

## Published papers

### International (refereed) journal papers

1. **Zeljko Obrenovic**, Dragan Gasevic, "Mashing Up Oil and Water: Combining Heterogeneous Services for Diverse Users", *IEEE Internet Computing*, vol. 13, no. 6, pp. 56-64, November/December, 2009.
2. **Zeljko Obrenovic**, "Web Accessibility and Open Source Software", *Disability & Rehabilitation: Assistive Technology* 2009, Vol. 4, No. 4, Pages 227-235.
3. **Željko Obrenović**, Dragan Gašević, "End-User Service Computing: Spreadsheets as a Service Composition Tool", *IEEE Transactions on Services Computing*, vol. 1, no. 4, pp. 229-242, October-December, 2008.
4. **Zeljko Obrenovic**, Dragan Gasevic, Anton Eliens, "Stimulating Creativity Through Opportunistic Software Development", *IEEE Software*, Vol. 25, No. 6, Nov/Dec, 2008, pp. 64-70.
5. M. Jovanovic, D. Starcevic, **Z. Obrenovic**, "Designing Aircraft Cockpit Displays: Borrowing from Multimodal User Interfaces", *Transactions on Computational Science* 3: pp. 55-65, 2009.
6. Lynda Hardman, **Zeljko Obrenovic**, Frank Nack, Brigitte Kerhervé, Kurt Piersol "Canonical processes of semantically annotated media production", *ACM Multimedia Systems Journal*, Volume 14, Number 6 / December, 2008, pp. 327-340.
7. **Zeljko Obrenovic**, Dragan Gasevic, "Open-Source Software: All you do is put it together", *IEEE Software*, Vol. 24, No. 5, Sept/Oct, 2007, pp. 86-95.
8. **Zeljko Obrenovic**, Julio Abascal, Dusan Starcevic, "Universal Accessibility as a Multimodal Design Issue", *Communications of the ACM*, Vol. 50, No. 5, May 2007, pp. 83-88.
9. **Željko Obrenović**, Dušan Starčević, "Adapting the Unified Software Development Process for User Interface Development", *Computer Science and Information Systems*, Volume 03, Issue 01 (June 2006), pp. 33-52.
10. **Zeljko Obrenovic**, Dusan Starcevic, "Modelling Multimodal Human-Computer Interaction", *IEEE Computer*, Vol. 37, No. 9, September 2004, pp. 65-72.
11. **Željko Obrenović**, Dušan Starčević, Bran Selić, "A Model Driven Approach to Content Repurposing", *IEEE Multimedia*, Vol. 11, No. 1, January-March 2004, pp. 62-71.

12. Emil Jovanov, Dušan Starčević, Aleksandar Samardžić, Andy Marsh, **Željko Obrenović**, "EEG analysis in a telemedical virtual world", *Future Generation Computer Systems* 15 (1999), pp. 255-263.

### **Books or contributions to books**

1. **Zeljko Obrenovic**, Dusan Starcevic, Emil Jovanov, "Multimodal Presentation of Biomedical Data", in Metin Akay (Editor): *Wiley Encyclopedia of Biomedical Engineering*, Wiley, 2006, ISBN: 0-471-24967-X, DOI: 10.1002/9780471740360.ebs1325.
1. **Zeljko Obrenovic**, Dusan Starcevic, Emil Jovanov, "Virtual Instrumentation", in Metin Akay (Editor): *Wiley Encyclopedia of Biomedical Engineering*, Wiley, 2006, ISBN: 0-471-24967-X, DOI: 10.1002/9780471740360.ebs1265.
2. **Ž. Obrenović**, *Human-Computer Interaction*, FON: TEMPUS, Belgrade, 2004, ISBN 86-7680-027-8, (in Serbian, adapted PhD Thesis).
3. **Ž. Obrenović**, D. Starcevic, "History of Human-Computer Interaction", In Devedzic, V. (ed.) *Intelligent System Technologies*, FON – School of Business Administration & TEMPUS, Belgrade, 2004, pp. 73-90, ISBN 86-7680-026-X (in Serbian).
4. Dušan Starčević, Emil Jovanov, Vlada Radivojević, **Željko Obrenović**, Aleksandar Samardžić, "Virtual medical devices for telemedical applications", in P. Spasić, I. Milosavljević, M. Jancic-Zguricas (Eds.), *Telemedicine*, Academy of Medical Sciences of Serbian Medical Association, Belgrade, Yugoslavia, pp. 218-244, 2000.
3. Dušan Starčević, Vlada Radivojević, **Željko Obrenović**, Emil Jovanov, Aleksandar Samardžić, "Technological breakthroughs in neurophysiology: Virtual medical devices for EEG analysis", in *Ilankovic (Ed.): Consciousness, sleeping, dreams*, Belgrade, 1999, pp. 145-158.

