

# Nijaz Bajgorić, PhD, Prof.

School of Economics and Business  
University of Sarajevo, Sarajevo, Bosnia-Herzegovina  
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## CURRICULUM VITAE

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### GENERAL INFO

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Born on June 10, 1960 in Dabrica/Stolac, Bosnia and Herzegovina.  
Married, has one son.

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### EDUCATION

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**PhD: University of Sarajevo, Sarajevo, Bosnia and Herzegovina, June 1, 1991**

Thesis: "Systems Approach to Modeling of Integrated Decision Support Systems"

**MSc: University of Sarajevo, Sarajevo, Bosnia and Herzegovina, June 27, 1987**

Thesis: "Evolution of Decision Support Systems and Artificial Intelligence as a Factor of Their Further Development" – 1984-1987: Graduate Program in Business Informatics

**BSc: University of "Džemal Bijedić", Mostar, Bosnia and Herzegovina, 1979-1983**

Undergraduate Program in Economics and Business

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### TEACHING EXPERIENCE

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**School of Economics and Business ([www.efsa.unsa.ba](http://www.efsa.unsa.ba)), University of Sarajevo**

**July 2009. – current: Professor**

**2004. – 2009. – Associate Professor**

**1999. – 2004. – Assistant Professor**

Courses taught (in Bosnian):

- a) Undergraduate: Business Informatics, IT Management, Digital Economy, Operating Systems
- b) Graduate: Information Systems Design, Computer Networks

Course taught in English: Information Technology (UG Program with Griffith College Dublin).

**School of IT ([www.fit.ba](http://www.fit.ba)), University of "Džemal Bijedić", Mostar, 1997. - current:**

Associate Professor, Courses taught (in Bosnian):

- a) Undergraduate: Introduction to Information Technology, Introduction to Operating Systems, Server Operating Systems
- b) Graduate: Enterprise Information Systems.

**Bogazici University ([www.boun.edu.tr](http://www.boun.edu.tr)), Department of Industrial Engineering ([www.ie.boun.edu.tr](http://www.ie.boun.edu.tr)), Istanbul, Turkey:**

Courses taught (In English):

- IE120 - Information Technologies for Industrial Engineers (1995 – 2002.)
- IE495 - Information Technology Management (Summer Term: 2003 - 2007.)

**School of Economics, University of “Džemal Bijedić”, Mostar (1985 – 1993.):**

Teaching Assistant (1985-1991) and Assistant Professor (1991-1993).

Courses taught (in Bosnian): Quantitative Methods, Informatics, IS Analysis and Design.

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#### PUBLICATIONS

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##### ***I - In English:***

###### ***a) Authored Book***

Bajgoric, N., **Continuous Computing Technologies for Enhancing Business Continuity**, Information Science Reference, IGI – Global, November 2008. (<http://www.igi-global.com/reference/details.asp?id=9646>)

###### ***b) Edited Book***

Bajgoric, N. (Editor), **Always-On Enterprise Information Systems for Business Continuance: Technologies for Reliable and Scalable Operations**, IGI - Global, 2009. (<http://www.igi-global.com/reference/details.asp?id=34627>)

