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Short Bio

I am a Full Professor at the Department of Engineering "Enzo Ferrari" at the University of Modena and Reggio Emilia, where I teach Software Engineering and Big Data Analysis. My research interests include scalable data management and integration, with a focus on developing explainable Machine Learning and Deep Learning techniques for the Entity Resolution problem. I also work on data mining and analytics on big data, exploring techniques for anomaly and novelty detection to support machine learning in production. Additionally, I am involved in projects related to the semantic web, particularly in the creation and alignment of ontologies, and keyword-based searches on structured datasets.

I have participated in numerous European and national projects. Notably, I coordinated the KEYSTONE COST Action (IC 1302 KEYSTONE COST Action – Semantic Keyword Search on Structured Data Sources) from 2013 to 2017, and the Research Alps project (INEA/CEF/ICT/A2016/1296967) from 2017 to 2019. In 2019, I served as a Visiting Professor at the University of Rijeka, and from 2022 to 2024, I am a visiting reviewer for AI theses at the University of Malta.

Academic Positions

- Since February 2024: Rector's Delegate to ICT, University of Modena and Reggio Emilia
- Since November 2022: President of the Bachelor's and Master's Degree Course Councils in Computer Engineering, Department of Engineering "Enzo Ferrari"
- Since September 2022: Full Professor, Department of Engineering "Enzo Ferrari," University of Modena and Reggio Emilia (teaching Software Engineering and Big Data Analysis)
- 2021-2023: Coordinator of the Computer Engineering and Science Curriculum, Doctorate Course in ICT, University of Modena and Reggio Emilia

Education

- Ph.D. in Information Engineering (2004), University of Modena and Reggio Emilia, Italy
- Master's Degree in Information Engineering (2000), University of Modena and Reggio Emilia, Italy
- Diploma di Maturità Classica (1992), Liceo Classico "L. A. Muratori," Modena, Italy

Publications

Journals (RI) and Chapters in Books (CLI)

[RI1] S. Bergamaschi, G. Cabri, F. Guerra, L. Leonardi, M. Vincini, F. Zambonelli, **MOMIS: Exploiting Agents to Support Information Integration**, Special Issue of the International Journal on Cooperative Information Systems vol. 11(3-4): 293-314, 2002, ISSN 0218-8430

[RI2] I. Benetti, D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini, **An Information Integration Framework for E-Commerce**, IEEE Intelligent Systems Magazine, January/February 2002, pp. 18-25, ISSN 1541-1672