### **International (refereed) conference papers**

1. **Zeljko Obrenovic**, Jacco van Ossenbruggen, "Web Browser Accessibility Using Open Source Software", In Proceedings of the 2007 international cross-disciplinary conference on Web accessibility (W4A), co-located with WWW'2007 conference, Banff, Canada, May 07 - 08, 2007, ACM International Conference Proceeding Series, Vol. 225 ACM Press, New York, NY, 15-24.
2. César, P.S., Bulterman, D. C., **A. Obrenovic, Z.**, Ducret, J., Cruz-Lara, S.: "An Architecture for Non-Intrusive User Interfaces for Interactive Digital Television", In Proceedings European Interactive TV Conference (EUROITV) May 24-May 25, Amsterdam, NL. Springer, 2007, Series: Lecture notes in computer science, Vol. 4471, June 2007, pp. 11 - 20.

3. **Zeljko Obrenovic**, N. Garay, J.M. López, I. Fajardo, I. Cearreta, "An Ontology for Description of Emotional Cues", in Jianhua Tao, Tieniu Tan, Rosalind W. Picard (Eds.): *Affective Computing and Intelligent Interaction*, First International Conference, ACII 2005, Beijing, China, October 22-24, 2005, Proceedings. Lecture Notes in Computer Science 3784, Springer 2005, pp. 505-512.
4. **Zeljko Obrenovic**, "A Flexible System for Creating Music while Interacting with the Computer", *Proceedings of the 13th annual ACM international conference on Multimedia*, November 6-12, 2005, Singapore, pp. 996 - 1004..
5. **Zeljko Obrenovic**, Dusan Starcevic, Vladan Devedzic, "Using Ontologies in Design of Multimodal User Interfaces", in M. Rauterberg, M. Menozzi, and J. Wesson (Eds.): *Human-Computer Interaction - INTERACT '03*, IOS Press & IFIP, 2003, pp. 535-542.
6. **Zeljko Obrenovic**, Dusan Starcevic, Emil Jovanov, "Experimental Evaluation of Multimodal Human Computer Interface for Tactical Audio Applications", *Proceedings of IEEE International Conference on Multimedia and Expo - ICME 2002*, Lausanne, Switzerland, August 26-29 2002, Volume 2, pp. 29-32.
7. **Zeljko Obrenovic**, Dusan Starcevic, Emil Jovanov, Vlada Radivojevic, "An Agent Based Framework for Virtual Medical Devices", *Proceedings of the AAMAS'02*, ACM Press, July 15-19, 2002, Bologna, Italy.
8. Milan Marković, Zoran Savić, **Željko Obrenović**, Aca Nikolić, "A PC Cryptographic Coprocessor Based on TI Signal Processor and SMarch Card System", *International Federation for Information Processing Communications and Multimedia Security Joint working conference IFIP TC6 and TC11*, Darmstadt, Germany, May 21-22, 2001.
9. E. Jovanov, D. Starcevic, A. Marsh, **Z. Obrenovic**, V. Radivojevic, A. Samardzic, "Multi modal presentation in virtual telemedical environments", *High-Performance Computing and Networking, Proceedings Lecture Notes In Computer Science 1593*, pp. 964-972 , 1999.
10. E. Jovanov, D. Starčević, A. Marsh, A. Samardžić, **Ž. Obrenović**, V. Radivojević, "Multimodal Viewer for Telemedical Applications", *20<sup>th</sup> Annual Int'l Conf. IEEE Engineering in Medicine and Biology*, Hong Kong, October 1998.

#### **International (refereed) workshops**

1. Frank Nack, Thecla Schiphorst, **Zeljko Obrenovic**, Michiel KauwATjoe, Simon de Bakker, Angel Perez Rosillio, Lora Aroyo (2007) Pillows as Adaptive Interfaces in Ambient Environments. ACM MultiMedia Workshop on Human Centered Multimedia, 28.09.2007, Augsburg, Germany.
2. **Ž. Obrenović**, Raphaël Troncy and Lynda Hardman. "Vocabularies for Description of Accessibility Issues in Multimodal User Interfaces", In I. van der Sluis, M. Theune, E. Reiter, E. Kraemer (Eds.): *Proceedings of the Workshop*

on *Multimodal Output Generation*, Aberdeen, Scotland, January 25-26, 2007, CTIT Workshop Proceedings Series WP07-01, pp. 117-128.

