

Zeljko Obrenovic's Publications

Books

1. **Z. Obrenovic, E. Stolterman,**
Design Instability: Notes on Design Complexity,
LeanPub 2017.
2. **Z. Obrenovic,**
Research and Practice: Essays of a Researcher-Practitioner,
LeanPub 2017.
3. **Z. Obrenovic,**
Human-Computer Interaction,
FON: TEMPUS, Belgrade, 2004, ISBN 86-7680-027-8,
(in Serbian, adapted PhD Thesis).

Journals

1. **Z. Obrenovic,** "Insights from the Past: The IEEE Software History Experiment", *IEEE Software*, vol. 34, No. 7, (Jul/Aug 2017), pp. 71-78.
2. **Z. Obrenovic,** "Research and Practice: The Curious Case of 'Small' Researchers-Practitioners", *Communications of the ACM*, vol. 56, No. 9, (Sept 2013), pp. 38-40.
3. **Z. Obrenovic,** "The Hawthorne Studies and Their Relevance to HCI Research", *ACM interactions* 21, 6 (Nov-Dec 2014), pp. 46-51.
4. **Z. Obrenovic,** "Design as a Political Activity: Borrowing From Classical Political Theories", *ACM interactions* 22, 6 (Nov-Dec 2015), pp. 42-45.
5. **Z. Obrenovic,** "Doing research in practice: some lessons learned". *ACM Crossroads*, 20, 4 (June 2014), 15-17.
6. **Z. Obrenovic,** "The four points of the HCI research compass". *ACM interactions* 20, 3 (May 2013), 34-37. **Z. Obrenovic,** "Software Sketchifying – Bringing Innovation into Software Development", *IEEE Software*, vol. 30, no. 3 (March 2013), pp. 80-86.
7. **Z. Obrenovic,** Bart den Haak, "Integrating End-User Customization and Authentication: The Identity Crisis", *IEEE Security and Privacy*, Spetember/October 2012, Vol. 10, No. 5, pp. 82-85.
8. **Z. Obrenovic,** J.B. Martens, "Sketching Interactive Systems with Sketchify", *ACM Transactions on Computer Human Interaction (ToCHI)*, Vol. 18, no. 1, March 2011. (Also presented at the ACM CHI 2011 conference)

9. **Z. Obrenovic**, D. 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.
10. **Z. Obrenovic**, J. Abascal, D. Starcevic, "Universal Accessibility as a Multimodal Design Issue", *Communications of the ACM*, Vol. 50, No. 5, May 2007, pp. 83-88.
11. **Zeljko Obrenovic**, Dušan Starcevic, Bran Selic, "A Model Driven Approach to Content Repurposing", *IEEE Multimedia*, Vol. 11, No. 1, January-March 2004, pp. 62-71.
12. **Z. Obrenovic**, D. Starcevic, "Modelling Multimodal Human-Computer Interaction", *IEEE Computer*, Vol. 37, No. 9, September 2004, pp. 65-72.
13. **Z. Obrenovic**, "Rethinking HCI education: teaching interactive computing concepts based on the experiential learning paradigm". *ACM interactions* 19, 3 (May 2012), 66-70.
14. **Z. Obrenovic**, "Design-Based Research: What We Learn When We Engage In Design Of Interactive Systems". *ACM interactions* 18, 5 (September 2011), 56-59.
15. **Zeljko Obrenovic**, Dragan Gasevic, Anton Eliens, "Stimulating Creativity Through Opportunistic Software Development", *IEEE Software*, Vol. 25, No. 6, Nov/Dec, 2008, pp. 64-70.
16. **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.
17. **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.
18. 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.
19. **Zeljko Obrenovic**, "Web Accessibility and Open Source Software", *Disability & Rehabilitation: Assistive Technology* 2009, Vol. 4, No. 4, Pages 227-235.
20. **Z. Obrenovic**, Dušan Starcevic, "Adapting the Unified Software Development Process for User Interface Development", *Computer Science and Information Systems*, Volume 03, Issue 01 (June 2006), pp. 33-52.
21. M. Jovanovic, D. Starcevic, **Z. Obrenovic**, "Designing Aircraft Cockpit Displays: Borrowing from Multimodal User Interfaces", *Transactions on Computational Science* 3: pp. 55-65, 2009.
22. Emil Jovanov, Dušan Starcevic, Aleksandar Samardzic, Andy Marsh, **Zeljko Obrenovic**, "EEG analysis in a telemedical virtual world", *Future Generation Computer Systems* 15 (1999), pp. 255-263.

