEE Joint International Conference on Web Services / Services Computing Conference (ICWS/SCC 2005)*, Orlando, USA, July 11-15, 2005).

76. Tomic, V., Hung, P.C.K. “**Comprehensive Description and Management of XML Web Services**”, 2.5 hour beginner-level tutorial presented at the *IASTED International Conference on Web Technologies, Applications, and Services (WTAS 2005, Calgary, Canada, July 4-6, 2005)*.

**H) PAPERS AND PRESENTATIONS IN ENGLISH – SELECTED AND PUBLISHED AFTER SOME REVIEW, BUT NOT FULL FORMAL ANONYMOUS PEER REVIEW**

77. Tomic, V., Islam, S., Lee, K., Fekete, A., Liu, A. “**Cloud Elasticity and Its Importance for Cloud Management**”, introductory statement in the panel “**Trends in Managing Virtual Infrastructures: from Networks to Clouds**” held *the 7th Latin American Network Operations and Management Symposium (LANOMS 2011)*, Quito, Ecuador, October 10-11, 2011. Slides published on-line.
78. Tomic, V. “**Middleware for Clouds vs. Middleware for Other SOC: What Is Different and What Is Not?**”, introductory presentation at the discussion session held at *the Middleware for Service Oriented Computing (MW4SOC) 2010 workshop* at Middleware 2010, Bangalore, India, November 29, 2010. Abstract and slides published on-line.
79. Tomic, V. “**Three Common Mistakes in Modeling and Analysis of QoS of Service Oriented Systems**”, introductory presentation at the discussion session held at the *1st International Workshop on Quality-of-Service Concerns in Service Oriented Architectures – QoSCSOA’08* at ICSOC 2008, Sydney, Australia, December 1, 2008. Abstract published in formal workshop proceedings. Abstract and slides published on-line.
80. Tomic, V. (moderator) “**Industrial Standards for Web Services: Achieved Results and Challenges for the Future**”, panel at the *12th IEEE EDOC Conference – EDOC 2008*, Munich, Germany, September 15-19, 2008. Abstract published on-line.
81. Tomic, V., Kannengiesser, U. “**Improving Business Processes in the Australian Lending Industry**”, industry track presentation with abstract published in *Proc. of the 12th IEEE EDOC Conference – EDOC 2008*, Munich, Germany, September 15-19, 2008, IEEE, pp. xxiv-xxiv.
82. Suleiman, B., Aliev, E., Tomic, V. “**Time-Quality Metric Model for Quality Measurement of Web-Based Systems**”, poster presentation with abstract in *Proc. of the 14th Asia-Pacific Software Engineering Conference (APSEC 2007)*, Nagoya, Japan, Dec. 3-7, 2007, IEEE-CS, p. 566.
83. Tomic, V. “**Impact of Various Execution Environments on Middleware for Web Services**”, introductory presentation at the discussion session held at *the Middleware for Web Services (MWS) 2007 workshop* at EDOC 2007, Annapolis, Maryland, USA, October 16, 2007. Abstract and slides published on-line.
84. Tomic, V., van Moorsel, A., Wong, R. “**Quality of Service (QoS) Middleware for Web Services: Achieved Results and Challenges for the Future – Middleware for Web Services (MWS) Panel**”, extended panel abstract in *Proc. of Middleware for Web Services (MWS) 2005 workshop* held at EDOC 2005, Enschede, The Netherlands, September 19, 2005, IEEE-CS, pp. 65-67.
85. Tomic, V., Pagurek, B., Patel, K., Esfandiari, B., Ma, W. “**The Web Service Offerings Language (WSOL) and the Web Service Offerings Infrastructure (WSOI)**”, invited presentation at the CASCON 2003 workshop *Policy and Service Level Agreements: Their Role in Automated Management in Systems*, Markham, Canada, October 2003. Abstract published on-line.

86. Patel, K., Tosic, V., Pagurek, B. “**XML Grammar and Parser for WSOL**”, presentation at the *CITO (Communications and Information Technology Ontario) Knowledge Network Conference 2002*, Ottawa, Canada, October 2002. Abstract published in conference proceedings by CITO.
87. Tosic, V., Pagurek, B., Esfandiari, B., Patel, K., Ma, W. “**Web Service Offerings Language (WSOL) and Web Service Composition Management (WSCM)**”, position paper at the *Workshop on Object-Oriented Web Services - OOWS (at OOPSLA 2002)*, Seattle, USA, November 2002. Paper published in on-line workshop proceedings. Also published as: *Technical Report OCIECE-02-05*, Ottawa-Carleton Institute for Electrical and Computer Engineering - OCIECE, September 2002.
88. Tosic, V., Pagurek, B., Esfandiari, B., Patel, K. “**On the Management of Compositions of Web Services**”, position paper at the *Workshop on Object-Oriented Web Services - OOWS (at OOPSLA 2001)*, Tampa, USA, October 2001. Paper published in on-line workshop proceedings. Also published as: *Technical Report OCIECE-01-10*, Ottawa-Carleton Institute for Electrical and Computer Engineering - OCIECE, October 2001.
89. Tosic, V., Patel, K., Pagurek, B. “**E-Business Service Components with Multiple Classes of Service and Dynamic Adaptability Mechanisms**”, presentation at the *CITO Knowledge Network Conference 2001*, Ottawa, Canada, October 2001. Abstract published in conference proceedings by CITO.
90. Tosic, V., Pagurek, B. “**A New Approach to Information Modeling for Manageable Component-Based, Active, and Autonomous Service Provisioning**”, presentation at the *CITO Knowledge Network Conference 2000*, Nepean (Ottawa), Canada, October 2000. Abstract published in conference proceedings by CITO. This presentation won the **CITO Knowledge Network Student Presenter Award**.

#### I) THESES IN ENGLISH

91. Tosic, V. “**Service Offerings for XML Web Services and Their Management Applications**”, *Ph.D. dissertation*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, August 2004.
92. Tosic, V. “**On Object-Oriented Information Specification in Network and System Management**” (in English, also translated into Serbian), *Mag.Sc. thesis*, Faculty of Electronic Engineering, University of Nis, Serbia, Yugoslavia, November 1998.

#### J) SELECTED UNREFEREED RESEARCH REPORTS IN ENGLISH

93. Tosic, V., Erradi, A., Maheshwari, P. “**WS-Policy4MASC Version 0.8**”, *Technical Report no. UNSW-CSE-TR-0702*, School of Computer Science and Engineering, University of New South Wales, Australia, January 2007.
94. Tosic, V. “**Is Self-Management a Right Buzzword for Modern Management Challenges?**”, *Technical Report #647*, Department of Computer Science, University of Western Ontario, Canada, 2005.
95. Tosic, V., Lutfiyya, H., Tang, Y. “**Major Requirements for a System for Comprehensive Management of XML Web Services**”, *Technical Report #644*, Department of Computer Science, University of Western Ontario, Canada, April 2005.
96. Tosic, V. “**On the Algorithms and Protocols for Manipulation of Service Offerings**”, *Research Report SCE-04-12*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, August 2004.
97. Tosic, V. “**WSOL Version 1.2**”, *Research Report SCE-04-11*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, July 2004.

98. Tomic, V. “**WSOL versus Related Work**”, *Research Report SCE-04-07*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, June 2004.
99. Tomic, V. “**Overview of Some Industrial Products for Web Service Management (WSM) and Web Service Composition Management (WSCM)**”, *Research Report SCE-04-06*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, May 2004.
100. Tomic, V. “**Extending the Design by Contract Software Engineering Approach with Differentiated Contracts**”, *Research Report SCE-04-05*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, May 2004.
101. Patel, K., Pagurek, B., Tomic, V. “**Improvements in WSOL Grammar and ‘Premier’ WSOL Parser**”, *Research Report SCE-03-25*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, October 2003.
102. Tomic, V. “**The Position of the Web Service Offerings Infrastructure (WSOI)**”, *Research Report SCE-03-09*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, April 2003.
103. Tomic, V., Pagurek, B., Patel, K. “**WSOL – A Language for the Formal Specification of Various Constraints and Classes of Service for Web Services**”, *Technical Report OCIECE-02-06*, Ottawa-Carleton Institute for Electrical and Computer Engineering - OCIECE, November 2002.
104. Tomic, V., Pagurek, B., Esfandiari, B., Patel, K. “**On Various Approaches to Dynamic Adaptation of Distributed Component Compositions**”, *Technical Report OCIECE-02-02*, Ottawa-Carleton Institute for Electrical and Computer Engineering (OCIECE), June 2002.
105. Tomic, V. “**Dynamic Adaptation of Service Compositions Using Service Offerings**”, *Ph.D. thesis proposal*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, January 2002.
106. Tomic, V., Pagurek, B. “**E-Commerce Service Components with Multiple Classes of Service and Dynamic Adaptability Mechanisms**”, *Technical Report OCIECE-01-09*, Ottawa-Carleton Institute for Electrical and Computer Engineering (OCIECE), May 2001.

#### **K) SELECTED UNREFEREED PUBLIC PRESENTATIONS AND SEMINARS IN ENGLISH**

107. Tomic, V. “**NICTA’s Business Adaptation and Interoperation (BAI) Project**”, several seminars (with significant differences/updates, but using the same talk design), held at: HP Labs Bristol (Bristol, UK), University of Nis (Nis, Serbia), June 2010 – June 2011.
108. Tomic, V. “**Formalization of a Software Systems Research Methodology that Uses Prototypes for Evaluation**”, several seminars (with some differences/updates and somewhat different names, but using the same talk design), held at: NICTA (Sydney, Australia), University of Nis (Nis, Serbia), February 2011 – June 2011.
109. Tomic, V. “**On Quality of Service (QoS) Specification and Management for Service-Oriented Systems**”, several lectures (with some differences/updates, but using the same talk design), held at: HP Labs Bristol (Bristol, UK), Xi’an Jiaotong University (Xi’an, China), Mahanakorn University of Technology (Bangkok, Thailand), Victoria University Wellington (Wellington, New Zealand), July 2010 – March 2011.
110. Tomic, V. “**Towards Business Value Driven Management of Business Processes and Service-Oriented Architectures**”, several seminars (with some differences/updates, but using the same talk design), held at: CREATE-NET (Trento, Italy), University of

Rome "Tor Vergata" (Rome, Italy), Technical University of Vienna (Vienna, Austria), University of Stuttgart (Stuttgart, Germany), University of Newcastle (Newcastle, Australia), Monash University (Melbourne, Australia), Swinburne University of Technology (Melbourne, Australia), NICTA (Sydney, Australia), HP Labs Bristol (Bristol, UK), Cardiff University (Cardiff, UK), University of Dublin - Trinity College Dublin (Dublin, Ireland), Institute of Software Chinese Academy of Sciences (Beijing, China), August 2008 – November 2010.