3. **Ž. Obrenović**, D. Starcevic, E. Jovanov, "Toward Optimization of Multimodal User Interfaces for Tactile Audio Applications", Chapter in N. Carbonell, C. Stephanidis (Eds.): *Universal Access Theoretical Perspectives, Practice, and Experience - Lecture Notes in Computer Sciences 2615* (Proceedings of the ERCIM Workshop User Interfaces For All), Springer, 2003, pp. 287-298.
4. **Ž. Obrenović**, D. Starcevic, E. Jovanov, Vlada Radivojevic, "Implementation of Virtual Medical Devices in Internet and Wireless Cellular Networks", in *Proceedings of the IFIP Tc6/Wg6.4 Workshop on internet Technologies, Applications and Social Impact* (October 10 - 11, 2002). W. Cellary and A. Iyengar, Eds. *IFIP Conference Proceedings*, vol. 232. Kluwer B.V., Deventer, The Netherlands, pp. 229-242.
5. **Ž. Obrenović**, D. Starcevic, E. Jovanov, V. Radivojevic, "An Implementation of Real-time Monitoring and Analysis in Telemedicine", *Third IEEE EMBS Information Technology Applications in Biomedicine - Workshop of the International Telemedical Information Society ITAB-ITIS 2000*, Arlington, Virginia, November 2000, pp. 74-78.

#### **National (refereed) journal papers**

1. **Željko Obrenović**, "Experimental evaluation of user performance in a pursuit tracking task with multimodal feedback", *Yugoslav Journal of Operational Research*, Vol. 14, No. 1, 2004.
2. **Željko Obrenović**, Dušan Starčević Emil Jovanov, "Optimization of Multimodal Communication for Tactical Audio Applications", *Info M*, Vol. 1, No. 1. 2003.
3. Miloš Merdžanović, Nedeljko Ostojić, **Željko Obrenović**, "An application for supporting military sport competitions", *Military technical journal*, Vojnoizdavački zavod, Belgrade, No. 2, Vol. 2003, pp. 182-183.
4. Zoran Savić, **Željko Obrenović**, "Protecting Data in the State Agencies' Networks", *INFO science*, 1-2 (2000), pp. 41-45.
5. Dušan Starčević, **Željko Obrenović**, Emil Jovanov, Daniel Karron, "Tactical Audio Training System based on Virtual Reality", *INFO science*, 6/99 (1999), pp. 4-7.

#### **National (refereed) conference papers**

1. Dušan Starčević, **Željko Obrenović**, Vlada Radivojević, "Multimodal Neural Feedback", *XXX Yugoslav Symposium of Operational Research - SYMOPIS 2003*, Herceg Novi, Serbia and Montenegro, 30. September - 03. October 2003.

2. **Obrenović Ž.**, Jovanović V., Marchić I., "Selective Access to SQL Server Databases: An Integrative Approach", *XVIII Information Technology Conference - InfoTech 2003*, Vrnjačka Banja, Serbia and Montenegro, 26-30. May 2003.
3. Štavljanin V., Minović M., Starčević D., **Obrenović Ž.**, "Applying WAP 2.0 Technologies in Banking", *XVIII Information Technology Conference - InfoTech 2003*, Vrnjačka Banja, Serbia and Montenegro, 26-30. May 2003.
4. Dragan Gašević, **Željko Obrenović**, "An Approach to Integration of Structured Data Sources Based on Metamodel Transformations", *YUINFO Conference 2003*, Kopaonik, Serbia and Montenegro, 10-14. March 2003.
5. **Željko Obrenović**, Dušan Starčević, Velimir Štavljanin, Vladimir Batalov, "Applying WAP/SMS Technologies in Banking", *X Telecommunications Forum - TELFOR 2002*, Belgrade, Serbia and Montenegro, 10-14. March 2003, 26-28. 11. 2002.
6. Nedeljko Ostojić, **Željko Obrenović**, Miloš Merdžanović, Nenad Dulanović, Zoran Ružić, "Web-based Information Support of SYMOPIS 2001 Conference: Lessons Learned", *XXIX Yugoslav Symposium of Operational Research - SYMOPIS 2002*, 10-14. March 2003, Tara, Serbia and Montenegro, 09. - 12. October 2002, pp. VI-5 - VI-8.
7. Miloš Merdžanović, **Željko Obrenović**, Dane Hinić, "Web-based Information Support of Sport Competitions", *XXIX Yugoslav Symposium of Operational Research - SYMOPIS 2002*, Tara, Serbia and Montenegro, 09. - 12. October 2002, pp. VI-13 - VI-16.
8. **Obrenović Željko**, Starčević Dušan, Jovanov Emil, "Experimental Evaluation of Multimodal Interfaces for Tactical Audio Applications", *XVII Information Technology Conference - InfoTech 2002*, Vrnjačka Banja, Serbia and Montenegro, 17-21. June 2002.
9. Dusan Starcevic, **Zeljko Obrenovic**, Emil Jovanov, Vlada Radivojevic, "Virtual Medical Devices in Internet and Wireless Cellular Networks", *BALCOR'02*, Solun, Greece.
10. **Obrenović Željko**, Starčević Dušan, Jovanov Emil, Radivojević Vlada, "Virtual Medical Devices for Monitoring and Analysis of EEG signals based on Internet and Cellular Network Technologies", *XVI Information Technology Conference - InfoTech 2001*, 19-22. June 2001, Vrnjačka Banja, Serbia and Montenegro, ISBN 86-82831-07-4.
11. Batalov Vladimir, Štavljanin Velimir, **Obrenović Željko**, "Mobile Counter", *XVI Information Technology Conference - InfoTech 2001*, 19-22. June 2001, Vrnjačka Banja, Serbia and Montenegro, ISBN 86-82831-07-4.
12. Barać Goran, Stanković Živko, **Obrenović Željko**, Novaković Slađana, Marchić Ivanka, Novaković Nebojša, "Developing Military Human Resources Management Information System: Lessons Learned", *XVI Information*