- [RI3] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini, **Synthesizing an Integrated Ontology**, IEEE Internet Computer, September-October 2003, 42-51, ISSN 1089-7801
- [RI4] I. Benetti, S. Bergamaschi, F. Guerra, M. Vincini, **Soap-enabled web services for knowledge management** Int. J. Web Engineering and Technology, Vol. 1. N. 2, pp. 218-235, InderScience Publishers, 2004. ISSN: 1476-1289.
- [RI5] D. Beneventano, F. Guerra, S. Magnani, M. Vincini, **A Web Service based framework for the semantic mapping between product classification schemas**, in Journal of Electronic Commerce Research vol. 5(2) pp 114-127, ISSN 15266133, 2004.
- [RI6] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini, **Building a Tourism Information Provider with the MOMIS System**, Information Technology & Tourism Journal (ISSN 1098-3058), 7:3-4, pp. 221-238, 2005.
- [RI7] S. Bergamaschi, G. Gelati, F. Guerra, M. Vincini: "**An Intelligent Data Integration Approach for Collaborative Project Management in Virtual Enterprises**", World Wide Web: Internet and Web Information Systems, Volume 9 Issue 5 (March 2006), pp. 35-61, Kluwer Academic Publishers, ISSN:1386-145X, DOI: 10.1007/s11280-005-2322-7
- [RI8] S. Bergamaschi, P. Bouquet, D. Giacomuzzi, F. Guerra, L. Po, M. Vincini : "**Melis: an incremental method for the lexical annotation of domain ontologies** ", International Journal on Semantic Web and Information Systems, 3(3), 57-80, July-September 2007, ISSN: 1552-6283.
- [RI9] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori: "**Extracting Relevant Attribute Values for Improved Search** ", IEEE Internet Computer, September-October 2007, 26-35, ISSN 1089-7801.
- [RI10] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini, **The SEWASIE Network of Mediator Agents for Semantic Search**, Special Issue on Ontologies and their Applications of the Journal of Universal Computer Science (J.UCS), Vol. 13, No. 12, 2007 pp. 1936-1969 ISSN: 0948-695X.
- [RI11] S. Bergamaschi, E. Domnori, F. Guerra, M. Orsini, R. Trillo Lado, Y. Velegrakis: **Keymantic: Semantic Keyword-based Searching in Data Integration Systems**. PVLDB 3(2): 1637-1640 (2010), ISSN 2150-8097
- [RI12] S. Bergamaschi, F. Guerra, B. Leiba: **Information Overload**. ", IEEE Internet Computing, November-December 2010, 10-13 ISSN 1089-7801
- [RI13] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori, M. Vincini: **A semantic approach to ETL technologies**. Data Knowl. Eng. 70(8): 717-731 (2011) ISSN 0169-023X
- [RI14] M. Palmonari, A. Sala, A. Maurino, F. Guerra, G. Pasi, G. Frisoni: **Aggregated search of data and services**. Information Systems 36(2): 134-150 (2011), Elsevier. ISSN: 03064379
- [RI15] S. Bergamaschi, F. Guerra, M. Interlandi, R. Trillo Lado, Y. Velegrakis: **QUEST: A Keyword Search System for Relational Data based on Semantic and Machine Learning Techniques**. PVLDB 6(12) (2013), ISSN 2150-8097
- [RI16] F. Guerra, G. Simonini, M. Vincini: **Supporting Image Search with Tag Clouds: a Preliminary Approach**, in Advances in Multimedia, Hindawi, 2015
- [RI17] S. Bergamaschi, F. Guerra, M. Interlandi, R. Trillo Lado, Y. Velegrakis: **Combining user and database perspective for solving keyword queries over relational databases**. Inf. Syst. 55: 1-19 (2016)
- [RI18] S. Bergamaschi, N. Ferro, F. Guerra, G. Silvello: **Keyword-based Search over Databases: A Roadmap for a Reference Architecture Paired with an Evaluation Framework**. LNCS Transactions on Computational Collective Intelligence, LNCS 9630, 2016
- [RI19] E. Sartori, Y. Velegrakis, F. Guerra: **Entity-based Keyword Search in Web Document**. LNCS Transactions on Computational Collective Intelligence, LNCS 9630, 2016