111. Tosic, V. “**On Quality of Service (QoS) Specification and Analysis for XML Web Services and Their Compositions**”, several lectures (with some differences/updates, but using the same talk design), presented to the *Australian Computer Society (ACS) NSW Web Technologies Special Interest Group (SIG)* in Sydney, Australia, to the *ACM Victoria Service-Oriented Computing (SOC) SIG* in Melbourne, Australia, and at Ritsumeikan University (Kyoto, Japan), February 2009 – April 2010.
112. Tosic, V. “**Evaluation – The Crucial Part of Research (and Your Ph.D. Dissertation, too)**”, seminar at NICTA (Sydney, Australia), September 2009. This is improved version of the lecture (with the same name) within the graduate course *GSOE9400 "Engineering Postgraduate Research Essentials"*, University of New South Wales, Sydney, Australia, 2009.
113. Tosic, V. “**Business Value Driven Engineering and Management of Web Services and Their Compositions**”, several seminars (with some differences/updates, but using the same talk design), held at: HP Labs Palo Alto (Palo Alto, USA) 2 times (to different audiences), IEEE Computer Society Ottawa Section (Ottawa, Canada), University of Sydney (Sydney, Australia), Macquarie University (Sydney, Australia), NICTA (Sydney, Australia), University of Wollongong (Wollongong, Australia), University of South Pacific (Suva, Fiji), October 2007 – May 2008.
114. Tosic, V. “**Service Science Is NOT Needed**”, position presentation slides distributed to participants at the *Workshop on Service Science, Technologies, and Architectures*, Sydney, Australia, May 2008.
115. Tosic, V. “**Web Services and LIXI: A Primer**”, tutorial presented at the *LIXI (Lending Industry XML Initiative) Workshop*, Sydney, Australia, August 2007.
116. Erradi, A., Maheshwari, P, Tosic, V. “**Policy-Driven Middleware for Self-Adaptation of Web Services Compositions**”, several seminars (with some differences/updates, but using the same talk design), held at different venues in Australia and Europe, October 2006 – December 2006.
117. Tosic, V. “**Using the Web Service Offerings Language and Infrastructure (WSOL/WSOI) for Management of XML Web Services**”, several seminars (with some differences/updates, but using the same talk design), held at different venues in Canada and Australia, March 2005 – August 2006.
118. Tosic, V. “**The Specification, Monitoring, and Management of Classes of Service for XML Web Services**”, several seminars (with some differences/updates, but using the same talk design), held at different venues in Canada, December 2003 – May 2004.
119. Patel, K., Tosic, V., Pagurek, B. “**Web Service Offerings Language (WSOL): Characteristics, Applications, and Tools**”, presented at the *Ottawa IEEE Computer Society Seminar Series*, Ottawa, Canada, July 2003.
120. Tosic, V., Patel, B., Pagurek, B. “**Characteristics of the Web Service Offerings Language (WSOL)**”, presented at the *Network Management and Artificial Intelligence Lab Seminar*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, November 2002.

121. Totic, V., Patel, B., Pagurek, B., Esfandiari, B. “**Dynamic Adaptation of Service Compositions Using Service Offerings**”, presented at the *Network Management and Artificial Intelligence Lab Seminar*, Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, February 2002.
122. Totic, V. “**Some Research Issues in Network and System Management, Dynamic Service Composition, and Service Components**” (in English, summary in Serbian and English), presented at the *Faculty of Electronic Engineering Seminar Series*, Faculty of Electronic Engineering, University of Nis, Nis, Serbia, Yugoslavia, June 2001.

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## **SELECTED PUBLISHED AND PRESENTED PAPERS IN OTHER LANGUAGES**

(Continues the above list of publications in English. Does not include numerous unrefereed publications and presentations. Reprints of all publications are available upon request by e-mail with "Request for Your Research Publications" in the Subject line.)

### **M) EDITED JOURNAL VOLUMES IN SERBIAN**

123. Totic, V. (ed.) “*Naucni Podmladak*”, Vol. 27, No. 1-4, University of Nis, 1995.

### **N) PAPERS IN SERBIAN PUBLISHED IN INTERNATIONAL OR NATIONAL CONFERENCE PROCEEDINGS WITH ANONYMOUS PEER REVIEW BASED ON THE FULL PAPER**

124. Dimitrijevic, A., Stoimenov, L., Totic, V. “**A Proposal for Principles for Developing Client/Server GIS Web Applications in Java**” (in Serbian), in *Proc. of YUINFO '99*, Kopaonik, Serbia, Yugoslavia, March 1999.
125. Totic, V., Rancic, D., Dimitrijevic, A. “**Analysis of the Programming Language Support for Agent Programming**” (in Serbian), in *Proc. of the 3rd Conference Information Technologies - Present and Future 1998*, Jaukovic, N. D., Stankovic, S. S., Turajlic, S. R. (eds.), Zabljak, Montenegro, Yugoslavia, March 1998, pp. 12-15.
126. Petkovic, M., Mitrovic, D., Totic, V. “**Hierarchy of Graphical Classes in the GeoTT System**” (in Serbian), in *Proc. of ETRAN '96*, Budva, Montenegro, Yugoslavia, June 1996.
127. Volcansek, B., Totic, V. “**Object-oriented Implementation of the Visual System for Work with Decision Diagrams**” (in Serbian), in *Proc. of YUINFO '96*, Brezovica, Serbia, Yugoslavia, April 1996.
128. Totic, V., Volcansek, B. “**VENEM - A Program for Becoming Acquainted with Artificial Neural Networks**” (in Serbian), in *Proc. of YUINFO '96*, Brezovica, Serbia, Yugoslavia, April 1996.

### **O) PAPERS IN SERBIAN PUBLISHED IN INTERNATIONAL OR NATIONAL CONFERENCE PROCEEDINGS WITH ANONYMOUS PEER REVIEW BASED ON AN EXTENDED ABSTRACT OR A SHORT PAPER**

129. Totic, V., Petkovic, M. “**Some Comparisons of Graphical Support in Smalltalk-80 and Microsoft Visual C++ Programming Languages**” (in Serbian), in *Proc. of SINFON '96*, Zlatibor, Serbia, Yugoslavia, November 1996.
130. Petkovic, M., Totic, V. “**Data Sources for Geographical Information Systems**” (in Serbian), in *Proc. of SINFON '96*, Zlatibor, Serbia, Yugoslavia, November 1996.

131. Tomic, V., Volcansek, B. “**Object-oriented Implementation of Artificial Neural Networks**” (in Serbian), in *Proc. of SINFON '95*, Zlatibor, Serbia, Yugoslavia, November 1995.
132. Volcansek, B., Tomic, V. “**Visual Environment for Work with Binary Decision Diagrams**” (in Serbian), in *Proc. of SINFON '95*, Zlatibor, Serbia, Yugoslavia, November 1995.

**P) PAPERS AND PRESENTATIONS IN SERBIAN – SELECTED AND PUBLISHED AFTER SOME REVIEW, BUT NOT FULL FORMAL ANONYMOUS PEER REVIEW**

133. Tomic, V. “**Object-Oriented Software Engineering**” (in Serbian), *ELEF*, Nis, Serbia, Yugoslavia, Vol. 25, No. 6, 1996, pp. 19-21.
134. Tomic, V., Volcansek, B. “**Artificial Neural Nets and Pattern Recognition**” (in Serbian), *Naucni podmladak*, Nis, Serbia, Yugoslavia, Vol. 27, No. 1-4, 1995, pp. 63-71.
135. Volcansek, B., Tomic, V. “**ISDN, B-ISDN**” (in Serbian), in *Proc. of SUSEJ '95*, Budva, Montenegro, Yugoslavia, May 1995.
136. Tomic, V., Volcansek, B. “**A Program for Work with Various Kinds of Artificial Neural Nets**” (in Serbian), in *Proc. of SUSEJ '95*, Budva, Montenegro, Yugoslavia, May 1995.
137. Tomic, V. “**Artificial Intelligence?**” (in Serbian), *ELEF*, Nis, Serbia, Yugoslavia, Vol. 35, No. 4-5, 1995, pp. 45-47.
138. Tomic, V. “**Multimedia Information Technologies**” (in Serbian), *ELEF*, Nis, Serbia, Yugoslavia, Vol. 34, No. 2-3, 1995, pp. 19-20.
139. Tomic, V. “**Building Expert Systems**” (in Serbian), *Naucni podmaladak*, Nis, Serbia, Yugoslavia, Vol. 23, No. 1-2, 1991, pp. 85-90.
140. Tomic, V. “**Characteristics of Expert Systems**” (in Serbian), *Naucni podmaladak*, Nis, Serbia, Yugoslavia, Vol. 23, No. 1-2, 1991, pp. 79-83.
141. Tomic, V. “**The Concept of Knowledge in Artificial Intelligence**” (in Serbian), *Info*, Belgrade, Serbia, Yugoslavia, Vol. 1, No. 3, 1993, pp. 22-27.
142. Tomic, V. “**Fields of Artificial Intelligence Research**” (in Serbian), *Praksa*, Belgrade, Serbia, Yugoslavia, Vol. 26, No. 4, April 1991, pp. 7 -11.

**Q) THESES IN SERBIAN**

143. Tomic, V. “**Object-Oriented Implementation of Artificial Neural Networks**” (in Serbian), *Dipl.Ing. thesis* (in Electrical Engineering, Computer Science and Engineering stream), Faculty of Electronic Engineering, University of Nis, Serbia, Yugoslavia, December 1995.

**MAJOR RESEARCH GRANTS, SCHOLARSHIPS, AND AWARDS**

<b>Period</b>	<b>Name of the award</b>	<b>Value per year in CND\$</b>	<b>Level</b>	<b>Type</b>	<b>Location of tenure</b>
2007-2010	<b>NSERC (Natural Sciences and Engineering Research Council of Canada) Discovery Grant</b> (declined due to the acceptance of the researcher job at NICTA, Australia)	20000	Federal	Research	Lakehead University, Canada or University of Western Ontario, Canada (transferable within Canada)
2005-2006	<b>Senate Research Committee NSERC Research Development Fund grant</b>	4090	Institutional	Research	Lakehead University, Canada
2005-2006	<b>NSERC Researchw Capacity Development top-up to the start-up research funding</b>	8000	Institutional	Research	Lakehead University, Canada
2005-2006	<b>Start-up research funding</b>	8000	Institutional	Research	Lakehead University, Canada
2005-2006	<b>NSERC (Natural Sciences and Engineering Research Council of Canada) Post-Doctoral Fellowship</b> (year 2 of 2, declined to be able to accept the assistant professor job at Lakehead University)	40000	Federal	Research	University of Waterloo, Canada
2004-2005	<b>NSERC (Natural Sciences and Engineering Research Council of Canada) Post-Doctoral Fellowship</b> (year 1 of 2, completed)	40000	Federal	Research	University of Western Ontario, Canada
2002-2004	Ministry of Training, Colleges, and Universities of Ontario (Canada) <b>Ontario Graduate Scholarship (OGS)</b>	15000	Provincial	Academic / research	Carleton University, Canada
1999-2004	<b>Research assistantship</b>	up to ~ 18400	Institutional	Research	Carleton University, Canada
1999-2001, 2003-2004	<b>Teaching assistantship</b> (I was also offered teaching assistantships after the fall term 2001, but chose to let other students receive these awards)	~ 8000	Institutional	Academic / leadership	Carleton University, Canada
1999-2004	<b>Department of Systems and Computer Engineering (Carleton University) Scholarship</b>	up to 4000	Institutional	Academic / research	Carleton University, Canada

2002	<b>Carleton University Scholarship</b>	2000	Institutional	Academic	Carleton University, Canada
2002	<b>CITO (Communications and Information Technology Ontario, Canada) Graduate Scholarship</b>	2000	Provincial	Research	Carleton University, Canada
2001-2002	Ministry of Training, Colleges, and Universities of Ontario (Canada) <b>Ontario Graduate Scholarship in Science and Technology (OGSST)</b> with matching funds from Nortel Networks (Ontario, Canada)	15000	Provincial	Academic / research	Carleton University, Canada
2001	<b>Upsilon Pi Epsilon (UPE) / IEEE (The Institute of Electrical and Electronics Engineers) Computer Society Award for Academic Excellence</b> (“For outstanding academic achievement in the computing discipline”)	~ 800	International	Academic / leadership	Carleton University, Canada
1999-2001	Carleton University (Canada) <b>Academic Excellence Scholarship for International Students</b>	5000	Institutional	Academic	Carleton University, Canada
2000	Carleton University (Canada) <b>John Ruptash Memorial Fellowship</b> (awarded annually to the most outstanding student in the Faculty of Engineering)	1700	Institutional	Academic	Carleton University, Canada
2000	<b>CITO (Communications and Information Technology Ontario, Canada) Knowledge Network Conference</b> (Ottawa, Canada, Oct. 2000) <b>Student Presenter Award</b>	200	Provincial	Research / communication	Carleton University, Canada
2000	David and Rachel Epstein Foundation (Ottawa, Canada) <b>Epstein Scholarship</b> (awarded annually to 15 most outstanding first-year students enrolled in a graduate program in the Faculty of Graduate Studies and Research at Carleton University)	1000	Institutional	Academic	Carleton University, Canada
1998	<b>Research and teaching assistantship</b>	(unknown exchange rates)	Institutional	Research / academic / leadership	University of Nis, Serbia

