Luciano Serafini

Curriculum Vitae

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Contact details:

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Education

Master of Information Science, University of Milan, Milan, MI 1988

- Semantica di Chang Montague per la rappresentazione della conoscenza
- final evaluation 110/110 cum laude

Current Position:

Since 2007, head of the Data and Knowledge Management (DKM), http://dkm.fbk.eu a research unit at FBK, composed of about 10 researchers, technicians and studens, doing research and projects in Knowledge acquisition, knowledge representation and integration, automated reasoning, and integration of knowledge representation and machine learning. In 2014 he has received the "abilitazione scentifica nazionale al ruolo di professore ordinario nel settore disciplinare ING-INF/05". He is currently a member of the "Gruppo di Esperti di Valutazione (GEV) 09" for the national project for the evaluation of the scientific quality (progetto di Valutazione della Qualità della Ricerca (VQR) 2011-2014). He is currently member of the "collegio docenti" of the PhD Program in Smart Computing – a joint program, one PhD degree awarded from the Universities of Florence, Pisa, and Siena

Research Interests / Research Profile

In October 1988 he joined ITC-IRST (Istituto per la Ricerca Scientifica e Technologica, now Fondazione Bruno Kessler) as a junior researcher. His research interests include artificial intelligence, logic for knowledge representation and multi agent systems, semantic web, ontologies, information integration, and automated reasoning. Luciano Serafini has published influential works in the most important international journals and conferences (his current H-index is 40). He supervises master and ph.d students and teaches the course of Mathematical Logics and Logics for Knowledge Representation and the university of Trento and at the ICT International Doctorate School of the University of Trento. The most important scientific contribution of his career is the

development of a logic of contexts called "Multi Context Systems" which has been applied in the area of formalization of multi-agent systems, information integration, semantic matching and modular ontologies. Currently, he is working in methods for integrating logical reasoning and machine learning, and the applications to the analysis of multimedia content. To improve his competence on this topic, from oct 2015 to dec 2015 he took a sabbatical period visiting the Research Centre for Machine Learning at City University London, and collaborating for the development of a new architecture that integrates neural networks and fuzzy logics.

R&D projects:

In the past, Luciano Serafini has contributed to several research and industrial projects: FACTS (1996-1999 EU project in the area of multi agent systems) DataGrid (2001-2004 - EU project with the objective of building computing infrastructure for intensive computation and analysis of shard large-scale databases), EDAMOK (2001-2004 Local project in the area of Knowledge Management) KnowledgeWeb (2005-2007, an EU Project in the area of semantic web); ONTOTEXT (2004-2007 text processing and automatic reasoning technologies to extract knowledge from texts). PATEXPERT (2006-2009 (development of an ontology based system for describing patent information) APOSDLE (2007-2010 a project in the area of semantic based long term learning), LiveMemories (2009-2011 local project in the area of automatic information extraction fro,m text using semantic resources), and other industrial projects in the area of knowledge management for electronic health, and education.

Running Projects

- **UMC (Understanding Multimedia Content)** UMC is an internally founded project that has the objective of join processing parallel multimedia content. E.e., text, aligned with video, and audio comments. The project requires the contribution and the integration of different competences and methodologies in the area of Knowledge representation and reasoning, semantic web, image and video processing, speech processing and natural language processing. The final objective of the project is to provide a system that is capable to understand and integrate all the information coming from the different media.

Recently Closed Projects

- ***PlanetData*** Since the 26 April 2012 the DKM unit is associated member of the PlanetData network of excellence. Since october 2013 DKM is main partner in the network. The PlanetData project aims to establish a sustainable European community of researchers that supports organizations in exposing their data in new and useful ways.
- ***Organic.Lingua*** is aiming to enhance an existing Web portal of OrganicEdunet with educational content on Organic Agriculture and Agroecology. introducing automated multi-lingual services that will further support the uptake of the portal from its targeted audiences, facilitate the multilingual features of the portal, and further extend its geographical and linguistic coverage. Organic.Lingua is a 36 month FP7 Pilot Tipe B EU project which wins from 1-March-1-2011 to 28-February-2014.
- ***NewsReader :: history recorder*** (EU FP7 Strep Project, January 2013 - December 2015) NewsReader will process news in 4 different languages when it comes in. It will extract what happened to whom, when and where, removing duplication, complementing information, registering inconsistencies and keeping

track of the original sources. Any new information is integrated with the past, distinguishing the new from the old and unfolding story lines in a similar way as people tend to remember the past and access knowledge and information. The difference being that NewsReader can provide access to all original sources and will not forget any details. We will develop a decision-support tool that allows professional decision-makers to explore these story lines using visual interfaces and interactions to exploit their explanatory power and their systematic structural implications.

