

LUCA-DAN SERBANATI

PUBLICATIONS

Books

1. Serbanati L.D., Bogdan C.M., *Programarea orientata spre obiecte cu exemplificari in limbajul Java (Object-Oriented Programming with Java)*, vol. 1, Polipress, pag. 249, ISBN: 978-606-515-109-3 (2010)
2. Bogdan C.M., Serbanati L.D., *Programarea orientata spre obiecte cu exemplificari in limbajul Java (Object-Oriented Programming with Java)*, vol.2, Polipress, pag. 363, ISBN: 978-88-78061-67-5 (2010)
3. Ricci F.L., Serbanati L.D. (eds), *Il Progetto MobiDis*, Bagatto Libri , Roma, ISBN: 978-88-78061-67-5 (2008)
4. F. L. Ricci, L. D. Serbanati, *MobiDis: Toward a Patient Centric Healthcare Information System*, in R. Engelbrecht et al. (Eds.), IOS Press, 2005.

Book Chapters

1. L.D.Serbanati, A.i Vasilateanu, Agentification of Electronic Healthcare Record Systems, DAAAM International Scientific Book 2015, Vol. 14, ISSN 1726-9687, ISBN 978-3-902734-05-1, Editor:B. Katalinic, pp.329-336, Chap.28,
2. Serbanati L.D., *Il ruolo dei paradigmi nell'evoluzione dei sistemi sanitari*, in Ricci L.F., Pisanelli D.M., Sicurello F. (Eds), *Dall'informatica medica alla sanità elettronica: lezioni del passato e prospettive per il futuro*, pag. 191-210, EDISEF, Roma, 2012 (in italiana)
3. Bogdan C., Serbanati L.D., *Concern-Oriented and Ontology-Based Analysis of Information Systems*, in A.D'Atri, D.Sacca(eds), „ Information Systems: People, Organizations, Institutions, and Technologies”, Part 4, pp. 245-253, Springer Verlag, 2009
4. Contenti M., Mercurio G., Ricci F.L., Serbanati L.D., *The LUMIR Project: Developing the GP's Network Pilot Program in the Basilicata Region*, in A.D'Atri, D.Sacca(eds), in „ Information Systems: People, Organizations, Institutions, and Technologies”, Part 4, pp. 255-265, Springer Verlag, 2009.
5. Serbanati L.D., *Catre o proiectare dirijata de concern-e (Towards a concern-driven design)*, in A. Bazac, G.C. Constandache, C. Ionita, L. Pana (coord.), *Logica si provocarile sociale (Logic and social challenges)*, Polipress (2008)
6. F. L Ricci, L. D. Serbanati, F. Palazzo, D. Luzi, G. Stirparo, *E-DIMEM: an economic model to estimate the costs of e-Disease Management*, Conference Information: 20th International Congress of the European-Federation-for-Medical-Informatics, Date: AUG 27-30, 2006 Univ Hamburg Maastricht NETHERLANDS, Source: Ubiquity: Technologies for better health in aging societies, Volume:124, Pages:441-446, 2006
7. Serbanati L.D., Ricci F.L., Luzi D., Fazi P., Collada Ali L., Vignetti M., *Modelling medical research processes to set up a standard for a clinical trial management system*, in: Innovation and the knowledge economy: issues, applications, case studies. IOS press. 2005
8. *Libretto sanitario personale elettronico*, F.L.Ricci, L.D.Serbanati, et al. Ospedale e Territorio;vol. 6, n° 3, dicembre 2004 (Ital.)