1996-1997	<b>IAESTE</b> (The International Association for the Exchange of Students for Technical Experience) <b>internships</b> (2 times, 6 months each)	~ 25000	International	Research / academic / leadership	Hewlett-Packard Company, Germany
1996-1997	Ministry of Science and Technology of Serbia (Yugoslavia) <b>Research Associate Graduate Student Scholarship</b>	(unknown exchange rates)	Provincial (state)	Research / academic	University of Nis, Serbia
1996	<b>Nikola Tesla Foundation</b> (Belgrade, Serbia, Yugoslavia) <b>Youth Creativity Tesla Award</b> (awarded for the outstanding quality of the undergraduate Dipl.Ing. thesis)	(unknown exchange rates)	Provincial (state)	Research	University of Nis, Serbia
1996	<b>University of Nis Best Graduate of the School Year 1995/1996</b>	(unknown exchange rates)	Institutional	Academic	University of Nis, Yugoslavia
1996	<b>Faculty of Electronic Engineering Best Graduate of the Generation 1991/1992</b>	(unknown exchange rates)	Institutional	Academic	University of Nis, Serbia
1996	<b>“Student Who Graduated Before Term”</b> Charter of the Faculty of Electronic Engineering (awarded for graduation 9 months before the graduation date)	(unknown exchange rates)	Institutional	Academic	University of Nis, Serbia
1992-1996	<b>Best Student of the Faculty of Electronic Engineering</b> (five times, after every completed year)	(unknown exchange rates)	Institutional	Academic	University of Nis, Serbia
1995	<b>Best Student Charter of the Nis</b> (Serbia, Yugoslavia) <b>City Assembly Executive Council</b>	(unknown exchange rates)	Regional	Academic	University of Nis, Serbia
1992-1995	Ministry of Science and Technology of Serbia (Yugoslavia) <b>Undergraduate Student Scholarship</b>	(unknown exchange rates)	Provincial (state)	Academic	University of Nis, Serbia
1983-1994	A number of <b>awards from university and school student championships</b> in computer science, electrical engineering, and mathematics	(unknown exchange rates)	Up to federal	Competitive / academic	University of Nis and schools in Nis, Serbia

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## **TEACHING AND MENTORSHIP EXPERIENCE**

### **A) STUDENT SUPERVISION AND OTHER MENTORSHIP EXPERIENCE**

- 2007-pres. University of New South Wales (Sydney, Australia), School of Computer Science and Engineering: **Co-supervisor of 2 Ph.D. students (1 completed, 1 in progress)** working at NICTA (Sydney, Australia): 1) Suronapee Phoomvuthisarn (2008-2011) co-supervisor; together with Dr. Jenny/Yan Liu, Dr. Liming Zhu and Prof. Ross Jeffery); 2) Qinghua Lu (2009-pres. main supervisor; together with Dr. Jacky Wai Keung and Prof. Ross Jeffery). **Temporarily co-supervised 3 additional Ph.D. students:** 1) Abdul Babar (2007; main supervisor; together with Prof. Ross Jeffery and Dr. Mark Staples) – the student formally started his Ph.D. studies at University of New South Wales, but left after only a few months because he got much better scholarship from the University of Technology Sydney, Australia (we continued scientific collaboration without a formal supervisory relationship). 2) Basem Suleiman (2008-2009; main supervisor; together with Prof. Ross Jeffery and Dr. Jenny/Yan Liu) – the student started research collaboration (in 2007) and then Ph.D. studies under my supervision, but later decided to work at SAP Research and change the direction of his Ph.D. research. 3) Nahid Ebrahimi Nejad (2009-2010; main supervisor; together with Dr. Paul Bannerman and Prof. Ross Jeffery) – the student started Ph.D. studies under my supervision, but left for a job in industry.
- 2010-pres. University of Sydney (Sydney, Australia), School of Information Technologies: **Temporarily co-supervised (with Prof. Alan Fekete) 1 Ph.D. student:** 1) Nihar Trivedi (2010-pres.; co-supervisor; together with Prof. Alan Fekete) – the student started his part-time Ph.D. in 2004 under co-supervision of international experts (NICTA employees) who later moved to other jobs overseas, so I accepted the co-supervision of the student and provided advice about research related to performance management of complex distributed systems; due to work-related obligations, the student did not complete his research degree. **Co-supervisor (with Prof. Alan Fekete) of 2 Masters of Information Technology project students:** 1) “Using BMM Business Motivation in Business-Driven IT Management” (Cheng Li, 2011); 2) “Factors in Migration of Enterprise Software to Cloud” (Tingting Yao, 2011). **Co-supervisor (with Prof. Alan Fekete) of 1 Honors thesis student:** 1) “Autonomic Business-Driven IT Management of Cloud Computing Systems” (Dipesh Chauhan, 2011).
- 2007-pres. University of New South Wales (Sydney, Australia), School of Computer Science and Engineering: **Supervisor of 13 undergraduate students (12 completed, 1 in progress)** working on their final undergraduate/Honors theses (Thesis A and/or Thesis B) at NICTA. De facto **co-supervisor** of 2 additional undergraduate students. Supervisor of 1 Thesis A student who did not get a passing mark. The thesis topics and students (only those who passed) were: 1) “Selection of Web Services using Business Value Information” (Ruozhuo Chen, 2007, Thesis A only, de facto co-supervision with Dr. Liming Zhu); 2) “Analysis of Methods Improving IT Support for Business” (Rasangi Pumudu Karunaratne in 2008, Shyam Sunder Iyer in 2008-2009, and Alisa Slomic in 2008 individually worked on different aspects of this thesis topic); 3) “Extending Service-Oriented Middleware for Business-Driven IT Management” (Ao Liu, 2008); 4) “Value-Based Software Engineering of Web Services and Business Processes” (Gina Lau, 2008-2009); 5) “Business-Driven IT Management For Web Services and Business

Processes” (Gareth Maclay Edwards, 2009); 6) “Web Services for Advanced Patent Search and Analysis” (Adam Brimo in 2010, continued by Daniel Dong in 2011); 7) “Software for Advanced Patent Analysis” (Po Ju Chen in 2010, continued by Zi Tian Fang in 2011); 8) “Software Tools for Business-Driven IT Management” (Vern Yao Tee in 2010; also Christopher Carlowatz in 2011-2012 but with a different focus in cloud management); 9) “Monitoring Adaptive Server Applications using Eclipse Test and Performance Tools Platform” (Timothy John Griffiths, 2010, Thesis B only – continued Thesis A supervision by Dr. Jenny/Yan Liu); 10) “Business-Driven IT Management of Web Services, Cloud Computing Systems, and Business Processes” (Ronald Tsang, 2010, de facto co-supervision with Dr. Hiroshi Wada).

- 2000-pres. International: **Informally and intermittently provided professional advice to several undergraduate students, graduate students and post-doctoral fellows** from the University of Sydney (Sydney, Australia), University of Technology Sydney (Sydney, Australia), the University of New South Wales (Sydney, Australia), the University of Victoria (Victoria, Canada), Lakehead University (Thunder Bay, Canada), the University of Western Ontario (London, Canada), Carleton University (Ottawa, Canada), the University of Stuttgart (Stuttgart, Germany), and the University of Nis (Nis, Serbia).
- 2010 NICTA (Sydney, Australia): **Mentored** Dr. Hiroshi Wada on supervision of an undergraduate thesis student (Ronald Tsang) at the School of Computer Science and Engineering of the University of New South Wales (Sydney, Australia).
- 2009-2010 NICTA (Sydney, Australia): **Main supervisor** (together with co-supervisor Dr. Mark Staples) of the UNSW undergraduate student Timothy Siang Seng Ting who worked as a **summer research student** at NICTA on software for advanced patent analysis.
- 2009 NICTA (Sydney, Australia): **Official supervisor** of the UNSW **Masters student** Zifei Gong who volunteered to work part-time at NICTA to obtain work experience and increase his professional knowledge. (He was informally guided and mentored by Ph.D. student Basem Suleiman.) After this volunteering work, the student immediately got a paid job with tasks in the same area of expertise.
- 2008 University of New South Wales (Sydney, Australia): **Represented NICTA** at the 2008 UNSW Vacation & Internship Careers Expo, with the task to explain to undergraduate students searching for summer internships the appeal of research jobs (e.g., “the opportunity to change the world”) and the advantages of summer scholarships with NICTA (e.g., links with industry, preparation for various jobs).
- 2007 NICTA (Sydney, Australia), Empirical Software Engineering Program: **Guided** Abdul Babar and Basem Suleiman in conducting graduate research, as a preparation for Ph.D. studies at the University of New South Wales (Sydney, Australia), School of Computer Science and Engineering. Subsequently, both students successfully enrolled into Ph.D. studies.
- 2006 University of New South Wales (Sydney, Australia), School of Computer Science and Engineering: **Guided** Abdelkarim Erradi (formally supervised by Dr. Piyush Maheshwari) in conducting doctoral research.
- 2006 Lakehead University (Thunder Bay, Canada), Department of Software Engineering: **Managed a team of 2 undergraduate students** (Roger J. Castaldo and Michael A. McKay) working as research assistants on an externally-funded research and software development project.

- 2005-2006 Lakehead University (Thunder Bay, Canada), Department of Software Engineering: **Supervisor or co-supervisor for 5 teams of undergraduate students, 12 students in total**, working on their final undergraduate theses. One team of 2 students was interdisciplinary, so it was co-supervised with a colleague from the Department of Electrical Engineering. Two student teams worked on projects for industrial partners (1 direct involvement and 1 indirect involvement) and 1 team worked on a project for a non-profit organization. The projects and students were: 1) “Ligament International Trading Co. Stock Management Information System” (Hang Yu, Yiding Zhang); 2) “Decision Support Software & Hardware System for a Log Cutting Manufacturing Process” (Tomasz Rybak, Roman Hranyczny – co-supervision with Prof. Dimiter Alexandrov); 3) “Thumbprint Heavy Encryption System – THEFS” (Matthew Anderson, Roger J. Castaldo, Joseph Leroux, Joey Quevillon); 4) “Northern Ontario School of Medicine (NOSM) Standardized Patient Program” (Lindsay Downie, Yin Yin Mon); 5) “An Extended Compilation Tool for an XML Web Services Language” (Han Liu, Piratheepan Pooranampillai).
- 2003-2004 Carleton University (Ottawa, Canada): **Actively participated in the “Thesis Support Group”**.
- 2002-2004 Carleton University (Ottawa, Canada), Department of Systems and Computer Engineering: **Guided** Wei Ma (formally supervised by Prof. Babak Esfandiari) in conducting Masters research (terminated due to a very serious and prolonged illness).
- 2001-2003 Carleton University (Ottawa, Canada), Department of Systems and Computer Engineering: **Guided** Kruti Patel (formally supervised by Prof. Bernard Pagurek) in Masters research (successfully completed) and part-time contract work.