- ***TOULISSE:*** The project is going to be accomplished by a pool of Italian companies (GH, LiberoLogico, SAYservice, Pervoice and Clesius) led by Engineering. The latter is a global player and Italy's largest systems integration group and a leader in the provision of complete integrated services throughout the software value chain. The aim of the three-years long project is to create a platform of innovative services for tourism in Trentino. The final users are not only going to be tourists but also the local hospitality industry. The role of DKM is to provide the necessary competences on semantic technologies.
- ***E-Planning*** (1 year project which local industry) The objective of E-Planning project is to develop a decision support system to help teachers of primary school in the creation of personal training plans for children in the primary school. In the project DKM will exploit ontologies, semantic technologies and automated reasoning techniques.
- **SICRAS:** (3 year industrial project) The Sicras project has the main objective to support investigation of tax evasion starting from heterogenous and diverse data sources. Data sources might come from official organizations as well as form social network and web resources in general. Within this project Luciano Serafini is contributing to the design and the implementation of a mixed tax reasoner, that starting from heterogeneous data sources, represented as RDF graphs, detects candidate tax evaders using a suitable combination of logical rule based reasoning in combination with statistical reasoning

- ***ProMo*** This is an industrial project done in collaboration with SayService a FBK spin off. This project aims at the development of a platform that supports the collaborative modelling (via MoKi) of the processes, the structure, the actors, and the artifacts of a complex organization, the grounding of the objects in the abstract model to the technological layer of the organization (using the ASTRO platform) and the support for monitoring the process execution. ProMo is a FESR project founded by the province of Trento running from 1-1-2012 to 31-6-2013.
- ***PESCaDO*** aims to meet the increasing need for the orchestration of environmental services spread across the Web in order to provide users with personalised decision support or tailored environmental information. It will offer an interconnected multipurpose environmental user-oriented service for a federated community of citizens, public services (such as tourist offices and environmental institutions), public administrations, and entrepreneurs active in sectors sensitive to environmental conditions. PESCaDO is a 36 month FP7 EU project which runs from 1-January-2010 to 31-December-2012.
- ***SuperProf for E-VALUE*** is an industrial project with a local company, Centro Studi Erickson, aimed at creating the decision support system for managing educational materials focused on learning difficulties and remediation activities.
- ***ProDe (Progetto Interregionale Dematerializzazione*** ProDe is a national interregional project with main objective of defining of a reference model shared by all the Italian regions, which constitute the basis for the digitalization of all the

public administration procedure. The main contribution of DKM within the ProDe project is the support for the construction of the formal models for a subset of public procedures of the Trentino region.

- TreC: Cartella Clinica del Cittadino [2010-2011] funded by the Department of Health and the Department of Research and Innovation of the Autonomous Province of Trento and aiming to design, develop, test the usability and evaluate on-field the impact of a Personal Health Record in the Province of Trento
- ***eOnco*** [2009-2011] This project, done in collaboration with the eHealth, and I3 research unit at FBK-IRST, has the main objective of supporting knowledge intensive management of cure process in Oncology.
- ***Copilosk*** [2009-2011] stands for Content Processing by Integrating Logical and Statistical Knowledge. This is a FBK-IRST Joint Research Project in the area of *Future Internet - Internet of Content*, that involves the research units on Data and Knowledge management Human Language Technology and Technology for Vision . Humans solve the problems of interpreting multimedia documentation by both exploiting structural regularities in the data, as well as making use of common sense and specialized knowledge that explicitly represents the meaning of data. This project aims to investigate how statistical and logical knowledge can be combined and exploited in content and knowledge management, by proposing or extending a theoretical paradigm, test it in three use cases in the area of machine translation, content extraction from text, and image object recognition. Copilosk is an FBK-IRST Joint Research Project in the area of *Future Internet - Internet of Content*.