###### ***c) Book chapters***

1. Bajgoric, N., **Operating Systems: A Business Perspective**, in: Wah, B.W. (Editor in Chief), Wiley Encyclopedia Of Computer Science And Engineering, John Wiley & Sons, November, 2008
2. Bajgoric, N., **Toward Always-On Enterprise Information Systems**, in: Gunasekaran, A. (ed), Modeling and Analysis of Enterprise Information Systems - Advances in Enterprise Information Systems, IGI Global, 2007, ISBN: 978-1-59904-477-4, pp. 250-284
3. Bajgoric, N., **Toward Always-On Enterprise Information Systems**, in: Clarke, S. (ed), End-User Computing: Concepts, Methodologies, Tools and Applications (4 Volumes), Information Science Reference, February 2008, ISBN: 978-1-59904, pp. 2401-2426
4. Bajgoric, N., **Information Technologies for Virtual Enterprises and Agile Management**, in: A. Gunasekaran (ed), Agile Manufacturing: The 21st Century Competitive Strategy, Elsevier Science, ISBN: 0-08-043567-X, 2001, pp. 397-417
5. Draman, M., Altinel, I.K., Bajgoric, N., Unal, A.T., Birgoren, B. **An Object-Oriented Optimization-based Software for Agile Manufacturing In Process Industries**, in: A. Gunasekaran (ed), Agile Manufacturing: The 21st Century Competitive Strategy, Elsevier Science, ISBN: 0-08-043567-X, 2001, pp. 265-279
6. Draman, M., Altinel, I.K., Bajgoric, N., Ünal, A.T., Birgören, B., **An Object-Oriented Graphical Modeler for Optimal Production Planning In a Refinery**, in: Laguna, M., Gonzalez Velarde, J.L. (eds), Computing Tools for Modeling, Optimization and Simulation: Interfaces in Computer Science and Operations Research, Kluwer Academic Publishers, ISBN: 0-7923-7718-4, 2000, pp. 263-278
7. Bajgoric, N., **Web-to-Host Connectivity Tools in Information Systems**, in: Guruge, A., Lindrgen, L. (eds), Web-to-Host Connectivity, CRC Press, 2000

8. Bajgoric, N., **Web-to-Host Connectivity Tools in Information Systems**, in: Roxanne E. Burkey and Charles V. Breakfield (eds.), *Designing a Total Data Solution: Technology, Implementation, and Deployment*, Auerbach Publications, ISBN: 0849308933, 2001, (Chapter 34)
9. Bajgoric, N., **Web-to-Host Connectivity Tools in Information Systems**, in: Purba, S. (ed), *New Directions in Internet Management*, Auerbach Publications, ISBN: 0849311608, 2001
10. Bajgoric, N., **Decision Support Systems versus Expert Systems: The Systems Approach**, in: Jenkins, M.A., Siegle, H.S. (eds), *MIS and Organizations: An International Perspective*, Wm. C. Brown Publishers, 1990.

**d) Journal Articles**

11. Bajgoric, N., Moon, Y.B., **Enhancing Systems Integration by Incorporating Business Continuity Drivers**, *Industrial Management and Data Systems*, Vol. 109, Issue 1, 2009, pp. 74-97
12. Bajgoric, N., **Information Technologies for Business Continuity: An Implementation Framework**, *Information Management and Computer Security*, Vol. 14/5, 2006, pp. 450-466, ISSN: 0968-5227
13. Bajgoric, N., **Information Systems for E-Business Continuance: A Systems Approach**, *Kybernetes: The International Journal of Systems and Cybernetics*, Vol. 35, Issue 5, 2006, pp. 632-652, ISSN: 0368-492X
14. Bajgoric, N., **Continuous Computing Technologies For Improving Performances Of Enterprise Information Systems**, *International Journal Of Enterprise Information Systems*, Vol. 1, 4, 2005, pp. 70 – 89, ISSN: 1548-1115
15. Bajgoric, N., **ServerWare For Business Continuity**, *International Journal Of Information Technology*, Vol. 1, Number 3, 2004, pp. 161-165, ISSN:1305-239X
16. Bajgoric, N., **Information Technologies For Agile Management**, *International Journal of Agile Manufacturing*, ISSN: 1536-2639, Vol.6, No.2, 2003, Special Issue: Towards Responsive Manufacturing and Supporting Technologies, pp. 23-39
17. Bajgoric, N., **Server Operating Systems For E-Business: Features and Functions**, *Information Systems Management*, ISBN: 10580530, Vol. 20, No 1, 2002, pp. 42-49
18. Bajgoric, N., Altinel, İ.K., Draman, M., Ünal, A.T., **Some Aspects of Using CASE Tools In A Fusion-based Application Development Project for Production Optimization**, *Industrial Management and Data Systems*, ISSN: 0263-5577, Vol. 102, No 8, 2002, pp.463-471
19. Unal, A. T., Draman, M., Altinel, İ.K., Bajgoric, N., Geriskovan, A.I., **Clone-Based Modeling for Optimal Production Planning In Process Industries**, *International Journal of Production Research*, ISSN 0020-7543, Vol. 40,16, 2002, pp. 4041-4058
20. Draman, M., Altinel, İ.K., Bajgoric, N., Ünal, A.T., Birgören, B., **A clone-based graphical modeler and mathematical model generator for optimal production planning in process industries**, *European Journal of Operational Research*, ISSN: 0377-2217, Vol. 137 (3), 2002, pp. 483-496,
21. Bajgoric, N., **Internet Technologies For Improving Data Access**, *Information Systems Management Journal*, ISBN: 10580530, Vol.18, 3, 2001, pp. 30-41
22. Bajgoric, N., **Web-based Information Access for Agile Management**, *International Journal of Agile Management Systems - IJAMS 2/2*, ISSN: 1465-4652, MCB University Press, 2000, pp. 121-130
23. Bajgoric, N., **Organizational Systems Integration: Management Information Systems Perspective**, *The Journal of Enterprise Resource Management*, APICS Australia, Vol. 1, 2000, pp. 32-40
24. Bajgoric, N., **Web-to-Host Connectivity Tools in Information Systems**, *Systems Development Management*, ISBN: 10967893, Auerbach Publications, 1999