## **B) COURSE DEVELOPMENT AND TEACHING EXPERIENCE**

- 2009 University of New South Wales (Sydney, Australia), Graduate School of Engineering: **Presented** the lecture “**Evaluation – The Crucial Part of Research (and Your Ph.D. Dissertation, too)**” as a **guest lecturer** in the graduate course “**Engineering Postgraduate Research Essentials**”. A version of this lecture was also presented to other graduate students and researchers at NICTA in Sydney, Australia.
- 2009 University of New South Wales (Sydney, Australia), School of Computer Science and Engineering: **Lecturer/supervisor** for the readings (directed studies) course “**Readings in Computer Science and Engineering**” for Ph.D. student Qinghua Lu. The topic of the readings course was “Recent Trends in Distributed Systems Management Research” and covered the main distributed systems management concepts and standards, achievements on management of service-oriented systems, issues in management of context in service-oriented systems, the vision of autonomic computing and self-management, and overview of business-driven IT management and related areas that try to achieve better business-IT alignment. Defined the course and the general structure of the reading material. Guided the student to perform independent study, search for additional papers, critically analyze the literature, and identify opportunities for future research.
- 2008 University of New South Wales (Sydney, Australia), School of Computer Science and Engineering: **Lecturer in charge** for a proposed update to the course “**Advanced Topics in Software Engineering**” – undergraduate/graduate course.

- Lead a team of lecturers in the total re-design of this course with the goal to introduce students to software engineering challenges present in business process modeling, execution, and management, as well as a range of modern software technologies developed to address these challenges. Unfortunately, the course was cancelled due to external reasons.
- 2006-2008 University of New South Wales (Sydney, Australia), School of Computer Science and Engineering: **Presented** (2 times in different years, with some modifications) the lecture “**Contract-Based QoS Monitoring and Control of XML Web Services**” (prepared in collaboration with Patrick C. K. Hung) as a **guest lecturer** in the undergraduate/graduate course “**E-Commerce Systems Engineering**”. A version of this lecture was also presented to the Service-Oriented Computing research group at the same university. This lecture was an adapted and shorter version of the IEEE CEC/EEE 2006 tutorial.
- 2006 Lakehead University (Thunder Bay, Canada), Department of Software Engineering: **Course instructor** for “**Software Design and Testing**” – 3rd year course on algorithm design (e.g., sorting using design-and-conquer), data structures, as well as software quality control methodology (e.g., inspections and testing). Prepared and delivered lectures and labs. Created new teaching materials, such as MS PowerPoint presentations of all lectures on software design. Designed and marked assignments, software development projects, midterms, and final exams. Accommodated students with disabilities. Used WebCT course management software.
- 2006 Lakehead University (Thunder Bay, Canada), Department of Software Engineering: **Course instructor** for “**Performance Analysis of Software**” – 3rd year advanced course on analytical performance studies of software during design stages (using extended UML diagrams and queuing networks), as well other approaches to software performance evaluation (measurements, simulations). Prepared and delivered lectures, tutorials, and labs. Created new teaching materials, such as software projects. Designed and marked assignments, projects, midterms, and final exams. Accommodated students with disabilities. Used WebCT course management software.
- 2005 Lakehead University (Thunder Bay, Canada), Department of Software Engineering: **Course instructor** for “**Data Management and Information Systems**” – 2nd year course on relational databases, ER (entity-relationship) diagrams, and SQL (Structured Query Language). Prepared and delivering lectures, tutorials, and labs. Designed and marked assignments, projects, midterms, and final exams. Accommodated students with disabilities. Dealt with a case of academic dishonesty. Used WebCT course management software.
- 2005 Lakehead University (Thunder Bay, Canada), Department of Software Engineering: **Course instructor** for “**Signal Processing for Software Engineers**” – 4th year course on introduction to signal processing, e.g., applications of Fourier series and transforms. Significantly re-designed parts of the course to increase software components. Prepared and delivered lectures and labs. Created new teaching materials, such as MS PowerPoint presentations of all lectures, a bank of exam questions, and software-related course projects. Designed and marked assignments, software development projects, midterms, and final exams. Supervised a teaching assistant. Used WebCT course management software. The two best student course projects were merged and published as a

- peer-reviewed paper. This is a course that I never took as a student, so I had to learn the material myself. The task was very challenging, but I succeeded!
- 2005 University of Western Ontario (London, Canada), Department of Computer Science: Presented the 4-hour beginner-level **tutorial “Comprehensive Description and Management of XML Web Services”** (prepared in collaboration with Patrick C. K. Hung), a long version of the tutorials presented at WTAS 2005 and ICWS/SCC 2005.
- 2005 University of Western Ontario (London, Canada), Department of Computer Science: **Presented** the lecture **“Introduction to Web Services”** as a **guest lecturer** in the undergraduate/graduate course **“Distributed and Parallel Computing”**.
- 2003 Carleton University (Ottawa, Canada), Department of Systems and Computer Engineering: **Presented** the lecture **“An Informal Introduction to Web Services”** as a **guest lecturer** in the graduate course **“Network Computing”**.
- 2001 Carleton University (Ottawa, Canada), Department of Systems and Computer Engineering: **Teaching assistant** for **“Communications Network Management”** – graduate course on network management principles and technologies including SNMP (Simple Network Management Protocol), CMIP (Common Management Information Protocol), and GDMO (Guidelines for the Definition of Managed Objects). Prepared several lectures on advanced topics. Marked assignments and a midterm exam.
- 2000 Carleton University (Ottawa, Canada), Department of Systems and Computer Engineering: **Teaching assistant** for **“Development of Real-Time and Distributed Software with Reusable Components”** – graduate course on requirements analysis and design of real-time and distributed systems using UML (Unified Modeling Language) and design patterns. Developed and marked assignments and the final project.
- 1999-2000 Carleton University (Ottawa, Canada), Department of Systems and Computer Engineering: **Teaching assistant** for **“Program Design and Construction”** – 2nd year course on Java and programming data structures using Java. Assisted students in programming assignments. Marked assignments, midterm exams, and a final exam.
- 1997-1998 University of Nis (Serbia, Yugoslavia), Faculty of Electronic Engineering, Department of Computer Science: **Teaching assistant** for **“Distributed Processing”** – 4th year course on computer networks, networking standards and protocols, and development of distributed applications. Lectured practical aspects of distributed processing. Developed and marked computer lab assignments and written exams containing practical and programming questions. Re-designed parts of the course.
- 1996-1998 University of Nis (Serbia, Yugoslavia), Faculty of Electronic Engineering, Department of Computer Science: **Teaching assistant** for **“Programming”** – 2nd year course on introduction to programming. Prepared and delivered tutorial lectures on introductory programming. Developed and marked written exams containing programming questions.
- 1997 University of Nis (Serbia, Yugoslavia), Faculty of Electronic Engineering, Department of Computer Science: **Teaching assistant** for **“Artificial Intelligence”** – 5th year course on artificial intelligence and programming in Scheme. Marked programming assignments.

### **C) PH.D. DISSERTATION EXAMINATION AND OTHER ASSESSMENT EXPERIENCE**

- 2008-pres. Different universities in Australia: **Anonymous examiner** of 1 Ph.D. dissertation and 1 M.Sc. thesis (from 2 different Australian universities). Proposed, but not selected, anonymous examiner of 3 other Ph.D. dissertations from different Australian universities. This task involves reading, marking, and commenting on the submitted Ph.D. dissertations or M.Sc. thesis, without an oral examination. Since examiner details remain anonymous to the degree candidates, the details of are not listed here, but are available, as a separate document, upon request.
- 2006-pres. University of New South Wales (Sydney, Australia), School of Computer Science and Engineering: **Annual progress review panel member** for 8 UNSW doctoral students (Yinan Zhai, Ngoc Bao Bui, Nazrina Khurshid, Xiwei Xu, John Brondum, Shukor Sanim Bin Mohd Fauzi, Gayan Kanakaratna, Liang Zhao) at NICTA, 5 UNSW doctoral students not associated with NICTA (Julien Ponge, Woralak Kongdenfha, Hamid Motahari, Seung Hwan Ryu, Dac Dat Hoang), and 1 UNSW research masters student not associated with NICTA (Seung Hwan Ryu). For most of these students, participated in several annual review panels and tracked progress over time. For students endorsed (sponsored) by NICTA also participated in bi-annual NICTA progress reviews.
- 2006-pres. University of New South Wales (Sydney, Australia), School of Computer Science and Engineering: **Assessor** of Masters-by-coursework research projects (Jun Chen), undergraduate theses (Conrad Yuk Kwan Ng), and reading course research reports (John Brondum).
- 2007-2008 NICTA (Sydney, Australia): **Organized and chaired the ESE (Empirical Software Engineering) Graduate Student Conference** in August 2007 and February/March 2008.
- 2007-2008 NICTA (Sydney, Australia): **Member of the Judging Panel** for the NICTA Summer Scholar Seminar at the ATP (Australian Technology Park) laboratory in February 2007 and February 2008.
- 2005 University of Western Ontario (London, Canada), Department of Computer Science: **Judge** at the 2005 University of Western Ontario Research in Computer Science (UWORCS) conference for graduate students.

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### **TEACHING STATEMENT**

Available, upon request, as a **separate document**.

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## **PROFESSIONAL SERVICE EXPERIENCE**

### **A) EDITORSHIP OF INTERNATIONAL JOURNALS OR SPECIAL ISSUES**

- 2009-pres. **Associate Editor** for the International Journal of Systems and Service-Oriented Engineering (IJSSOE, published by IGI Global, USA).
- 2008-2010 **Handling Editor** (and occasionally also **Reviewer**) for review of some papers submitted to the Service Oriented Computing and Applications (SOCA, published by Springer, UK).
- 2009-2010 **Co-editor** (together with Karl Michael Goeschka and Helen Hye-young Paik) of the International Journal of Systems and Service-Oriented Engineering (IJSSOE, published by IGI Global, USA) special issue on Engineering Middleware for Service-Oriented Computing, Vol. 1, No. 3 (July-Sep. 2010), IGI Global.
- 2005-2007 **Co-editor** (together with Aad van Moorsel and Raymond Wong) of the International Journal of Business Process Integration and Management (IJBPIIM, published by Inderscience, USA) special issue on Middleware for Web Services, Vol. 2, No. 3 (July-Sep. 2007), Inderscience.

### **B) MEMBERSHIP IN EDITORIAL BOARDS OF INTERNATIONAL JOURNALS**

- 2005-pres. **Editorial Board Member** (also **Reviewer** for some papers) for the International Journal of Business Process Integration and Management (IJBPIIM, published by Inderscience, USA).