Publications

Luciano Serafini has published more than 170 article in peer reviewed international journal, conferences and workshops. A selection of his most influential and cited publications follows;

Logics of Contexts and Multi-Context systems

1. Fausto Giunchiglia, Luciano Serafini Multilanguage Hierarchical Logics or: How we can do Without Modal Logics in ARTIFICIAL INTELLIGENCE, Elsevier, vol. 65, 1994, pp. 29 - 70
2. Chiara Ghidini, Luciano Serafini Distributed First Order Logics, in Frontiers of Combining Systems, Second International Symposium (FroCos 1998), 2000, pp. 121 - 139 (Frontiers of Combining Systems, Second International Symposium (FroCos 1998) 1998
3. Giovanni Criscuolo, Fausto Giunchiglia, Luciano Serafini: A Foundation for Metareasoning Part I: The Proof Theory. J. Log. Comput. 12(1): 167-208 (2002)
4. Giovanni Criscuolo, Fausto Giunchiglia, Luciano Serafini: A Foundation for Metareasoning Part II: The Model Theory. J. Log. Comput. 12(3): 345-370 (2002)
5. Antonia Donà, Luciano Serafini: Updating Contexts. KR 2002: 251-264
6. Luciano Serafini, Paolo Bouquet: Comparing formal theories of context in AI. Artif. Intell. 155(1-2): 41-67 (2004)\
7. Luciano Serafini, Martin Homola: Contextualized knowledge repositories for the Semantic Web. J. Web Sem. 12: 64-87 (2012)
8. Gerhard Brewka, Floris Roelofsen, Luciano Serafini: Contextual Default Reasoning. IJCAI 2007: 268-273

9. Floris Roelofsen, Luciano Serafini: Minimal and Absent Information in Contexts. IJCAI 2005: 558-563
10. Loris Bozzato, Thomas Eiter, Luciano Serafini: Contextualized Knowledge Repositories with Justifiable Exceptions. Description Logics 2014: 112-123
11. Loris Bozzato, Luciano Serafini: Combining Reasoning on Semantic Web Metadata. ECAI 2014: 979-980
12. Loris Bozzato, Chiara Ghidini, Luciano Serafini: Comparing contextual and flat representations of knowledge: a concrete case about football data. K-CAP 2013: 9-16
13. Mathew Joseph, Gabriel M. Kuper, Till Mossakowski, Luciano Serafini: Query answering over contextualized RDF/OWL knowledge with forall-existential bridge rules: Decidable finite extension classes. Semantic Web 7(1): 25-61 (2016)

Heterogeneous knowledge integration and semantic web

14. P. Bouquet, F. Giunchiglia, H. F. van Harmelen, L. Serafini, H. Stuckenschmidt Contextualizing Ontologies in JOURNAL OF WEB SEMANTICS, vol. , 2004, pp. 325 – 343
15. Phil Bernstein, Fausto Giunchiglia, A. Kementsietsidis, John Mylopoulos, Luciano Serafini, Ilya Zaihrayeu Data Management for Peer-to-Peer Computing: A Vision, in Fifth International Workshop on the Web and Databases [WebDB 2002], 2002 (Fifth International Workshop on the Web and Databases [WebDB 2002], Madison, USA) 2002
16. Alex Borgida, Luciano Serafini, Distributed Description Logics: Assimilating Information from Peer Sources, in Journal on Data Semantics I, Springer, vol. 2800, 2003, pp. 153 - 184
17. Paolo Bouquet, Luciano Serafini, Stefano Zanobini Semantic Coordination: A New Approach and an Application, in The Semantic Web - ISWC 2003. Proceedings of the Second International Semantic Web Conference, Springer, vol. 2870, 2003, pp. 130 - 145 (The Semantic Web - ISWC 2003. Proceedings of the Second International Semantic Web Conference,) 2003
18. L. Serafini, A. Tamilin DRAGO: Distributed Reasoning Architecture for the Semantic Web, in 2nd Annual European Semantic Web Conference (ESWC2005), Springer, vol. 3532, 2005, pp. 361 - 376 (2nd Annual European Semantic Web Conference (ESWC2005), Heraklion, Greece) 2005
19. Paolo Bouquet, Jérôme Euzenat, Enrico Franconi, Luciano Serafini, Giorgos Stamou and Sergio Tessaris, Specification of a common framework for characterizing alignment, Proc. of the 1st International Workshop on Peer-to-Peer Knowledge Management (P2PKM'04), 2004
20. Manuel Atencia, Alexander Borgida, Jérôme Euzenat, Chiara Ghidini, Luciano Serafini: A Formal Semantics for Weighted Ontology Mappings. International Semantic Web Conference (1) 2012: 17-33
21. Szymon Klarman, Stefan Schlobach, Luciano Serafini: Formal Verification of Data Provenance Records. International Semantic Web Conference (1) 2012: 215-230
22. Paolo Bouquet, Chiara Ghidini, Luciano Serafini: Querying the Web of Data: A Formal Approach. ASWC 2009: 291-305
23. Luciano Serafini, Martin Homola: Modular Knowledge Representation and Reasoning in the Semantic Web. Semantic Web Information Management 2009: 147-181