Contributions to Books

1. L. Hardman, **Z. Obrenovic**, and F. Nack, "Canonical Processes of Semantically Annotated Media Production", in Raphael Troncy, Benoit Huet, Simon Schenk (Editors), *Multimedia Semantics: Metadata, Analysis and Interaction*, August 2011, Wiley-Blackwell, pages 21-34.
2. **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.
3. **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.
4. **Z. Obrenovic**, 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).
5. Dušan Starcevic, Emil Jovanov, Vlada Radivojevic, **Zeljko Obrenovic**, Aleksandar Samardzic, "Virtual medical devices for telemedical applications", in P. Spasic, I. Milosavljevic, M. Jancic-Zguricas (Eds.), *Telemedicine*, Academy of Medical Sciences of Serbian Medical Association, Belgrade, Yugoslavia, pp. 218-244, 2000.
6. Dušan Starcevic, Vlada Radivojevic, **Zeljko Obrenovic**, Emil Jovanov, Aleksandar Samardzic, "Technological breakthroughs in neurophysiology: Virtual medical devices for EEG analysis", in Ilankovic (Ed.): *Consciousness, sleeping, dreams*, Belgrade, 1999, pp. 145-158.

Other Publications

1. **Zeljko Obrenovic**, "Experimental evaluation of user performance in a pursuit tracking task with multimodal feedback", *Yugoslav Journal of Operational Research*, Vol. 14, No. 1, 2004.
2. **Zeljko Obrenovic**, Dušan Starcevic Emil Jovanov, "Optimization of Multimodal Communication for Tactical Audio Applications", *Info M*, Vol. 1, No. 1. 2003.
3. Miloš Merdzanovic, Nedeljko Ostojic, **Zeljko Obrenovic**, "An application for supporting military sport competitions", Military technical journal, Vojnoizdavacki zavod, Belgrade, No. 2, Vol. 2003, pp. 182-183.
4. Zoran Savic, **Zeljko Obrenovic**, "Protecting Data in the State Agencies' Networks", *INFO science*, 1-2 (2000), pp. 41-45.
5. Dušan Starcevic, **Zeljko Obrenovic**, Emil Jovanov, Daniel Karron, "Tactical Audio Training System based on Virtual Reality", *INFO science*, 6/99 (1999), pp. 4-7.
6. **Z. Obrenovic**, J.B. Martens. "Sketching beyond paper and pencil: lessons learned from using Sketchify", In *Proceedings of the 1st DESIRE Network Conference on Creativity and Innovation in Design (DESIRE '10)*. Desire Network, Lancaster, UK, UK, 52-61, 2010.
7. **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.
8. 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.
9. Peter Wilkins, Tomasz Adamek, Daragh Byrne, Gareth J. F. Jones, Hyowon Lee, Gordon Keenan, Kevin McGuinness, Noel E. O'Connor, Alan F. Smeaton, Alia Amin, **Zeljko Obrenovic**, Rachid Benmokhtar, Eric Galmar, Benoit Huet, Slim Essid, Rémi Landais, Félicien Vallet, Georgios Papadopoulos, Stefanos Vrochidis, Vasileios Mezaris, Ioannis Kompatsiaris, Evaggelos Spyrou, Yannis S. Avrithis, Roland Mörzinger, Peter Schallauer, Werner Bailer, Tomas Piatrik, Krishna Chandramouli, Ebroul Izquierdo, Martin Haller, Lutz Goldmann, Amjad Samour, Andreas Cobet, Thomas Sikora, Pavel Praks: "K-Space at TRECVID 2007". TRECVID 2007.
10. **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.

11. **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..
12. **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.
13. **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.
14. **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.
15. Milan Markovic, Zoran Savic, **Zeljko Obrenovic**, Aca Nikolic, "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.
16. 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.
17. E. Jovanov, D. Starcevic, A. Marsh, A. Samardzic, **Z. Obrenovic**, V. Radivojevic, "Multimodal Viewer for Telemedical Applications", *20th Annual Int'l Conf. IEEE Engineering in Medicine and Biology*, Hong Kong, October 1998.
18. 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.
19. **Z. Obrenovic**, 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.
20. **Z. Obrenovic**, 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.
21. **Z. Obrenovic**, 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.