### **C) INTERNATIONAL CONFERENCE/WORKSHOP ORGANIZATION AND/OR EDITORSHIP OF CONFERENCE/WORKSHOP PROCEEDINGS**

- 2011-2012 **Member of the Organizing Committee and proceedings co-editor** (together with Patricia Lago, Grace A. Lewis, and Andreas Metzger) of PESOS 2012 (The 4th International Workshop on Principles of Engineering Service-Oriented Systems, June 4, 2012; at the 34th International Conference on Software Engineering – ICSE 2012; Zurich, Switzerland, June 2-9, 2012).
- 2011 **Co-chair and proceedings co-editor** (together with Karl Michael Goeschka and Schahram Dustdar) of MW4SOC 2011 (Middleware for Service Oriented Computing 2011 workshop, December 12, 2011; at the ACM/IFIP/USENIX 12th International Middleware Conference – Middleware 2011; Lisbon, Portugal, December 12-16, 2011).
- 2011 **Co-chair and proceedings co-editor** (together with Andrew Farrell, Karl Michael Goeschka, Sebastian Hudert, Hanan Lutfiyya, and Michael Parkin) of C4E 2011 (International Workshop on Clouds for Enterprises, September 5, 2011; at the 13th IEEE Conference on Commerce and Enterprise Computing – CEC 2011; Luxembourg, Luxembourg, September 5-9, 2011).
- 2010 **Co-chair and proceedings co-editor** (together with Karl Michael Goeschka, Schahram Dustdar, Frank Leymann, Helen Hye-young Paik, and Lorenz Frohofer) of MW4SOC 2010 (Middleware for Service Oriented Computing 2010 workshop, November 29, 2010; at the ACM/IFIP/USENIX 11th International Middleware Conference – Middleware 2010; Bangalore/Bengaluru, India, November 29 – December 3, 2010). Among other duties, prepared and chaired the discussion session “Middleware for Clouds vs. Middleware for Other SOC: What Is Different and What Is Not?”.
- 2008-2009 **Workshops and Panels Chair and workshop proceedings editor (and member of the Program Committee)** of EDOC 2009 (The 13th IEEE International EDOC

- Conference – “The Enterprise Computing Conference”; Auckland, New Zealand, September 1-4, 2009).
- 2007-2008 **Local Organization Co-chair and Session Chair** of ICSOC 2008 (The Sixth International Conference on Service-Oriented Computing; Sydney, Australia, December 1-4, 2008).
- 2008 **Co-chair and proceedings co-editor** (together with Karl Michael Goeschka, Schahram Dustdar, and Frank Leymann) of MW4SOC 2008 (Middleware for Service Oriented Computing 2008 workshop, December 1, 2008; at the ACM/IFIP/USENIX 9th International Middleware Conference – Middleware 2008; Leuven, Belgium, November 30 – December 4, 2008).
- 2008 **Co-chair and proceedings co-editor** (together with Karl Michael Goeschka, Aad van Moorsel, and Raymond Wong) of MWS 2008 (Middleware for Web Services 2008 workshop, September 16, 2008; at the 12th International IEEE EDOC Conference; Munich, Germany, September 15-19, 2008).
- 2007-2008 **Standards Panel Discussion Chair (and Member of the Program Committee)** of EDOC 2008 (The 12<sup>th</sup> IEEE International EDOC Conference – “The Enterprise Computing Conference”; Munich, Germany, September 15-19, 2008).
- 2007 **Co-chair and proceedings co-editor** (together with Karl Michael Goeschka, Schahram Dustdar, and Frank Leymann) of MW4SOC 2007 (Middleware for Service Oriented Computing 2007 workshop, November 26, 2007; at the ACM/IFIP/USENIX 8th International Middleware Conference – Middleware 2007; Newport Beach, California, USA, November 26-30, 2007).
- 2007 **Co-chair and proceedings co-editor** (together with Karl Michael Goeschka, Aad van Moorsel, and Raymond Wong) of MWS 2007 (Middleware for Web Services 2007 workshop, October 16, 2007; at the 11th International IEEE EDOC Conference; Annapolis, Maryland, USA, October 15-19, 2007). Among other duties, prepared and chaired the discussion session “Impact of Various Execution Environments on Middleware for Web Services”.
- 2006 **Co-chair and proceedings co-editor** (together with Aad van Moorsel and Raymond Wong) of MWS 2006 (Middleware for Web Services 2006 workshop, October 16, 2006; at the 10<sup>th</sup> International IEEE EDOC Conference; Hong Kong, China, October 16-20, 2006).
- 2005-2006 **Program co-chair** of ONLINE 2006 (Online Communications, Collaborative Systems, and Social Networks track at the International Conference on Internet and Web Applications and Services – ICIW'06 ; Guadeloupe, French Caribbean, February 23-25, 2006)
- 2005 **Co-chair and proceedings co-editor** (together with Aad van Moorsel and Raymond Wong) of MWS 2005 (Middleware for Web Services 2005 workshop, September 19, 2005; at the 9<sup>th</sup> International IEEE EDOC Conference; Enschede, The Netherlands, September 19-23, 2005).

#### **D) MEMBERSHIP IN PROGRAM COMMITTEES OF INTERNATIONAL CONFERENCES/WORKSHOPS**

- 2011-2012 **Member of the Program Committee** of EDOC 2012 (The 16th IEEE International EDOC Conference – “The Enterprise Computing Conference”; Beijing, China, September 10-14, 2012).

- 2011-2012 **Member of the Program Committee** of CEC 2012 (The 14th IEEE Conference on Commerce and Enterprise Computing; Hangzhou, China, September 9-11, 2012).
- 2011-2012 **Member of the Program Committee** of DAIS 2012 (The 12th IFIP International Conference on Distributed Applications and Interoperable Systems held as part of the 7th International Federated Conference on Distributed Computing Techniques - DisCoTec 2012; Stockholm, Sweden, June 13-16, 2012).
- 2011-2012 **Member of the Technical Program Committee** of PCOMSC 2012 (The Workshop on Policies for Configuring and Operating Management Services in a Cloud at the 12th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing – CCGrid 2012; Ottawa, Canada, May 13-16, 2012).
- 2011-2012 **Member of the Technical Program Committee** of BDIM 2012 (The 7th IFIP/IEEE Workshop on Business Driven IT Management at the 13th IEEE/IFIP Network Operations and Management Symposium – NOMS 2012; Maui, Hawaii, USA, April 16-20, 2012).
- 2011 **Member of the Program Committee** of CGC 2011 (The International Conference on Cloud and Green Computing; Sydney, Australia, December 12-14, 2011).
- 2011 **Member of the Program Committee** of USECA 2011 (The 1st Workshop on User-focused Service Engineering, Consumption and Aggregation at the 12th International Conference on Web Information System Engineering – WISE 2011; Sydney, Australia, October 10-14, 2011).
- 2010-2011 **Member of the Program Committee** of CEC 2011 (The 13th IEEE Conference on Commerce and Enterprise Computing; Luxembourg, Luxembourg, September 5-7, 2011).
- 2011 **Member of the Program Committee** of EVL-BP 2011 (The 4th International Workshop on Evolutionary Business Processes at the 15th IEEE International EDOC Conference – “The Enterprise Computing Conference” – EDOC 2011; Helsinki, Finland, August 29, 2011).
- 2010-2011 **Member of the Program Committee** of EDOC 2011 (The 15th IEEE International EDOC Conference – “The Enterprise Computing Conference”; Helsinki, Finland, August 29 – September 2, 2011).
- 2010-2011 **Member of the Program Committee** of SERVICES 2011 (The 7th IEEE World Congress on Services; Washington DC, USA, July 5-10, 2011).
- 2010-2011 **Member of the Technical Program Committee** of the “Management of Service Oriented Architectures (ManSOA)” special track of IM 2011 (The 12th IFIP/IEEE International Symposium on Integrated Network Management; Dublin, Ireland, May 23-27, 2011).
- 2010-2011 **Member of the Technical Program Committee** of BDIM 2011 (The 6th IFIP/IEEE Workshop on Business Driven IT Management at the 12th IFIP/IEEE International Symposium on Integrated Network Management – IM 2011; Dublin, Ireland, May 23-27, 2011).
- 2010 **Member of the Program Committee** of CNSM 2010 (The 6th IEEE/IFIP International Conference on Network and Service Management, previously known as MANWEEK; Niagara Falls, Canada, October 25-29, 2010).
- 2009-2010 **Member of the Program Committee** of EDOC 2010 (The 14th IEEE International EDOC Conference – “The Enterprise Computing Conference”; Vitoria, Brazil, October 25-29, 2010).

- 2009-2010 **Member of the Technical Program Committee** of BDIM 2010 (The 5th IFIP/IEEE Workshop on Business Driven IT Management at the 12th IEEE/IFIP Network Operations & Management Symposium – NOMS 2010; Osaka, Japan, April 19, 2010).
- 2009 **Member of the Program Committee** of the “Service Oriented E-Commerce and Business Processes” track of EC-Web '09 (The 10th International Conference on Electronic Commerce and Web Technologies; Linz, Austria, August 31–September 4, 2009).
- 2008-2009 **Member of the Program Committee** of CEC 2009 (The 11th IEEE Conference on Commerce and Enterprise Computing; Vienna, Austria, July 20-23, 2009).
- 2008-2009 **Member of the Program Committee** of ICGSE 2009 (The 4th IEEE International Conference on Global Software Engineering; Limerick, Ireland, July 13-16, 2009).
- 2008-2009 **Member of the Program Committee** of ICWS 2009 (The IEEE 7th International Conference on Web Services; Los Angeles, USA, July 6-10, 2009).
- 2008-2009 **Member of the Technical Program Committee** of BDIM 2009 (The 4th IFIP/IEEE Workshop on Business Driven IT Management at the 11th IFIP/IEEE International Symposium on Integrated Management – IM 2009; New York, USA, June 1, 2009).
- 2008-2009 **Member of the Program Committee** of the Service-Oriented Architecture and Applications track of AINA 2009 (The 23rd IEEE International Conference on Advanced Information Networking and Applications, Bradford, UK, May 26-29 2009).
- 2008-2009 **Member of the Program Committee** of PESOS 2009 (Workshop on Principles of Engineering Service Oriented Systems at the 31st International Conference on Software Engineering – ICSE 2009; Vancouver, Canada, May 18-19, 2009).
- 2008-2009 **Member of the Program Committee** of ABIS 2009 (The 3rd International Conference on Adaptive Business Information Systems; Leipzig, Germany, March 23-25, 2009).
- 2008 **Member of the Program Committee** of SEASS 2008 (The 2nd IEEE International Workshop on Software Engineering for Adaptive Software Systems at the 2008 International Conference on Web Services – ICWS 2008; Beijing, China, September 23-26, 2008).
- 2007-2008 **Member of the Program Committee** of CEC/EEE 2008 (The 10th IEEE Conference on E-Commerce Technology and 5<sup>th</sup> IEEE Conference on Enterprise Computing, E-Commerce and E-Services; Washington, USA, July 21-24, 2008).
- 2007-2008 **Member of the Program Committee** of SLAECE 2008 (International Workshop on Social and Legal Aspects under Emerging Computing Environments) at ICIW 2008 (The Third International Conference on Internet and Web Applications and Services; Athens, Greece, June 8-13, 2008).
- 2007-2008 **Member of the Program Committee** of BDIM 2008 (The 3rd IEEE/IFIP Workshop on Business Driven IT Management at the 11th IEEE/IFIP Network Operations and Management Symposium – NOMS 2008; Salvador, Brazil, April 7, 2008).
- 2007-2008 **Member of the Program Committee** of CEA'08 (The 2nd WSEAS International Conference on Computer Engineering and Applications; Acapulco, Mexico, January 27-29, 2008).