Journal Papers

1. V. Rentea și L. D. Serbanati, *Steps Towards Influencing Human Behavior with a Multi-Agent Prevention Assistant System*, Politehnica Scientific Bulletin, C Series - Electrical Engineering and Computer Science, 2013.
2. Serbanati, L.D., Ricci, F.L., Mercurio, G., Vasilateanu, A., *Steps towards a digital health ecosystem*, Journal of Biomedical Informatics, Volume 44, Issue 4, August. 2011
3. Paola Di Giacomo, Leonardo Bocchi, Luca-Dan Serbanati: *Educative Distributed Virtual Environments For Children*, Intelligenza Artificiale 4(1): 36-44 (2010)
4. Bogdan C., Luzi D., Ricci F.L., Serbanati L.D., *Towards an Ontology using a Concern-Oriented Approach for Information Systems Analysis*, Enterprise Interoperability II, New Challenges and Approaches, Goncalves, R.J.; Muller, J.P.; Mertins, K.; Zelm, M. (Eds.), 894 p., Hardcover, ISBN: 978-1-84628-857-9, Springer-Verlag, 2007, 4 pag.
5. Bogdan, CM; Serbanati, LD, *Formal modeling of concurrent AOP programs*, International Journal of Computers Communications & Control, Volume: 1 , Pages: 92-99, 2006
6. P.Fazi, L.Collada Ali, D.Luzi, F.L.Ricci, L.D.Serbanati, M.Vignetti, *A Proposed Clinical Trial Model: Analyzing the CT Process*, Applied Clinical Trials, Advanstar Communications Inc., Jan. 2006.
7. D.M.Popovici, J.P.Gerval, P.Chevallier, J.Tisseau, L.D.Serbanati, P.Gueguen, *Educative Distributed Virtual Environments for Children*, in Journal of Distance Education Technologies, 2(4), 18-40, oct-dec, 2004.