25. Bajgoric, N., **Organizational Systems Integration: A Management Information Systems Perspective**, Journal of Concurrent Engineering, Vol.5, No 2, June 1997, ISSN: 1063293X, Technomic Publ. Co., pp. 113-121

**e) Conference Articles:**

26. Ibrahimović S., Bajgorić N. **The Role of Information Technology in Basel II Implementation Process**, ICES 2006, School of Economics and Business in Sarajevo, 2006
27. Bajgorić, N., **Information Technologies For Agile Management**, ICRM-2002, (invited paper) 2<sup>nd</sup> International Conference on Responsive Manufacturing, Gaziantep, Turkey, June 2002
28. Bajgoric, N., Altinel, I.K., Draman, M., Unal, A.T., **Some Aspects of Using CASE Tools In A Fusion-based Application Development Project**, CASE 13, Opatija, 2001
29. Köseoğlu, D., Altinel, I.K., Diraman, M., Ünal, A. T., Bajgoric, N., **Object-Oriented Development of A Decision Support Module For Parametric Anaysis Of Linear Programming**, XXI. National Meeting on Operational Research-Industrial Engineering, June 2000, Eastern Mediterranean University, Industrial Engineering, Department, Famagusta, TRNC (Cyprus)
30. Draman, M., Altinel, I.K., Bajgoric, N., Ünal, A.T., Birgören, B., **An Object-Oriented Graphical Modeler for Optimal Production Planning In a Refinery**, 7th INFORMS Computing Society Conference on OR and Computing Tools for the New Millennium, Cancún, México, January, 2000
31. Bajgoric, N, Altinel, I.K., Draman, M., Ünal, A.T, **An Integrated Application Development Framework for An Object-Oriented Optimization-based Production Planning Software**, 4th Annual International Conference on Industrial Engineering Applications and Practice, San Antonio, Texas, November 1999
32. Bajgoric, N, Altinel, I.K., Draman, M., Ünal, A.T., **Using Paradigm Plus Case Tool in a Fusion-based Application Development Project**, IEEE Conference TOOLS Asia99, Nanjing, China, 1999
33. Veledar, E., Bajgoric, N., **Evaluating Systems Integration Using Fuzzy Sets Theory**, 2nd Annual International Conference on Industrial Engineering Applications and Practice, November 12-15, 1997, San Diego, USA
34. Bajgoric, N., **Virtual Classroom Support Systems: A Systemic View**, 15th International System Dynamics Conference, August 19-22, 1997, Istanbul, Turkey
35. Bajgoric, N., **Information Systems Integration Management: A Contingency Approach**, 1st Annual International Conference on Industrial Engineering Applications and Practice, Houston, 1996
36. Bajgoric, N., **Systems Technology in Information Systems Integration**, ISAS '96 (International Conference on Information Systems Analysis and Synthesis), Orlando, 1996
37. Bajgoric, N., **Computer Integrated Management and Computer Literacy of Managers**, MS/OR Conference - YAEM '95, Middle East Technic University, Ankara, Turkey, 1995
38. Bajgoric, N., **Model for Integration of Information Systems: A Decision Support Perspective**, XIV IASTED International Conference: Modelling, Identification and Control, Innsbruck, Austria, 1995
39. Bajgoric, N., **An Approach to the Structuring of Integrated Decision Support Systems**, MS/OR Conference - YAEM '94, Bilkent University, Ankara, Turkey, 1994
40. Bajgoric, N., **Systems - Information Engineering Approach to the Integration of Decision System and Information System**, IEEE Illrd International Conference on Systems Integration - ICSI '94, Sao Paulo, Brazil, 1994
41. Bajgoric, N., **Toward Integrating Information Systems**, 13th International Conference "Information Technology Interface", Cavtat, Croatia, 1991.