- 2006-2007 **Member of the Program Committee** of DOA'07 (The 9th International Symposium on Distributed Objects, Middleware, and Applications; Vilamoura, Portugal, November 25-30, 2007).
- 2006-2007 **Member of the Program Committee** of EDOC 2007 (The 11<sup>th</sup> IEEE International EDOC Conference – “The Enterprise Computing Conference”; Annapolis, USA, October 15-19, 2007).
- 2006-2007 **Member of the Program Committee** of the Service Intelligence and Service Science track of ICMLC 2007 (International Conference on Machine Learning and Cybernetics; Hong Kong, China, August 19-22, 2007).
- 2006-2007 **Member of the Program Committee** of ICE-B 2007 (International Conference on e-Business; Barcelona, Spain, July 28-31, 2007).
- 2007 **Member of the Program Committee** of SEASS 2007 (The First IEEE International Workshop on Software Engineering for Adaptive Software Systems at the 31st Annual International Computer Software and Applications Conference – COMPSAC 2007; Beijing, China, July 24-27, 2007).
- 2006-2007 **Member of the Program Committee** of CEC/EEE 2007 (The 9th IEEE Conference on E-Commerce Technology and 4<sup>th</sup> IEEE Conference on Enterprise Computing, E-Commerce and E-Services; Tokyo, Japan, July 23-26, 2007).
- 2006-2007 **Member of the Program Committee** of BDIM 2007 (The 2nd IEEE/IFIP Workshop on Business Driven IT Management at the 10th IFIP/IEEE Symposium on Integrated Management – IM 2007; Munich, Germany, May 21, 2007).
- 2006-2007 **Member of the Program Committee** of the Web Technologies (WT) track of SAC 2007 (The 22nd ACM Symposium on Applied Computing; Seoul, Korea, March 11-15, 2007).
- 2006 **Member of the Program Committee** of the Web-based Information Technologies and Distributed Systems track of SITIS 2006 (The IEEE International Conference On Signal-Image Technology & Internet-Based Systems; Hammamet, Tunisia, December 17-21, 2006).
- 2006 **Member of the Program Committee** of CoSS2006 (Workshop on Conceptual Modeling of Service-Oriented Software Systems at the 25th International Conference on Conceptual Modeling – ER 2006; Tucson, USA, November 6-9, 2006).
- 2006 **Member of the Program Committee** of ICEBE 2006 (The 2006 IEEE International Conference on e-Business Engineering; Shanghai, China, October 24-26, 2006).
- 2005-2006 **Member of the Program Committee** of EDOC 2006 (The 10th IEEE International EDOC Conference – “The Enterprise Computing Conference”; Hong Kong, China, October 16-20, 2006).
- 2006 **Member of the Program Committee** of DPM '06 (The 1st International Workshop on Dynamic Process Management at the 4th International Conference on Business Process Management – BPM 2006, Vienna, Austria, September 4, 2006).
- 2005-2006 **Member of the International Program Committee** of WTAS 2006 (The IASTED International Conference on Web Technologies, Applications, and Services; Calgary, Canada, July 17-19, 2006).
- 2005-2006 **Member of the Program Committee** of CEC/EEE 2006 (The 8th IEEE Conference on E-Commerce Technology and 3rd IEEE Conference on Enterprise

- Computing, E-Commerce and E-Services; San Francisco, USA, June 26-29, 2006).
- 2005-2006 **Member of the Program Committee** of BSN '06 – SoS4CO '06 (Joint 2nd International Workshop on Business Service Networks and 2nd International Workshop on Service oriented Solutions for Cooperative Organizations at the 8<sup>th</sup> IEEE Conference on E-Commerce Technology and 3rd IEEE Conference on Enterprise Computing, E-Commerce and E-Services – CEC/EEE 2006, San Francisco, USA, June 26, 2006).
- 2005-2006 **Member of the Program Committee** of the Artificial Intelligence track of CCECE/CCGEI 2006 (Canadian Conference on Electrical and Computer Engineering; Ottawa, Canada, May 7-10, 2006).
- 2005-2006 **Member of the Program Committee** of AINA 2006 (IEEE 20th International Conference on Advanced Information Networking and Applications; Vienna, Austria, April 18-20, 2006).
- 2005-2006 **Member of the Program Committee** of BDIM 2006 (The 1st IEEE/IFIP Workshop on Business Driven IT Management at the 2006 IEEE/IFIP Network Operations & Management Symposium – NOMS; Vancouver, Canada, April 7, 2006).
- 2005-2006 **Member of the Program Committee** of WEBSA 2006 (Web Service-Based Systems and Applications track at the International Conference on Internet and Web Applications and Services – ICIW'06 ; Guadeloupe, French Caribbean, February 23-25, 2006)
- 2005-2006 **Member of the Program Committee** of XRA 2006 (International Workshop on XML Research and Applications; Harbin, China, January 16, 2006).
- 2005 **Member of the Program Committee** of SOBPI'05 (The First International Workshop on Service-Oriented Business Processes Integration, held at the 3rd International Conference on Service-Oriented Computing – ICSOC 2005, Amsterdam, The Netherlands, December 12, 2005).
- 2005 **Member of the Review Committee** of the HICSS-39 (Hawaii International Conference on System Sciences; Kauai, USA, January 4-7, 2006) mini-track Contract Management and Decisions Support in Services Science.
- 2005 **Member of the Program Committee** of DWP 2005 (International Workshop on Dynamic Web Processes, held at the 3<sup>rd</sup> International Conference on Service-Oriented Computing – ICSOC 2005, Amsterdam, The Netherlands, December 12, 2005).
- 2005 **Member of the International Program Committee** of WTAS 2005 (The IASTED International Conference on Web Technologies, Applications, and Services; Calgary, Canada, July 4-6, 2005).
- 2005 **Member of the Program Committee** of the Special Track on Service Provisioning Strategies at SCC 2005 (The IEEE Services Computing Conference 2005; Orlando, USA, July 11-15, 2005).
- 2004-2005 **Member of the International Program Committee** of ACIT 2005 (The Second IASTED International Multi-Conference on Automation, Control and Information Technology; Novosibirsk, Russia, June 20-24, 2005).
- 2004-2005 **Member of the Steering Program Committee** of BSN 2005 (The IEEE EEE05 International Workshop on Business Services Networks; Hong Kong, China, March 29, 2005).

- 2004-2005 **Member of the Program Committee** of IEEE-05 (The 2005 IEEE International Conference on e-Technology, e-Commerce, and e-Service; Hong Kong, China, March 29 – April 1, 2005).
- 2003 **Member of the Program Committee** of the OOPSLA 2003 (The 18th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications) Workshop on Web services and Service-oriented Architectures: Best-practices and Patterns (Anaheim, USA, October 27, 2003).
- 2001-2002 **Member of the Program Committee** of WOOBS'02 (Workshop on Object-Oriented Business Solutions; Poznan, Poland, April 24, 2002).

#### **E) REVIEW FOR INTERNATIONAL JOURNALS**

- 2011 **Reviewer** for the IEEE Software special issue on Software Engineering for Cloud Computing.
- 2011 **Reviewer** for Service Oriented Computing and Applications (SOCA, published by Springer, UK).
- 2010-11 **Reviewer** for the journal Software: Practice and Experience (published by John Wiley & Sons, USA).
- 2007-2011 **Reviewer** for the IEEE Transactions on Software Engineering.
- 2007-2010 **Reviewer** for the ACM Transactions on Web (TWeb), including the special issue on Service-Oriented Computing.
- 2010 **Reviewer** for the IEEE Transactions on Services Computing (TSC) special issue on Enforcement and Management in Services Computing.
- 2008 **Reviewer** for the Journal of Network and Computer Applications (JNCA, published by Elsevier, The Netherlands).
- 2004-2008 **Reviewer** for the IEEE Communications Magazine.
- 2006-2007 **Reviewer** for the ACM Transactions on Internet Technology (TOIT) regular issues and special issue on Middleware for Service-Oriented Computing.
- 2006-2007 **Reviewer** for Information Systems Frontiers (ISF, published by Springer, Germany) special issue with the best EDOC 2006 papers.
- 2006-2007 **Reviewer** for the IEEE E-Transactions on Network and Service Management (ETSNM) special issue on Self-Managed Networks, Systems and Services.
- 2006 **Reviewer** for the Distributed and Parallel Databases Journal (DPDB, published by Springer, The Netherlands) special issue on Context-Aware Web Services.
- 2005-2006 **Reviewer** for the International Journal of Cooperative Information Systems (IJCIS, published by World Scientific, USA) special issue with the best EDOC 2005 papers.
- 2005 **Reviewer** for the Electronic Commerce Research and Applications (ECRA, published by Elsevier, The Netherlands) special issue on Intelligence in e-Applications.
- 2003 **Reviewer** for the IEEE Transactions on Knowledge and Data Engineering.
- 2001 **Reviewer** for the International Journal of Computing and Informatics – Informatica (published by the Slovene Society Informatika, Ljubljana, Slovenia) special issue on Component Based Software Development.

#### **F) REVIEW FOR INTERNATIONAL CONFERENCES/WORKSHOPS**

- 2010 **Reviewer** for CCGrid 2010 (The 10th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing – CCGrid 2010; Melbourne, Australia, May 17-20, 2010).

- 2007 **Reviewer** for APSEC 2007 (The 14th Asia-Pacific Software Engineering Conference; Nagoya, Japan, December 3-7, 2007).
- 2007 **Reviewer** for the Software and Knowledge Engineering track of PACIS 2007 (The 11th Pacific Asia Conference on Information Systems; Auckland, New Zealand, July 3-6, 2007).
- 2006-2007 **Reviewer** for ICIW 2007 (The Second International Conference on Internet and Web Applications and Services; Mauritius, May 13-19, 2007).
- 2006 **Reviewer** for APCCM 2007 (The Fourth Asia-Pacific Conference on Conceptual Modelling; Ballarat, Australia, January 30-February 2, 2007).
- 2006 **Reviewer** for ICSOC 2006 (The 4th International Conference on Service Oriented Computing; Chicago, USA, December 4-7, 2006).
- 2005-2006 **Reviewer** for ICSE 2006 (The 28th International Conference on Software Engineering; Shanghai, China, May 20-28, 2006).
- 2005 **Reviewer** for TELSIS'05 (The 7th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services; Nis, Serbia and Montenegro, September 28-30, 2005).
- 2004 **Reviewer** for ICC 2005 (The IEEE International Conference on Communications 2005; Seoul, Republic of Korea, May 16-20, 2005).
- 2004 **Reviewer** for the IEEE Globecom 2004 conference (Dallas, USA, Nov. 29 – Dec. 3, 2004).
- 2003 **Reviewer** for DSOM 2003 (The 14th IFIP/IEEE Workshop on Distributed Systems Operations and Management; Heidelberg, Germany, October 20-22, 2003).

#### **G) OTHER PROFESSIONAL SERVICE**

- 2006-pres. **External reviewer** of grant applications submitted to the Natural Sciences and Engineering Research Council of Canada (NSERC, Canada).
- 2010-2012 **Editorial Advisory Board Member** for the book Kajan, E., Dorloff, F.-D., Bedini, I. (eds.) "Handbook on Research on E-Business Standards and Protocols: Documents, Data and Advanced Web Technologies", IGI Global, 2012.
- 2009-2011 **Editorial Advisory Board Member** for the book Kajan, E. (ed.) "Electronic Business Interoperability: Concepts, Opportunities, and Challenges", IGI Global, 2011.
- 2009 Invited to serve as an **external reviewer** of grant applications submitted to the Netherlands Organisation for Scientific Research (NWO, The Netherlands).
- 2008 Member of the **Open Forum Survey (Strategy & Direction) Working Group** of NICTA (Australia).
- 2007 **Member of the Chapter Committee** of the IEEE Computer Society New South Wales Chapter (Australia).
- 2007-2008 **Member of the Editorial Panel** for the book Khan, K.M. (ed.) "Managing Web Service Quality: Measuring Outcomes and Effectiveness", Information Science Reference (IGI Global), 2008.
- 2005-2006 **Observer in the OASIS** (The Organization for Advancement of Structured Information Standards) **Web Services Quality Model (WSQM) Technical Committee**.
- 2005-2006 **Observer in the OASIS** (The Organization for Advancement of Structured Information Standards) **Web Services Distributed Management (WSDM) Technical Committee**.

2002-2007 **Sponsor** for ACM (Association for Computing Machinery) student memberships awarded to the best graduate and undergraduate students of computer science and engineering at the Faculty of Engineering, the University of Nis (Nis, Serbia, Yugoslavia).

1995-1997 **Editor** of the scientific column in ELEF - Faculty of Electronic Engineering (University of Nis, Nis, Serbia, Yugoslavia) magazine.

1995-1996 **Editor** of Naucni podmladak (Scientific Youth) - University of Nis (Nis, Serbia, Yugoslavia) student scientific journal; Volume for Mathematics, Natural Sciences, and Engineering.

1993-1996 **Member of the Local Committee** of IAESTE (The International Association for the Exchange of Students for Technical Experience) at the University of Nis, Serbia, Yugoslavia. Main duties: finding internships for foreign science and engineering students in Nis industry and organizing the stay of the exchanged students in Nis. Participated in additional activities, such as organization of events and fund raising.