24. Saartje Brockmans, Peter Haase, Luciano Serafini, Heiner Stuckenschmidt: Formal and Conceptual Comparison of Ontology Mapping Languages. Modular Ontologies 2009: 267-291
25. Chiara Ghidini, Luciano Serafini, Sergio Tessaris: Complexity of Reasoning With Expressive Ontology Mappings. FOIS 2008: 151-163
26. Chiara Ghidini, Luciano Serafini, Sergio Tessaris: On Relating Heterogeneous Elements from Different Ontologies. CONTEXT 2007: 234-247
27. Luciano Serafini, Andrei Tamilin: Instance Migration in Heterogeneous Ontology Environments. ISWC/ASWC 2007: 452-465
28. Paolo Bouquet, Luciano Serafini, Stefano Zanobini, Simone Sceffer: Bootstrapping semantics on the web: meaning elicitation from schemas. WWW 2006: 505-512
29. Luciano Serafini, Heiner Stuckenschmidt, Holger Wache: A Formal Investigation of Mapping Languages for Terminological Knowledge. BNAIC 2005: 379-380
30. Luciano Serafini, Alexander Borgida, Andrei Tamilin: Aspects of Distributed and Modular Ontology Reasoning. IJCAI 2005: 570-575
31. Luciano Serafini, Heiner Stuckenschmidt, Holger Wache: A Formal Investigation of Mapping Language for Terminological Knowledge. IJCAI 2005: 576-581
32. Paolo Bouquet, Luciano Serafini, Stefano Zanobini: Peer-to-peer semantic coordination. J. Web Sem. 2(1): 81-97 (2004)
33. Luciano Serafini, Andrei Tamilin: Local Tableaux for Reasoning in Distributed Description Logics. Description Logics 2004
34. Alexander Borgida, Luciano Serafini: Distributed Description Logics: Assimilating Information from Peer Sources. J. Data Semantics 1: 153-184 (2003)
35. Paolo Bouquet, Luciano Serafini, Stefano Zanobini: Semantic Coordination: A New Approach and an Application. International Semantic Web Conference 2003: 130-145
36. Philip A. Bernstein, Fausto Giunchiglia, Anastasios Kementsietsidis, John Mylopoulos, Luciano Serafini, Ilya Zaihrayeu: Data Management for Peer-to-Peer Computing : A Vision. WebDB 2002: 89-94

MultiAgent Systems and web services composition

37. Massimo Benerecetti, Fausto Giunchiglia, Luciano Serafini: Model Checking Multiagent Systems. J. Log. Comput. 8(3): 401-423 (1998)
38. Aldo Franco Dragoni, Paolo Giorgini, Luciano Serafini: Mental States Recognition from Communication. J. Log. Comput. 12(1): 119-136 (2002)
39. Marco Aiello, Paolo Busetta, Antonia Donà, Luciano Serafini: Ontological Overhearing. ATAL 2001: 175-189
40. Paolo Busetta, Luciano Serafini, Dhirendra Singh, Floriano Zini: Extending Multi-agent Cooperation by Overhearing. CoopIS 2001: 40-52
41. Luciano Serafini, Chiara Ghidini: Using Wrapper Agents to Answer Queries in Distributed Information Systems. ICMAS 2000: 429-430
42. Alessandro Cimatti, Luciano Serafini: Multiagent Reasoning with Belief Contexts II: Elaboration Tolerance. ICMAS 1995: 57-64