42. Lojpur, A., Bajgoric, N., **Some Aspects of the Organizational Structure Effectiveness in the Conditions of Information Technology Development**, SYPRO, Warsaw, 1990.
43. Bajgoric, N., **Decision Support Systems versus Expert Systems: The Systems Approach**, Proceedings of International Conference "Organization and Information Systems, Bled, Slovenia, 1989.

## ***II - In Bosnian and Serbo-Croatian:***

### ***a) Books***

1. Bajgorić, N., **Menadžment informacijskih tehnologija** (Information Technology Management), knjiga-udžbenik, Izdavač: Ekonomski fakultet u Sarajevu, 2007
2. Bajgorić, N., **Informacijska tehnologija – treće izdanje (Information Technology)**, knjiga-udžbenik, Izdavač: Univerzitetska knjiga Mostar, ISBN – 9958-603-02-09, 2006.
3. Bajgorić, N., **Operativni sistemi – Uvod u OS (Operating Systems – Introduction to OS)**, knjiga – udžbenik, Izdavač: Univerzitetska knjiga Mostar, ISBN – 9958-603-07-01, 2008
4. Bajgorić, N., **Operativni sistemi – Server OS (Operating Systems – Server OS)**, knjiga – udžbenik, Izdavač: Univerzitetska knjiga Mostar, ISBN – 9958-603-07-02, Decembar, 2004
5. Bajgorić, N., **Računarske komunikacije u poslovnom kompjutingu (Computer Communications in Business Computing)**, Izdavač: Ekonomski fakultet u Sarajevu, Februar 2003
6. Savić, A., Bajgorić, N., **Zbirka zadataka iz informatike sa osnovama teorije, (Solved Problems in Informatics with Theoretical Basis)**, zbirka zadataka, Savremena administracija, Beograd, ISBN – 86-387-0223-X, 1991.