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## **PROFESSIONAL LICENSING/CERTIFICATION**

Applied to the Association of Professional Engineers of Ontario – PEO (Canada) for registration as a licensed **Professional Engineer (P.Eng.)** in Ontario, Canada. Educational qualifications were accepted. In April 2006, passed the **Professional Practice Exam – PPE** (both Part A: Ethics and Part B: Law) necessary for licensing. Professional experience is currently being assessed by the PEO.

Eligible for membership in the Australian Computer Society (ACS) – the ACS assessed computing education and experience as suitable for migration purposes.

Eligible for certification as an Information Systems Professional of Canada (I.S.P.) by the Canadian Information Processing Society (CIPS).

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## **COMPUTING KNOWLEDGE AND EXPERIENCE – DETAILED LIST**

**(This detailed list is primarily intended for search engines, not for reading by humans.)**

**Distributed and network computing:** SOA (Service-Oriented Architecture). Cloud computing. Amazon Elastic Compute Cloud (EC2). Web Service technologies. XML (Extensible Markup Language). XML Schema. WSDL (Web Services Description Language). Business process management. WS-BPEL (Web Services Business Process Execution Language). UDDI (Universal Description, Discovery and Integration). SOAP. REST (REpresentational State Transfer). Apache Axis. Apache Tomcat. Microsoft .NET. Windows Workflow Foundation. Windows Communication Foundation. Extensible Application Markup Language (XAML). Pervasive/ubiquitous computing. Embedded computing. Mobile computing. Context management. Peer-to-peer (P2P) computing. e-Utilities. Grid computing. OGSA (Open Grid Services Architecture). Mobile agents. Semantic Web. OWL-S (Object Web Language – Services). WSMO (Web Service Modeling Ontology). Java technology (including Java 2 Enterprise Edition – J2EE and Java 2 Micro Edition – J2ME). Enterprise JavaBeans (EJB). Jini. HTML (HyperText Markup Language). CORBA (Common Object Request Broker Architecture). Iona Orbix. Client-server computing. Sockets. Pipes. TCP/IP (Transmission Control Protocol/ Internet Protocol) protocols. HTTP (HyperText Transport Protocol). Electronic (e-) and mobile (m-) business applications.

**Management of distributed systems, software, services, and networks:** BDIM (Business-Driven IT Management). Autonomic computing. ITIL (Information Technology Infrastructure Library) v3. WSLA (Web Service Level Agreement). WS-Policy. WS-Agreement. WSDM (Web Services Distributed Management). WS-Manageability. Common Information Model (CIM). WBEM (Web-Based Enterprise Management). SNMP (Simple Network Management Protocol). CMIP (Common Management Information Protocol). GDMO (Guidelines for the Definition of Managed Objects). Reconfigurable computing. QoS (Quality of Service) management. Fault management. Policy-based management. Service management. ITSM (Information Technology (IT) Service Management). Monitoring. System administration. DMI (Desktop Management Interface). ARM (Application Response Measurement). Trustworthy computing. HP (Hewlett-Packard) OpenView. HP BTO (Business Technology Optimization).

**IT governance:** Business-IT alignment. BSC (Balanced ScoreCard). COBIT (Control Objectives for Information and related Technology). Matrixed approach to IT governance.

**Software engineering methodology:** VBSE (Value-Based Software Engineering). Object-oriented (OO) software engineering. UML (Unified Modeling Language). Business

process modeling. BPMN (Business Process Modeling Notation). Business Motivation Model (BMM). Design patterns. Component-based software engineering. Aspect-oriented software engineering. Software architecture. Performance analysis. Software Development Life Cycle (SDLC). Plan-based software engineering. Agile methodologies. RUP (Rational Unified Process). Booch and Coad/Yourdon methodologies for object-oriented analysis and design (OOA/OOD). Requirements engineering.

**Empirical validation of software engineering:** Experiments. Measurement. Case studies.

**Software engineering tools:** Eclipse. Rational Rose. JUnit. Microsoft Visual Studio. Microsoft Visio. Altova XMLSpy. Liquid XML Studio. SharpDevelop. Borland JBuilder. Nvu. MKS Lex & Yacc. lex & yacc. Rational Clear Case. Turbo Pascal.

**Programming languages and libraries:** Java. C#/C++/C. Microsoft Foundation Classes (MFC). PHP. MATLAB/Octave. Pascal. Actus. UNIX shell scripting. Smalltalk. Scheme. LISP. FORTRAN. BASIC. VisualBasic. Prolog. Intel 80x86 assembly language.

**Operating systems:** Microsoft Windows XP/2000/NT/95/3.1. HP-UX. Linux. Solaris. SCO UNIX. MS DOS.

**Databases:** Entity-relationship (ER) diagrams. Relational data model. SQL (Structured Query Language). DataBase Management System (DBMS) architecture. Oracle. MySQL. phpMyAdmin. Microsoft Access. Open DataBase Connectivity (ODBC). Java DataBase Connectivity (JDBC).

**Artificial intelligence:** Intelligent agents. Artificial neural networks. Expert systems. Pattern recognition. Machine learning. Fuzzy logic.

**Optimization:** Constraint programming. MiniZinc.

**Computer graphics:** 2D raster graphics. Vector graphics. Geographic (GIS – Geographic Information Systems) applications.

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## **LANGUAGE PROFICIENCY (WRITTEN AND VERBAL)**

**English** – fluent (IELTS test taken in 2006: 8.5 out of 9.0, TOEFL test taken in 1998: 623).

**Russian** – native (first language, used in family).

**German** – basic.

**Serbian** (and other variants of the South Slavic language that used to be known as Serbo-Croatian, but is now broken into 4 mutually-intelligible languages) – native (used in school).

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## **PROFESSIONAL DEVELOPMENT - ATTENDED COURSES AND SEMINARS**

### **A) PROFESSIONAL DEVELOPMENT IN MANAGEMENT, BUSINESS-RELATED TOPICS AND RESEARCH COMMERCIALIZATION**

- 2010-pres. The University of New South Wales (Sydney, Australia): Completed almost all modules in the **“Future Research Leaders Program”**, discussing research strategy, grant applications, research project management, and other issues relevant for leading well-funded and productive research teams. (The remaining 1 module will be completed at the first available opportunity, as it was missed due to a business trip overseas.)
- 2009-pres. National Council of Entrepreneurial Tech Transfer – NCET2 (USA, on-line): Completed (by viewing lectures and passing the final quiz) the half-semester long on-line courses **“Understanding Patents and the Patent Application Process for Engineers and Scientists”** (2011) and **“Tech Transfer: Working with Universities and Federal Labs for Researchers”** (2010). Viewed lectures in the semester-long Webinar course **“Research Commercialization Introductory Course”** (name of the improved 2010 version) / **“Researcher Commercialization: The Essentials”** (name of the original 2009 version). Regularly following additional lectures and Webinars on research commercialization and technology transfer.
- 2007-pres. National ICT Australia – NICTA (Sydney, Australia): Regularly participating in **“Commercialisation Opportunity Workshop”** events. Attended the half-day **“Commercialisation Workshop”** (it summarized NICTA’s commercialization programs and procedures) and the half-day **“AIC/NICTA Workshop on Market Research”** organized by the Australian Institute for Commercialisation (AIC) and NICTA. Attended the two-day workshop **“Market Impact Strategies”**.
- 2007-pres. National ICT Australia – NICTA (Sydney, Australia): Completed the **“Intellectual Property Induction Workshop”**, **“IP Workshop: Investigating the Novelty of Your Research”** (focused on searching patent databases), and **training in using the QPAT and Orbit on-line tools for patent search**. Practicing patent search and analysis using the QPAT/Orbit tools and the methodology from the book **“Patent Searching: Tools and Techniques”** by D. Hunt, L. Nguyen, and M. Rodgers. Attended the presentation **“Strategic IP Landscaping”**.
- 2008-2011 National ICT Australia – NICTA (Sydney, Australia): Completed the mandatory online short courses **“Workplace Relations”** (covering sexual harassment, discrimination, workplace investigations, e-mail & Internet use, and workplace bullying & harassment) and **“NICTA’s Online OHS Induction”** (covering occupational health and safety policies and procedures). Also completed the optional **“Apply First Aid”** training and **“Emergency Control Organisation”** fire warden training.
- 2010 The University of Sydney (Sydney, Australia): Informally audited the **graduate course “Intellectual Property Management”**.
- 2009-2010 The University of New South Wales (Sydney, Australia): Informally audited lectures (but not seminars) in the **graduate course “Technology, Management, and Innovation”**.
- 2008-2009 National ICT Australia – NICTA (Sydney, Australia): Participated in the 2-day workshop **“Excellence in Presentation Skills”** and the 1-day **“Media Training”**.

- 2006-2009 Association for Computing Machinery (ACM) Professional Development Centre (international, on-line): Completed (in the reverse chronological order) the following **on-line short courses**: “**Surpassing the Competition**” (2009); “**Developing a New-product Strategy**” (2009); “**Competitive Factors in Strategic Marketing**” (2009); “**Analyzing the Market**” (2009); “**Introduction to Product Management**” (2008); “**Elements of Marketing Strategy**” (2007); “**Team Management: High-Performance Teams**” (2006).
- 2008 Macquarie Graduate School of Business (Sydney, Australia): Attended the experiential learning workshop “**What Is Strategy?**”
- 2007-2008 Australian Technology Park (Sydney, Australia): Participated in “**Business for Breakfast**” **seminar series** and the **World Intellectual Property (IP) Day seminars and panels** in 2007 and 2008 on various business and entrepreneurship topics, such as intellectual property, social entrepreneurship, opportunities/challenges for information technology industry in Australia.
- 2006-2008 The Institute of Electrical and Electronics Engineers (IEEE) Computer Society (IEEE-CS) Distance Learning (international, on-line): Completed (in the reverse chronological order) the following **on-line short courses**: “**Managing Projects (Second Edition)**” (2008); “**Developing a Strategic Plan (Second Edition)**” (2008); “**Communicating with Difficult People: Handling Difficult Co-workers**” (2006); “**Communicating with Difficult People: Working with Difficult Employees**” (2006).
- 2006 The Institute of Electrical and Electronics Engineers (IEEE) Expert Now IEEE (international, on-line): Completed a short **on-line course** “**Transition into Management**”.
- 2006 Association of Professional Engineers of Ontario – PEO (Ontario, Canada): **Passed the Professional Practice Exam – PPE** (both parts: the ethics and the law), necessary for registration as a Professional Engineer (P.Eng.) in Ontario. Prepared for the exam through self-study, using the books suggested by PEO.
- 2005 Young Inventors International (YII): Participated in the **Inventing the Future Conference 2005** (Toronto, Canada, January 2005) that contained sessions on topics related to research/innovation commercialization, entrepreneurship, and protecting intellectual property.
- 2005 The University of Western Ontario (London, Canada): Informally audited **undergraduate courses** “**Software Project Management**” and “**Engineering Ethics, Sustainable Development, and the Law**”.
- 2004-2005 The University of Western Ontario (London, Canada): Informally audited and actively participated in the **undergraduate course** “**Business for Engineers**”.
- 2004 Carleton University (Ottawa, Canada): Attended **seminar** “**To Be or Not To Be – A Discussion on Patent Issues**”.
- 1999-2004 Carleton University (Ottawa, Canada): Participated in a number of **workshops and seminars for improving study skills and job search skills**.
- 2003 CITO (Communications and Information Technology Ontario, Canada): Participated in 2-day “**How to Develop a Winning Business Plan**” **workshop** on research commercialization, entrepreneurship, and business plan writing.
- 2002-2003 Carleton University (Ottawa, Canada): Participated in “**Leadership Education And Development (LEAD)**” **workshops (all 9 offered)** on time management, motivation, team building, creative problem solving, decision making, conflict resolution, and other topics.