22. **Z. Obrenovic**, 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.
23. Dušan Starcevic, **Zeljko Obrenovic**, Vlada Radivojevic, "Multimodal Neural Feedback", *XXX Yugoslav Symposium of Operational Research - SYMOPIS 2003*, Herceg Novi, Serbia and Montenegro, 30. September - 03. October 2003.
24. **Obrenovic Z.**, Jovanovic V., Marchic I., "Selective Access to SQL Server Databases: An Integrative Approach", *XVIII Information Technology Conference - InfoTech 2003*, Vrnjacka Banja, Serbia and Montenegro, 26-30. May 2003.
25. Štavljanin V., Minovic M., Starcevic D., **Obrenovic Z.**, "Applying WAP 2.0 Technologies in Banking", *XVIII Information Technology Conference - InfoTech 2003*, Vrnjacka Banja, Serbia and Montenegro, 26-30. May 2003.
26. Dragan Gašević, **Zeljko Obrenovic**, "An Approach to Integration of Structured Data Sources Based on Metamodel Transformations", *YUINFO Conference 2003*, Kopaonik, Serbia and Montenegro, 10-14. March 2003.
27. **Zeljko Obrenovic**, Dušan Starcevic, 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.
28. Nedeljko Ostojic, **Zeljko Obrenovic**, Miloš Merdžanovic, Nenad Dulanovic, Zoran Ruzic, "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.
29. Miloš Merdžanovic, **Zeljko Obrenovic**, Dane Hinic, "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.
30. **Obrenovic Zeljko**, Starcevic Dušan, Jovanov Emil, "Experimental Evaluation of Multimodal Interfaces for Tactical Audio Applications", *XVII Information Technology Conference – InfoTech 2002*, Vrnjacka Banja, Serbia and Montenegro, 17-21. June 2002.
31. Dusan Starcevic, **Zeljko Obrenovic**, Emil Jovanov, Vlada Radivojevic, "Virtual Medical Devices in Internet and Wireless Cellular Networks", *BALCOR'02*, Solun, Greece.
32. **Obrenovic Zeljko**, Starcevic Dušan, Jovanov Emil, Radivojevic 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, Vrnjacka Banja, Serbia and Montenegro, ISBN 86-82831-07-4.

33. Batalov Vladimir, Štavljanin Velimir, **Obrenovic Zeljko**, "Mobile Counter", *XVI Information Technology Conference – InfoTech 2001*, 19-22. June 2001, Vrnjacka Banja, Serbia and Montenegro, ISBN 86-82831-07-4.
34. Barac Goran, Stankovic Zivko, **Obrenovic Zeljko**, Novakovic Slađana, Marchic Ivanka, Novakovic Nebojša, "Developing Military Human Resources Management Information System: Lessons Learned", *XVI Information Technology Conference – InfoTech 2001*, 19-22. June 2001, Vrnjacka Banja, Serbia and Montenegro, ISBN 86-82831-07-4.
35. **Zeljko Obrenovic**, Dušan Starcevic, Emil Jovanov, Vlada Radivojevic, "A Web-based Solution for Real-time EEG Monitoring and Analysis", *YUINFO Conference 2001*, Kopaonik, Serbia and Montenegro, 19-23.03.2001.
36. **Zeljko Obrenovic**, Dušan Radovic, "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.
37. **Zeljko Obrenovic**, Nedeljko Ostojic, Milorad Zivanovic, Mladen Đurašinovic, "Information Support of Marathon Competitions: A Web-based Approach", *YUINFO Conference 2000*, Kopaonik, Serbia and Montenegro, 2000.
38. Nedeljko Ostojic, **Zeljko Obrenovic**, Milorad Zivanovic, Dragan Strelac, Mladen Đurašinovic, "Web Based Information Processing Support for Sportsmen Competitions", *BALCOR 2000*, Banja Luka, 2000.
39. 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.
40. **Zeljko Obrenovic**, Nedeljko Ostojic, Mladen Đurašinovic, Đuro Vojnovic, "Information Support of Shooting Competitions: A Web-based Approach", *XLIII ETRAN Conference 1999*, Zlatibor, Serbia and Montenegro, 20-22. September 1999.
41. Nedeljko Ostojic, **Zeljko Obrenovic**. . . , "Information Support of Shooting Competitions: Lessons Learned", *XLIII ETRAN Conference 1999*, Zlatibor, Serbia and Montenegro, 20-22. September 1999.
42. **Zeljko Obrenovic**, "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.
43. Emil Jovanov, Dušan Starcevic, Vlada Radivojevic, **Zeljko Obrenovic**, Aleksandar Samardzic, "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).
44. **Zeljko Obrenovic**, "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.

45. **Zeljko Obrenovic**, "Preparing Email Messages for Accessing Internet Services", *SINFON Conference 1997*, Zlatibor, Serbia and Montenegro, 14-17. November 1997, pp. 33.
46. **Zeljko Obrenovic**, "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.
47. **Zeljko Obrenovic**, Miroslav Maystorovic, Branko Milovanovic, "Development of the System for Evaluation of Artillery Actions: An Object-Oriented Approach", *XXIII Yugoslav Symposium of Operational Research - SYMOPIS 1996*, Zabljak, Serbia and Montenegro, 1996, pp. 969-972.