### ***b) Journal-Conference Papers***

1. Bajgorić, N., **Server operacijska okruženja u izgradnji informacijskih sistema za e-business**, CASE 14, Opatija, 2002
2. Bajgoric, N., **Uredski informacijski sistemi i informacijska pismenost menadžera**, (Office Information Systems and Information Literacy of Managers), International Conference "Office Automation", Varazdin, 1993.
3. Bajgoric, N., **Okvir za informacijsku pismenost menadžera**, (A Framework for Information Literacy of Managers), Ekonomski analiticar 6, Zagreb, 1993.
4. Bajgoric, N., **Sistemski model poslovnog sistema baziran na input-output pristupu**, (Systems Model of A Business System Based on the Input-Output Approach), Ekonomski analiticar 12, Zagreb, 1992.
5. Bajgoric, N., **Trendovi integracije informacijskog sistema i upravljanja poslovnim sistemom**, (Trends of the Integration of Information Systems and Business System Management), Ekonomski analiticar 4, Zagreb, 1991.
6. Savic, A., Bajgoric, N., **Savremene metodologije projektovanja informacijskih sistema**, (Contemporary Information System Design Methodologies), Praksa 2, Beograd, 1990.
7. Bajgoric, N., Lojpur, A., **Automatizacija uredskog poslovanja i efikasnost funkcioniranja poslovnog sistema**, (Office Automation and Business System Efficiency), Conference "Office Information Systems", Varazdin, 1990.
8. Krsmanovic, S., Bajgoric, N., Savic, A., **Informacijski sistemi za podrsku odlucivanju i savremeni ured**, (Decision Support Systems and Modern Office), EISS, Neum, 1990.
9. Bajgoric, N., **Sistemi za podrsku odlucivanju i automatizacija uredskog poslovanja**, (Decision Support Systems and Office Automation), Conference "Office Information Systems", Varazdin, 1989.

10. Topolovec, V., Bajgoric, N., **Inteligentni informacijski sistemi za podrsku odlucivanju**, (Intelligent Decision Support Systems), Proceedings of the Faculty for Organization and Informatics, Varazdin, 1989.
11. Bajgoric, N., Lojpur, A., Veledar, E., **Neki aspekti primjene koncepta DSS-a u poslovnom odlucivanju**, (Some Aspects of the Application of DSS in Business Decision Making), XVII Conference of Information Systems, Novi Sad, 1989.
12. Bajgoric, N., Savic, A., **Umjetna inteligencija i razvoj informacijskih sistema**, (Artificial Intelligence and Information System Design), XVII Conference of Information Systems, Novi Sad, 1989.
13. Bajgoric, N., Lojpur, A., **Sistemi za podrsku odlucivanju - mogucnosti i primjena**, (Decision Support Systems - Features and Applications), EISS, Neum, 1989.
14. Bajgoric, N., Savic, A., **Razvoj i osnovne karakteristike metodoloskih pristupa projektovanju informacijskih sistema**, (Evolution and Characteristics of the Information System Design Methodologies), Conference EISS, Neum, 1989.
15. Bajgoric, N., **Sistemi za podrsku odlucivanju versus ekspertni sistemi**, (Decision Support Systems versus Expert Systems), Sistemi delta 7, Ljubljana, 1989.
16. Bajgoric, N., **Komponente sistema za podrsku odlucivanju**, (Components of Decision Support Systems), Ekonomski analiticar 2, Zagreb, 1989.
17. Bajgoric, N., **Analiza glavnih komponenti**, (Principal Component Analysis), Bilten Univerziteta "Dzemal Bijedic" 21, Mostar, 1988.
18. Bajgoric, N., **O primjeni matematickih metoda i modela u poslovnom odlucivanju** (About the Application of Mathematical Methods and Models in Business Decision Making), Planiranje i analiza poslovanja, Beograd, 1988.
19. Bajgoric, N., Maksumic, H., **Prikaz metodologije informacijskog inzenjerstva**, (Methodology of Information Engineering), Conference EISS, Neum, 1988.
20. Bajgoric, N., **Modeliranje kao osnova savremenog softvera za podrsku odlucivanju**, (Modeling as a Basis of the Software for Decision Making), Conference EISS, Neum, 1988.
21. Bajgoric, N., **Inteligentni sistemi za podrsku odlucivanju**, (Intelligent Decision Support Systems), Praksa 2, Beograd, 1988.
22. Bajgoric, N., **Sistem za podrsku odlucivanju kao osnova integralnog informacijskog sistema**, (Decision Support System as a Basis of Integrated Information System), Ekonomski analiticar 5, Zagreb, 1988.
23. Topolovec, V., Bajgoric, N., **Razvoj sistema za podrsku odlucivanju** (Evolution of Decision Support Systems), Conference EISS, Mostar, 1986.
24. Bajgoric, N., **Komparativni prikaz metodologija SDM - ISAC**, (Comparative Study of Information Systems Design Methodology: SDM - ISAC), Conference EISS, Mostar, 1986.