Published Papers of Referred Conferences and Workshops

1. Posircaru D.R., L.D. Serbanati, *Integrating legacy medical applications in a standardized Electronic Health Record platform*, Procs. of the 5th IEEE International Conference on e-Health and Bioengineering, EHB 2015, Nov. 2015, Iasi, Romania, ISBN 978-1-4673-7544-3, DOI 10.1109/EHB.2015.7391401, IEEE Publ..
2. Isaroiu M., L.D. Serbanati, *Comparison of result differences in multiple implementations of a stochastic motif finding algorithm*, Procs. of the 5th IEEE International Conference on e-Health and Bioengineering, EHB 2015, Nov. 2015, Iasi, Romania, ISBN 978-1-4673-7544-3, DOI 10.1109/EHB.2015.7391409, IEEE Publ.
3. La Iacona S., Militello C., Serbanati L.D., Mastratysi M.A., Ricci F.L., Gilardi M.C., *Personal Health System-A Tool to Support the Patient Empowerment*, Procs. of the 5th IEEE International Conference on e-Health and Bioengineering, EHB 2015, Nov. 2015, Iasi, Romania, ISBN 978-1-4673-7544-3, DOI 10.1109/EHB.2015.7391370, IEEE Publ.
4. Militello C., La Iacona, S., Serbanati L.D., Ricci F.L., Gilardi M.C., *A Virtual Health Record-based EHR System*, Procs. of the 5th IEEE International Conference on e-Health and Bioengineering, EHB 2015, Nov. 2015, Iasi, Romania, ISBN 978-1-4673-7544-3, DOI 10.1109/EHB.2015.7391425, IEEE Publ.
5. Iancu R., Serbanati L.D., Chera C., Gheorghe-Pop I.D., Ertl B., *An E-health Approach for Remote Cardiac Rehabilitation*, Procs. of the 20th International Conference on Control Systems and Computer Science, CSCS 20, May 2015, Bucharest, Romania, pp.205-210, ISBN: 978-1-4799-1779-2, DOI: 10.1109/CSCS.2015.137, IEEE Publ.
6. Serbanati L.D., Ricci F.L., *EHR-Centric Integration of Health Information Systems*, Procs of the 4th IEEE International Conference on e-Health and Bioengineering, EHB 2013, 21-23 November 2013, Iasi, Romania, ISBN: 978-1-4799-2372-4, DOI: 10.1109/EHB.2013.6707419, IEEE Publ.
7. Serbanati L.D., Radu S., *Paradigm Shifts in Health Informatics*, in HEALTHINF 2013 - Proceedings of the International Conference on Health Informatics, pag. 256-262, Barcelona, Spain, 11-14 February, 2013. SciTePress, ISBN 978-989-8565-37-2.
8. Nita B., Serbanati L.D., *Using the Surrounding WEB Content of Pictures to Generate Candidates for Photo Annotation*, Procs of the 19th International Conference on Control Systems and Computer Science, CSCS 19, 29-31 May, 2013, ISBN: 978-1-4673-6140-8, DOI: 10.1109/CSCS.2013.13, IEEE Publ.
9. Serbanati L.D., Vasileanu A., Nita B., *Strengthening Context-Awareness of Virtual Species in Digital Ecosystems*, CSCS' 19 - The 19th International Conference on Control Systems and Computer Science, 29-31 May, 2013 Procs of the 19th International Conference on Control Systems and Computer Science, CSCS 19, 29-31 May, 2013, , ISBN: 978-1-4673-6140-8, DOI: 10.1109/CSCS.2013.79, IEEE Publ.
10. Nita B., Serbanati L.D., *Towards Context-Aware EHR-Based Healthcare Systems*, IARIA, in SERVICE COMPUTATION 2012, Nice, 2012.
11. Bodea C.N., Dascalu M.I., Serbanati L.D., *An Ontology-Alignment Based Recommendation Mechanism for Improving the Acquisition and Implementation of Managerial Training Services in Project Oriented Organizations*, Procs. of the IEEE 19th International Conference and Workshops on Engineering of Computer Based Systems (ECBS), NoviSad, Serbia, 2012, pp:257-266, ISBN: 978-1-4673-0912-7, DOI: 10.1109/ECBS.2012.14, IEEE Publ.
12. A. Vasileanu , L. D. Serbanati, M. Isaroiu, *Integrating Clinical Information from a Personal Health Record into the Virtual Health Record* , in Proc. HEALTHINF 2011, International Conference on Health Informatics, 521 – 524, Rome, 2011
13. A. Vasileanu, L.D. Serbanati: *E-Health Workflow-based Authorization using an Agent-oriented Virtual Health Care Record*, in Proc. ICAART 2011- 3rd International Conference on Agents and Artificial Intelligence : 439-442, Rome, 2011.
14. V. Rentea, F. Ricci, L. D. Serbanati, A. Vasileanu, *Supporting Adaptability in Agent-Based Digital Healthcare Ecosystems*, în COGNITIVE 2011, 2011.
15. V. Rentea, A. Vasileanu, R. Ioanitescu, L. D. Serbanati, *Software Engineering-Inspired Approach to Prevention Healthcare*, in 4th ICST International Conference on eHealth, 2011, p. 4.
16. Contenti M., Mercurio G., Ricci F.L., Serbanati L.D., *The Region-wide EHR-S in Basilicata: the LuMiR System*, Procs. The 13th Int. Congress on Medical Informatics, Cape Town, South Africa, 2010.
17. Serbanati L.D., Vasileanu A., *Multi-agent architecture for the Virtual Health Record*, in White B., Isaías P. and Andone D. (eds.) Proc.of the Conference on WWW/Internet, Timisoara, Romania, 14-17 October 2010, ISBN 978-972-8939-25-0, IADIS 2010 WWW/Internet, Timisoara, Romania, 14-17 October 2010, ISBN 978-972-8939-25-0, IADIS 2010,