43. Fausto Giunchiglia, Luciano Serafini, Enrico Giunchiglia, Marcello Frixione: Non-Omniscient Belief as Context-Based Resoning. IJCAI 1993: 548-554
44. Fausto Giunchiglia, Luciano Serafini: Mulitlanguage First Order Theories of Propositional Attitudes. SCAI 1991: 228-240
45. David G. Cameron, Rubén Carvajal-Schiaffino, Caitriana Nicholson, Kurt Stockinger, Floriano Zini, A. Paul Millar, Luciano Serafini: Formal analysis of an agent-based optimisation strategy for Data Grids. Multiagent and Grid Systems 2(2): 149-162 (2006)
46. Alexandre Albore, Natasha Alechina, Piergiorgio Bertoli, Chiara Ghidini, Brian Logan, Luciano Serafini: Model-Checking Memory Requirements of Resource-Bounded Reasoners. AAAI 2006: 213-218

Quantum computing

47. Stefano Bettelli, Tommaso Calarco, Luciano Serafini, Toward an architecture for quantum programming, in «THE EUROPEAN PHYSICAL JOURNAL. D, ATOMIC, MOLECULAR AND OPTICAL PHYSICS», vol. 25, 2003, pp. 181-200

Modelling and Ontology engineering

48. Marco Rospocher, Chiara Ghidini, Luciano Serafini: An ontology for the Business Process Modelling Notation. FOIS 2014: 133-146
49. Marco Rospocher, Sara Tonelli, Luciano Serafini, Emanuele Pianta: Corpus-based terminological evaluation of ontologies. Applied Ontology 7(4): 429-448 (2012)
50. Chiara Ghidini, Chiara Di Francescomarino, Marco Rospocher, Paolo Tonella, Luciano Serafini: Semantics-Based Aspect-Oriented Management of Exceptional Flows in Business Processes. IEEE Transactions on Systems, Man, and Cybernetics, Part C 42(1): 25-37 (2012)
51. Marco Rospocher, Sara Tonelli, Luciano Serafini, Emanuele Pianta: Key-Concept Extraction for Ontology Engineering. EKAW 2012: 413-416
52. Chiara Di Francescomarino, Chiara Ghidini, Marco Rospocher, Luciano Serafini, Paolo Tonella: A framework for the collaborative specification of semantically annotated business processes. Journal of Software Maintenance 23(4): 261-295 (2011)
53. Marco Rospocher, Chiara Ghidini, Viktoria Pammer, Luciano Serafini, Stefanie N. Lindstaedt: MoKi: the Modelling wiKi. SemWiki 2009
54. Conny Christl, Chiara Ghidini, Joanna Guss, Stefanie N. Lindstaedt, Viktoria Pammer, Marco Rospocher, Peter Scheir, Luciano Serafini: Deploying Semantic Web Technologies for Work Integrated Learning in Industry - A Comparison: SME vs. Large Sized Company. International Semantic Web Conference 2008: 709-722

Semantics web and multimedia understanding

55. Donadello Ivan, Serafini Luciano: Integration of numeric and symbolic information for semantic image interpretation. Intelligenza Artificiale 10 (1), 33-47
56. Donadello, Ivan; Serafini, Luciano, Mixing Low-Level and Semantic Features for Image Interpretation, Computer Vision - ECCV 2014 Workshops, Proceedings, Part II, vol.8926, 2015, pp. 283-298.

57. Piek Vossen, German Rigau, Luciano Serafini, Pim Stouten, Francis Irving, Willem Robert van Hage: NewsReader: recording history from daily news streams. LREC 2014
58. Daniil Mirylenka, Andrea Passerini, Luciano Serafini: Bootstrapping Domain Ontologies from Wikipedia: A Uniform Approach. IJCAI 2015: 1464-147
59. Francesco Corcoglioniti, Marco Rospocher, Roldano Cattoni, Bernardo Magnini, Luciano Serafini: The KnowledgeStore: A Storage Framework for Interlinking Unstructured and Structured Knowledge. Int. J. Semantic Web Inf. Syst. 11(2): 1-35 (2015)
60. Francesco Corcoglioniti, Marco Rospocher, Roldano Cattoni, Bernardo Magnini, Luciano Serafini: Interlinking Unstructured and Structured Knowledge in an Integrated Framework. ICSC 2013: 40-47
61. Marieke van Erp, Antske Fokkens, Piek Vossen, Sara Tonelli, Willem Robert van Hage, Luciano Serafini, Rachele Sprugnoli, Jesper Hoeksema: Denoting Data in the Grounded Annotation Framework. International Semantic Web Conference (Posters & Demos) 2013: 189-192
62. Volha Bryl, Sara Tonelli, Claudio Giuliano, Luciano Serafini: A novel Framenet-based resource for the semantic web. ACM-SAC 2012: 360-365
63. Mark Giereth, Steffen Koch, Yiannis Kompatsiaris, Symeon Papadopoulos, Emanuele Pianta, Luciano Serafini, Leo Wanner: A Modular Framework for Ontology-based Representation of Patent Information. JURIX 2007: 49-58