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#### FIELDS OF INTERESTS

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Business Continuity, Business Computing, Information Technology Management, Enterprise Information Systems, Server Operating Platforms

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#### IT SKILLS - EXPERIENCE

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- Programming Languages/Application Development Tools: C, C++, C++ Builder, HP Softbench (1996-2001)
- Operating Systems (System and Network Administration): HP-UX, SGI IRIX, Digital Ultrix, SunOS, Ultrix, OpenVMS, Linux, Windows NT, MacOS. Network Services: TCP/IP,

NFS/NIS, PC-TCP, MacTCP, Novel NetWare, NetWare-Windows NT migration, PC-Mac, PC-Unix, Mac-Unix, Samba, PC/X, LAN/WAN/Internet (1993-2001).

- Office Tools: Word, Excel, Access, PowerPoint
- HTML Tools: FrontPage, AceHTML Pro
- CASE Tools: Paradigm Plus, Rational ROSE (1997-2001)
- DSS Tools: Decision Pro

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#### LANGUAGES

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<b>Bosnian</b>	– native
<b>English</b>	– very good
<b>Turkish</b>	– good
<b>French</b>	– basic

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#### IT/IS – PROJECTS

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1. 2004-2007: Information System of the University of Sarajevo: Network Infrastructure, Registrar Application, Library Information System (Project Coordinator), University of Sarajevo.
2. 1993-2001: System and Network Design, Administration and Management (System Manager/System Administrator), Bosphorus University, Department of Industrial Engineering, Istanbul, Turkey. Administered OS-platforms: Windows 3.x, Windows 9x, Windows NT, MacOS, HP-UX, Ultrix, SunOS, IRIX, OpenVMS, LAN/WAN/Internet Infrastructure, CourseWare.
3. 1997-2001: Application Development - A Prototype of an Interactive Modeller - Decision Support System for Production Planning in A Petroleum Refinery (Member of the Application Development Team), project sponsored by a hardware and software donation from HP (Fusion method, Object-Oriented Approach, Paradigm Plus/Rational Rose CASE tools, HP SoftBench/Motif, Borland C++ Builder), Bosphorus University, Department of Industrial Engineering, Istanbul, Turkey.
4. 1996-2002 (IT Consultant): IT Consulting: System and Network Administration, System Management, System Integration, Internet-WWW-Intranet platforms, BPR projects, TQM projects and ERP projects for the following companies: Probel CM-Istanbul, Erensan-Istanbul, Enka Marketing-Istanbul.
5. Kompjuterizacija RO "Rudnik i TE Gacko", Idejni projekat (IS Analysis and Design), Ekonomski fakultet, Mostar, 1985.
6. Kompjuterizacija RO "Hepok Čapljina", Idejni projekat (IS Analysis and Design), Ekonomski fakultet, Mostar, 1987.
7. Kompjuterizacija RO "Regionalni medicinski centar u osnivanju Mostar", Idejni projekat (IS Analysis and Design), Ekonomski fakultet, Mostar, 1989.
8. Kompjuterizacija RO "Oslobodjenje Sarajevo", Idejni projekat (IS Analysis and Design), Ekonomski fakultet, Sarajevo, 1990.
9. Kompjuterizacija RO "Lasta Čapljina", Idejni projekat (IS Analysis and Design), 1991.

#### Other projects (Higher Education)

- 2005-2008: ECTS - Design and Implementation of the ECTS-based Curriculum at the School of Economics and Business, Sarajevo University (Project Coordinator, ECTS Coordinator)