18. Contenti M., Mercurio G., Ricci F.L., Serbanati L.D., Il Sistema LuMiR e la Clinical Governance, 35° Congresso Nazionale dell'Associazione Nazionale dei Medici delle Direzioni Ospedaliere, Torino, 27-30 Maggio 2009, L'Ospedale, V.03/09 (in Italian)
19. Contenti M., Mercurio G., Ricci F.L., Serbanati L.D., LUMIR: The EHR-S in the Basilicata Region, 4th Mediterranean Conference on Information Systems, Athens, Greece, 25-27 September 2009
20. M. Contenti, G. Mercurio, F. L. Ricci, L. D. Serbanati "LUMIR: A longitudinal EHR-S in the Basilicata region" – 4th MEDITERRANEAN CONFERENCE ON INFORMATION SYSTEMS "Information Society Research, Education, Policy and Practice in the Mediterranean Region" MCIS 2009, Athens (Greece) (<http://www.mcis2009.org/>)
21. Ricci F., Contenti M., Mercurio G., Serbanati L.D., " Il sistema LuMiR e la clinical governance", il 35° Congresso Nazionale A.N.M.D.O . , 27 - 30 maggio 2009, Torino.
22. Serbanati L.D., Marculescu B.M., Vasilateanu A., Belet R., Balasoiu C., Zamfira D., Supporting Continuity of Care with a Virtual Electronic Health Record, in Procs. of the 9th International HL7 Interoperability Conference, Limenas Hersonissou, Crete, Greece, oct. 2008. (http://www.hl7.org.gr/ihic2008/9o_congress/ihic_2008.html);
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24. M. Contenti, G. Mercurio, F.L. Ricci, L.D. Serbanati, *LuMiR: A Region-wide Virtual Healthcare Record*. in Procs. of the 9th International HL7 Interoperability Conference, Limenas Hersonissou, Crete, Greece, oct. 2008, 4 pag.
25. Gregorio Mercurio, Silvio Maglio, Antonella Agrusti, Giorgio De Nunzio, Rosella Cataldo, Ivan De Mitri, Marco Favetta, Andrea Massafra, Giovanni Marsella, Daniele Vergara, Michele Maffia, Andrei Vasilateanu, Luca-Dan Serbanati: Network P2P for Exploring and Visualization of Proteomic Data: Possibility of Handling Data and Analysing Them under Different Perspectives. BIOTECHNO 2008: 88-93
26. M. Contenti, G. Mercurio, F.L. Ricci, L.D. Serbanati, *The LUMIR Project: Developing the GP's Network Pilot Program in the Basilicata Region*, in Proc. ITAIS Conference, Parigi, 2008, 8 pag, also in Springer Verlag.
27. C. Bogdan, L.D. Serbanati, *Concern-oriented and ontology based analysis of information systems*, in Proc. ITAIS Conference, Parigi, 2008, 8 pag, also in Springer Verlag.
28. Bogdan C., Serbanati L. D., Shishmanian D., *Understanding Concerns with Ontologies*, The 14th International Conference on Concurrent Enterprising, Lisbon, 23-25 June 2008
29. Bogdan C., Luzi D., Ricci F.L., Serbanati L.D., *Towards an Ontology using a Concern-Oriented Approach for Information Systems Analysis*, Enterprise Interoperability II, New Challenges and Approaches, Goncalves, R.J.; Muller, J.P.; Mertins, K.; Zelm, M. (Eds.), 894 p., Hardcover, ISBN: 978-1-84628-857-9, Springer-Verlag, 2007, 4 pag.
30. C. Bogdan, D. Luzi, F.L. Ricci, L.D. Serbanati, *A Concern-Oriented and Ontology-Based Approach to Support Clinical Protocols Writing*. in Proceedings of EMMIT 2007: 3th International Conference on Euro-Mediterranean Medical Informatics and Telemedicine, 3-5 mai, Mangalia, Romania, 2007, 10 pag.
31. C. Bogdan, L.D. Serbanati, *A Concern-Oriented and Ontology-Based Approach to Constructing Facets of Information Systems*. Proceedings of ICSoft 2007: 2nd International Conference of Software Engineering and Data Technologies, Barcelona, 22-25 iulie 2007, Barcelona, Spania, 4 pag.
32. G. Mercurio, F. L. Ricci, L. D. Serbanati, "Electronic Patient Record: distributed clinical data" - BioinfoGRID Symposium 2007, Milano (http://www.bioinfogrid.eu/project-events/bioinfogrid-symposium-2007/bioinfogrid_symposium_programme_20071120.pdf)
33. C. Bogdan, L.D. Serbanati, *Toward a Concern-Oriented Analysis Method for Enterprise Information Systems*. in IEEE International Multi-Conference on Computing in the Global Information Technology (ICCGI 2006), București, Romania, IEEE Computer Society, ISBN 0-7695-2629-2, 2006, 6 pag.
34. D.M. Popovici, L.D. Serbanati, *Using mixed VR/AR technologies in education*, in IEEE International Multi-Conference on Computing in the Global Information Technology (ICCGI 2006), București, Romania, 2007.
35. Luzi D., Ricci F., Serbanati L.D., *E-Clinical Trials Supported by a Service-Oriented Architecture*, in Proc. MedNet 2006, Toronto, Oct. 2006.
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37. D. Luzi, F. L. Ricci, L. D. Serbanati, *MobiDis: An economic model to compute the costs of a clinical guideline based on Telemedicine services*, in EMMIT 2006, 2nd International Conference, Euro-Mediterranean Medical Informatics and Telemedicine, 26-28 Feb. 2006.
38. L.D. Serbanati, L. Collada Ali, P. Fazi , D. Luzi, F.L. Ricci, M. Vignetti, *Modelling Medical Research Processes in Humans to Set Up a Standard for Clinical Trial Management Systems*, eChallenges Conference e-2005, Ljubljana, 19 - 21 October 2005