## **B) PROFESSIONAL DEVELOPMENT IN COMPUTING-RELATED TOPICS**

- 1993-pres. Various venues (international): Attended **numerous professional, technical, scientific, and/or business meetings, short seminars, and talks** on various advanced topics, often (but not always) held at institutions where I studied/worked. In addition, participated in (and usually presented papers at) **many international and national conferences, symposiums, and workshops**, held at different locations throughout the world.
- 2011 National ICT Australia – NICTA (Sydney, Australia): Completed the 2-day advanced course **“Decision Support, Optimisation and MiniZinc”** that covered intelligent decision support and optimization, choices in problem modeling, modeling in the constraint programming language MiniZinc, constraint classes, various types of solvers, integration of solvers with search, modeling with chosen problem classes, and different types of search. Attended some parts of the other advanced courses offered by NICTA: **“Introduction to Machine Learning”**, **“Introduction to Control and Signals Processing”**, **“Empirical Research in Software Systems”**, **“Introduction to Computer Networks”**, and **“Introductory Course in Computer Vision and Image Understanding”**.
- 2008 ICSOC 2008 Conference (Sydney, Australia, December 2008): Attended **SOA Summer School tutorials “Migration to Service Oriented Architecture (SOA) With Selected Research Challenges”**, **“Service Analysis and Design”**, **“Management of Web Services (MOWS) and Management Using Web Services (MUWS)”**, **“GET Connected: A Companion Tutorial on Web-based Services”** (mainly on RESTful Web services) and **“Distributed Scientific Workflows: Techniques, Tools and Applications”**.
- 2008 BPM 2008 Conference (Milan, Italy, September 2008): Attended **tutorials “Semantic Business Process Management: SUPER Project”** and **“Analyzing Risk and Continuity of Business Objectives”**.
- 2008 Completed **training in a leading distributed systems management tool** (details are withheld due to research confidentiality issues).
- 2006 Association for Computing Machinery (ACM) Professional Development Centre (international, on-line): Completed (in the reverse chronological order) the following **on-line short courses: “C# Programming for the Microsoft .NET Platform – Part 5: Operators, Properties, and Attributes”** (2006) – this was the most advanced course on C# offered through the ACM Professional Development Centre.
- 2006 IEEE CEC/EEE 2006 Conference (San Francisco, USA, June 2006): Attended **tutorial “Enabling Electronic Business Collaboration: From Supply Chain Business Models towards Business Transaction Development”**.
- 2005 IASTED WTAS (International Conference on Web Technologies, Applications, and Services) 2005 Conference (Calgary, Canada, July 2005): Attended **tutorial “Advances in the Semantic Web”**.
- 2004 The University of Western Ontario (London, Canada): Informally audited **graduate courses “Pervasive and Mobile Computing”** and **“Computer Systems Performance Analysis”**.
- 2004 IEEE/IFIP NOMS 2004 conference (Seoul, South Korea, April 2004): Attended **tutorials “Pervasive Computing and Management”**, **“Internet Management: Status and Challenges”**, **“Integrated Management from E-business**

- Perspective”, and “Wireless Sensor Networks: Architectures, Protocols, and Management”.**
- 2003 Carleton University (Ottawa, Canada): Informally audited **graduate courses “Communications Network Management”.**
- 2002 ACM OOPSLA 2002 conference (Seattle, USA, October 2002): Attended **tutorial “Agile Software Development Methodologies: Principles and Practices”.**
- 2000 Carleton University (Ottawa, Canada): Informally audited **graduate course “Network Computing”.**

### **C) PROFESSIONAL DEVELOPMENT IN TEACHING-RELATED TOPICS**

- 2006-pres. The University of New South Wales (Sydney, Australia): Participated in the **UNSW Network in Learning and Teaching (UNILT) program** containing several **teaching-related workshops and seminars** for university professors, as well as in the **Supervisor Training program** containing several workshops and seminars on supervising, mentoring, managing expectations, reviewing progress, and examining dissertations of graduate research students. Additionally, participated in the full-day learning and teaching forum **“The Advancement of Learning: Assessment and Beyond”** containing keynotes, presentations, roundtable discussions, and posters on innovative university teaching.
- 2006 The University of New South Wales (Sydney, Australia): Informally audited **graduate courses “Research and Management Skills” and “Engineering Postgraduate Research Essentials”** and attended a **short workshop “Introductory EndNote”.**
- 2005-2006 Lakehead University (Thunder Bay, Canada): Participated in several **teaching-related workshops and seminars** for university professors and in a teaching peer evaluation program.
- 2005 IASTED ICET (International Conference on Education and Technology) 2005 Conference (Calgary, Canada, July 2005): Attended **tutorials “Constructionism in Practice: Designing and Building with LEGO Robotics” and “Intelligent Web-Based Computer-Supported Collaborative Learning”.**
- 2004-2005 The University of Western Ontario (London, Canada): Participated in **27 teaching-related workshops and seminars** for university professors and teaching assistants.
- 2004 Carleton University (Ottawa, Canada): Attended **graduate course “Current Research and Teaching in Higher Education: Seminar in University Teaching”.** Classes discussed various topics related to university teaching and the role of a university professor.
- 2000-2003 Carleton University (Ottawa, Canada): **Achieved “Certificate in Teaching Skills for Teaching Assistants”.** Participated in **31 workshops and seminars for teaching assistants** to satisfy and exceed certificate requirements. The workshops and seminars discussed a number of topics important to teaching assistants and teaching in general.

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### **UNIVERSITY DEGREES AND COURSES**

(Official university transcripts are available upon request.)

**A) Ph.D. (DOCTORAL) DEGREE IN ELECTRICAL ENGINEERING (1999-2004)**

Carleton University (Ottawa, Canada), Department of Systems and Computer Engineering. Won numerous scholarships and awards for academic achievements. Course GPA (Grade Point Average): 12 out of 12. List of passed courses:

<b>No.</b>	<b>Course Name</b>	<b>Mark</b>	<b>Out of</b>
1.	Design of Distributed System Software	A+	A+
2.	Development of Real-Time and Distributed Software with Reusable Components	A+	A+
3.	Advanced Topics in Computer Systems: Software Agents	A+	A+
4.	Design of High Performance Software	A+	A+
5.	Directed Studies: Management of Distributed Systems and Networks	A+	A+
6.	Management Principles for Engineers	AUD	AUD
7.	Advanced Topics in Computer Communications: Mobile Computing	AUD	AUD
8.	Ph.D. Comprehensive Exams (Parts I, II, and III): major in Artificial Intelligence, minor in Computer Systems	Pass	Pass
9.	Ph.D. Thesis	Pass	Pass

Note: AUD = Audit

**B) Mag.Sc. (ADVANCED RESEARCH MASTERS) DEGREE IN ELECTRICAL ENGINEERING – SPECIALIZATION IN COMPUTER SCIENCE AND ENGINEERING (1996-1998)**

University of Nis (Serbia, Yugoslavia), Faculty of Electronic Engineering. Part-time studies. Won numerous scholarships and awards for academic achievements. Course GPA (Grade Point Average): 10 out of 10. List of passed courses:

<b>No.</b>	<b>Course Name</b>	<b>Mark</b>	<b>Out of</b>
1.	Architectures of Modern Computer Systems	10	10
2.	Programming Languages of Modern Computer Systems	10	10
3.	Software Engineering	10	10
4.	Intelligent Data Bases	10	10
5.	Expert Systems	10	10
6.	Artificial Intelligence Programming Languages	10	10
7.	Mag.Sc. Thesis	Pass	Pass

**C) Dipl.Ing. (5-YEAR UNDERGRADUATE, EQUIVALENT TO COURSEWORK MASTERS) DEGREE IN ELECTRICAL ENGINEERING – SPECIALIZATION IN COMPUTER SCIENCE AND ENGINEERING (1991-1995)**

University of Nis (Serbia, Yugoslavia), Faculty of Electronic Engineering. Best graduating student of the University of Nis during the school year 1995/1996. Won numerous other scholarships and awards for academic achievements. Studies completed nine months before the university calendar graduation date. Course GPA (Grade Point Average) without the mark for the Dipl.Ing. thesis: 9.97 out of 10. Final Dipl.Ing. thesis examination mark: 10 out of 10.

List of passed courses:

<b>No.</b>	<b>Course Name</b>	<b>Mark</b>	<b>Out of</b>
1.	Fundamentals of Computer Science	10	10
2.	Fundamentals of Electrical Engineering	10	10
3.	Physics	10	10
4.	Mathematics I	10	10
5.	Philosophy and Sociology	10	10
6.	National Defense	10	10
7.	Electrical Measurements	10	10
8.	Theory of Social Development	10	10
9.	Electronics I	10	10
10.	Programming	10	10
11.	Theory of Electrical Networks	10	10
12.	Electrotechnical Materials	10	10
13.	Mathematics II	9	10
14.	Automatics	10	10
15.	Electronic Components	10	10
16.	Logical Design	10	10
17.	Numerical Mathematics	10	10
18.	Programming Languages	10	10
19.	Electromagnetics	10	10
20.	Telecommunications	10	10

21.	Computer Organization	10	10
22.	Electronics II	10	10
23.	Measurements in Electronics	10	10
24.	Discrete Mathematics	10	10
25.	Distributed Processing	10	10
26.	Digital Circuit Design	10	10
27.	Technique and Methods of Programming	10	10
28.	English Language	10	10
29.	Data Structures and Data Bases	10	10
30.	Digital Electronics	10	10
31.	Microcomputer Systems and Input/Output Devices	10	10
32.	Systems Software	10	10
33.	Computer Telecommunications	10	10
34.	Parallel Computer Systems	10	10
35.	Pattern Recognition	10	10
36.	Artificial Intelligence	10	10
37.	Program Compilers	10	10
38.	Practical Training	Pass	Pass
39.	Dipl.Ing. Thesis	10	10

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## **LEGAL STATUS**

Citizen of Serbia, Canada, and Australia.

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## **SELECTED PERSONAL ATTRIBUTES**

Industrious.	Determined.	Dedicated.	Persistent.	Problem solver.
Self-motivated.	Flexible.	Adaptable.	Pragmatic.	Results-oriented.
Self-starter.	Creative and critical thinker.		Innovator.	Team player.
Leader.	Life-long learner.			

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## **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

**(Before 2005, the listed memberships were at the student level.)**

1998-pres. **IEEE** (The Institute of Electrical and Electronic Engineers) – 2006-2010 as an affiliate member only, in other years (after 2005) as a full member.

1998-pres. **IEEE Computer Society**

1997-pres. **ACM** (The Association for Computing Machinery)

2004-pres. **YII** (Young Inventors International)

2005-2006 **OASIS** (The Organization for Advancement of Structured Information Standards)

1998-2000 **IEEE Communications Society** (also a member during 2004 and 2006)

2001-2003 **PEO** (Professional Engineers of Ontario)

1993-1998 **IAESTE** (The International Association for the Exchange of Students for Technical Experience)

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## **INVOLVEMENT IN ORGANIZATIONS OUTSIDE THE PROFESSION**

2008-pres. Member of the Protection of the Holy Mother of God parish of the Russian Orthodox Church (Moscow Patriarchate) in Australia.

2005-pres. Donor to UNICEF (United Nations Children's Fund) through various programs, such as Global Parent (UNICEF Canada) and Gifts that Give (UNICEF Australia).

2000-pres. Regular blood donor (when possible) to Canadian Blood Services and Australian Red Cross Blood Service.

2005-2006 Donor to Canadian Diabetes Association.

2001-2006 Donor to Canadian Red Cross.

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## **EXTRACURRICULAR ACHIEVEMENTS OUTSIDE THE PROFESSION**

Acted in student theatre (comedy).

Published poems.

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## **REFERENCES**

Available upon request.

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