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14. **Željko Obrenović**, Dušan Radović, "A Web-based Solution for Acquisition, Analysis and Presentation of Metrological Data", *VIII Telecommunications Forum - TELFOR 2000*, Belgrade, Serbia and Montenegro, 21-22.11.2000, pp. 29-32.
15. **Željko Obrenović**, Nedeljko Ostojić, Milorad Živanović, Mladen Đurašinović, "Information Support of Marathon Competitions: A Web-based Approach", *YUINFO Conference 2000*, Kopaonik, Serbia and Montenegro, 2000.
16. Nedeljko Ostojić, **Željko Obrenović**, Milorad Živanović, Dragan Strelčić, Mladen Đurašinović, "Web Based Information Processing Support for Sportsmen Competitions", *BALCOR 2000*, Banja Luka, 2000.
17. E. Jovanov, **Z. Obrenovic**, D. Starcevic, D.B. Karron, "A Virtual Reality Training System for Tactical Audio Applications", *SouthEastern Simulation Conference SESC'99*, Huntsville, Alabama, October 6-7, 1999.
18. **Željko Obrenović**, Nedeljko Ostojić, Mladen Đurašinović, Đuro Vojnović, "Information Support of Shooting Competitions: A Web-based Approach", *XLIII ETRAN Conference 1999*, Zlatibor, Serbia and Montenegro, 20-22. September 1999.
19. Nedeljko Ostojić, **Željko Obrenović**. . . , "Information Support of Shooting Competitions: Lessons Learned", *XLIII ETRAN Conference 1999*, Zlatibor, Serbia and Montenegro, 20-22. September 1999.
20. **Željko Obrenović**, "An approach to server activities monitoring based on distributed software agents", *VI Telecommunications Forum - TELFOR'98*, Belgrade, Serbia and Montenegro, 24-26. Novembar 1998, pp. 350-353.
21. Emil Jovanov, Dušan Starčević, Vlada Radivojević, **Željko Obrenović**, Aleksandar Samardžić, "Visualization and Sonification of Biomedical Data", *Conference on Informatics in Medicine, Pharmacy, and Social Protection - IFM'98*, Aranđelovac, Serbia and Montenegro, 19-23. May, 1998, pp. 19-24 (pozvano predavanje).
22. **Željko Obrenović**, "The Software System for Supporting Email Access to Internet Services", *V Telecommunications Forum - TELFOR'97*, Belgrade, Serbia and Montenegro, 25-27. novembar 1997, pp. 337-340.
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24. **Željko Obrenović**, "An Object-oriented Approach to Development of Graphical Interface for Information System Modeling", *SINFON Conference 1996*, Zlatibor, Serbia and Montenegro, 8-11. novembar 1996, pp. 10.
25. **Željko Obrenović**, Miroslav Maystorović, Branko Milovanović, "Development of the System for Evaluation of Artillery Actions: An Object-Oriented Approach", *XXIII Yugoslav Symposium of Operational Research - SYMOPIS 1996*, Žabljak, Serbia and Montenegro, 1996, pp. 969-972.