Integration of logical and statistical reasoning

64. Marco Rospocher, Luciano Serafini: An Ontological Framework for Decision Support. JIST 2012: 239-254
65. Claudia d'Amato, Volha Bryl, Luciano Serafini: Semantic Knowledge Discovery from Heterogeneous Data Sources. EKAW 2012: 26-31
66. Sara Tonelli, Volha Bryl, Claudio Giuliano, Luciano Serafini: Investigating the Semantics of Frame Elements. EKAW 2012: 130-143
67. Claudia d'Amato, Volha Bryl, Luciano Serafini: Data-Driven Logical Reasoning. URSW 2012: 51-62
68. Volha Bryl, Claudio Giuliano, Luciano Serafini, Kateryna Tymoshenko: Using Background Knowledge to Support Coreference Resolution. ECAI 2010: 759-764
69. Volha Bryl, Claudio Giuliano, Luciano Serafini, Kateryna Tymoshenko: Supporting Natural Language Processing with Background Knowledge: Coreference Resolution Case. International Semantic Web Conference (1) 2010: 80-95

Teaching Experience

Luciano Serafini has been lecturer of several courses in logics for knowledge representation at the university of Trento and University of Bolzano, and teaching assistant in courses of databases and information system at University of Trento. He also taught a course on Ontological engineering and semantic web at private companies.

Research Supervision

Luciano Serafini has supervised 9 Ph.D students and more than 15 master students in various areas of knowledge representation, reasoning, ontology engineering, multimedia

semantic processing, medical ontologies, knowledge management, and architectures for quantum computing

Scientific Activities:

Recent program committee members and program chairs

1. Local Co-Chair of the 13th International Semantic Web Conference – Riva del Garda Oct 2014
2. Co-Chair of the of the track "Reasoning" of the ESWC 2013. Extended Semantic Web Conference 2013.
3. Co-Chair of the Logic and computation section of the 28th European Summer School in Logic, Language and Information, 2016
4. Co-Chair of the NeSy'16. 11th International Workshop on Neural-Symbolic Learning and Reasoning
5. PC member of the Tenth International and Interdisciplinary Conference on Modeling and Using Context, 2017
6. PC member of the Thirtieth AAAI Conference on Artificial Intelligence, 2016
7. PC member of the 20th International Conference on Knowledge Engineering and Knowledge Management. 2016
8. PC member of the 13th Extended Semantic Web Conference, 2016
9. PC member of the 9th International Conference on Formal Ontology in Information Systems. 2016
10. PC member of the 25th International Joint Conference on Artificial Intelligence. 2016
11. PC member of the 15th International Conference on Principles of Knowledge Representation and Reasoning, 2016
12. PC member of the12th International Conference on Semantic Systems. 2016
13. PC member of the 12th International Workshop on Uncertainty Reasoning for the Semantic Web. 2016
14. PC member of 16 international conferences and workshop in 2015
15. PC member of about 20 international conference and workshops in 2014

Invited speaker

In the last years Luciano Serafini has been invited to give the following presentations

1. Invited Speaker at WoMO 2012, the 6th International Workshop on Modular Ontologies.
2. Invited Speaker at ARCOE 2012 The 4th International Workshop on Acquisition, Representation and Reasoning with Contextualized Knowledge
3. Invited speaker at the workshop on Uncertain Reasoning for the Semantic Web at the 13th International Semantic Web Conference (2014)

Trento, 14 June 2016

Luciano Serafini

Signed in original