39. L. Collada Ali, P. Fazi , D. Luzi, F.L. Ricci, L.D. Serbanati, M. Vignetti, *Toward a Model of Clinical Trials*, the Fifth International Symposium on Biological and Medical Data Analysis ISBMDA-2004, Barcelona, 18-19 Nov. 2004.
40. D.M.Popovici, L.D.Serbanati, S.Morvan, *Virtual Aquarium*, National Conference on Virtual Learning (Conferinta Nationala de Invatamant Virtual, CNIV2004), Bucharest 2004, pg.167-174, ISBN 973-575-947-0, obtained the Creativity Prize. (in Romanian)
41. D.M.Popovici, L.D.Serbanati, J.P.Gerval, *Agent-Based Modeling of Virtual Environments*, Proceedings of Virtual Reality International Conference (VRIC2003), Laval, France - May 13-18, 2003, pg. 149-158, ISBN: 2-9515730-2-2.
42. D.M. Popovici, L.D. Serbanati, and J.P. Gerval, *Virtual Perception Based Agents in Virtual Theater*, Proc. of Technologies for Interactive Digital Storytelling and Entertainment (TIDSE2003), 24-26 april, Darmstadt, 2003, Fraunhofer IRB Verlag, pg. 94-105, ISBN: 3-8167-6276-X.
43. D.M. Popovici, L.D. Serbanati, and F. Harrouet, *The Virtual Environment – Another Approach. Eleventh International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision'2003* (WSCG'2003) Poster Proceedings, UNION Agency - Science Press, pg. 109-112, ISBN: 80-903100-2-8, Plzen, Czech Republic, February 3-7, 2003.
44. D.M.Popovici, L.D.Serbanati, and J.P.Gerval, *Virtual Theater. Virtual Reality International Conference* (VRIC 2002), Laval, France, 2002.
45. L.D.Serbanati, *Management of Object-Oriented Software Projects, Information Society Symposium*, "Politehnica" Univ. Press, Bucharest, 2000.

Last research projects (2005-2016)

Years	Acronim	Role	Title	Program	Beneficiary
2012-13	Smart Health 2.0 ¹	consultant	Smart Health 2.0	PON R&C 2007-13	Italian Ministry of Research and University
2009-11	VEHR	research director	Virtual Electronic Healthcare Record		Italian National Research Council
2006 -08	MEDIS	software arhitect	Management of clinical trials for medical devices		Italian Health Ministry
2006-09	LUMIR ²	coordinator	Network of general practitioners and pediatrics for Basilicata Region	Network of general practitioners and pediatrics	Italian Innovation & Technology Ministry + Health Ministry
2005-08	SEM-A2B	director	Semantics-based integration of the public services supporting entrepreneurs (project coordinator was ICCI).	CEEX project	AMCSIT-Romania

¹ R & D project in the "Smart Cities and Communities and Social Innovation" programme for the Sicilian Region financed with PON European funds. The project is divided into several lines of research with the main purpose to create a technological infrastructure innovative in a cloud environment that can develop various services of high added value in healthcare and wellness.

² The project objective is to develop a distributed application according to a cloud community model that provides health organizations and professionals in the region necessary to promote collaboration services for patients' care, imposing thus the patient's central role in the health system. Integration solution is based on the citizen's Virtual Health Record, an original idea, essentially representing an internet resource that collects and manages information regarding the health of citizens of the region and provides services of querying, clinical document management and notification of all professionals that are interested in knowing significant events in their patients health .