- [RI20] S. Bergamaschi, D. Ferrari, F. Guerra, G. Simonini, Y. Velegrakis: **Providing Insight into Data Source Topics**. J. Data Semantics 5(4): 211-228 (2016)
- [RI21] S. Cadegnan, F. Guerra, S. Ilarri, M. Rodríguez-Hernández, R. Trillo Lado, Y. Velegrakis, R. Amaro: **Exploiting Linguistic Analysis on URLs for Recommending Web Pages: A Comparative Study**. Trans. Computational Collective Intelligence 26: 26-45 (2017)
- [RI22] M. Paganelli, Domenico Beneventano, F. Guerra, P. Sottovia: **Parallelizing Computations of Full Disjunctions**. Big Data Research 17: 18-31 (2019)
- [RI23] M. Paganelli, P. Sottovia, A. Maccioni, M. Interlandi, F. Guerra: **Explaining data with descriptions**. Inf. Syst. 92: 101549 (2020)
- [RI24] K. Babić, F. Guerra, S. Martinčić-Ipšić, A. Meštrović: **A Comparison of Approaches for Measuring the Semantic Similarity of Short Texts Based on Word Embeddings**. Journal of Information and Organizational Sciences: 44(2) (2020)
- [RI25] F. Del Buono, F. Calabrese, A. Baraldi, M. Paganelli, F. Guerra: **Novelty Detection with Autoencoders for System Health Monitoring in Industrial Environments**. Applied Sciences (Switzerland), 2022, 12(10), 4931
- [RI26] M. Paganelli, F. Del Buono, A. Baraldi, F. Guerra: **Analyzing How BERT Performs Entity Matching**. Proc. VLDB Endow. 15(8): 1726-1738 (2022)
- [RI27] A. Bonifati, F. Del Buono, F. Guerra, D. Tiano: **Time2Feat: Learning Interpretable Representations for Multivariate Time Series Clustering**. Proc. VLDB Endow. 16(2): 193-201 (2022)
- [RI28] F. Del Buono, G. Faggioli, M. Paganelli, A. Baraldi, F. Guerra, N. Ferro. **A Framework to Evaluate the Quality of Integrated Datasets**. SIGAPP Appl. Comput. Rev. 22, 4 (2022), 5–23. <https://doi.org/10.1145/3584014.3584015>
- [RI30] M. Paganelli, P. Sottovia, K. Park, M. Interlandi, F. Guerra: **Pushing ML Predictions Into DBMSs**. IEEE Trans. Knowl. Data Eng. 35(10): 10295-10308 (2023)
- [RI31] A. Bonifati, F. Del Buono, F. Guerra, M. Lombardi, D. Tiano: **Interpretable Clustering of Multivariate Time Series with Time2Feat**. Proc. VLDB Endow. 16(12): 3994-3997 (2023)
- [CLI1] D. Beneventano, S. Bergamaschi, J. Gelati, F. Guerra, M. Vincini: **MIKS: an agent framework supporting information access and integration**, in Intelligent Information Agents - The AgentLink Perspective, (editors: S. Bergamaschi, M. Klusch, P. Edwards, P. Petta) - March 2003, Lecture Notes in Computer Science N. 2586 - Springer Verlag, pp. 22-49 ISSN 0302-9743 ISBN 3-540-00759-8
- [CLI2] D. Beneventano, S. Bergamaschi, F. Guerra, M. Orsini: **Data Integration**, in Handbook of Conceptual Modeling (editors S: D. W. Embley, B. Thalheim), Springer, 2011 ISBN 978-3-642-15864-3
- [CLI3] S. Bergamaschi, E. Domnori, F. Guerra, S. Rota, R. Trillo Lado, and Y. Velegrakis: **“Understanding the Semantics of Keyword Queries on Relational Data Without Accessing the Instance”** in “Semantic Search over the Web”, Springer, ISBN 978-3-642-25007-1, (2012).
- [CLI4] S. Bergamaschi, D. Beneventano, F. Mandreoli, R. Martoglia, F. Guerra, M. Orsini, L. Po, M. Vincini, G. Simonini, S. Zhu, Luca Gagliardelli, L. Magnotta: **From Data Integration to Big Data Integration**. A Comprehensive Guide Through the Italian Database Research 2018: 43-59

Italian Journals (RN)

[RN1] G. Gelati, F. Guerra, M. Vincini, **Agents Supporting Information Integration: the MIKS Framework**, AI*IA Notizie, Periodico dell'Associazione Italiana per l'Intelligenza Artificiale, AnnoXIV, N.4, Dicembre 2001

International Conferences / workshops (CI)

[CI1] D. Beneventano, S. Bergamaschi, I. Benetti, A. Corni, F. Guerra, G. Malvezzi, **SI-Designer: a tool for intelligent integration of information**, 34th Annual Hawaii International Conference on System Sciences (HICSS-34), January 3-6, 2001, Maui, Hawaii - Track 9. IEEE Computer Society

[CI2] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini, **The Momis approach to Information Integration**, IEEE and AAAI International Conference on Enterprise Information Systems (ICEIS01), Setúbal, Portugal, 7-10 July 2001, pp.194-198, ISBN 972-98050-2-4

[CI3] I. Benetti, D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini, **SI-Designer: an Integration Framework for E-Commerce**, IJCAI*01 Workshop on E-Business & the Intelligent Web Seattle, USA * August 5 2001

[CI4] S. Bergamaschi, G. Cabri, F. Guerra, L. Leonardi, M. Vincini, F. Zambonelli, **Supporting information integration with autonomous agents**, Fifth International Workshop CIA-2001 on COOPERATIVE INFORMATION AGENTS September 6 - 8, 2001 Modena, Italy pp, 88-99.

[CI5] D. Calvanese, S. Castano, F. Guerra, D. Lembo, M. Melchiori, G. Terracina, D. Ursino, M. Vincini, **Towards a comprehensive methodological framework for integration**, 8th International Workshop on Knowledge Representation meets Databases (KRDB-2001), Roma, Italy, September 15, 2001

[CI6] S. Bergamaschi, F. Guerra, M. Vincini, **A Data Integration Framework for E-commerce product classification**, 1st International Semantic Web Conference (ISWC2002), Sardegna, Italy, 9-12 June 2002, Lecture Notes in Computer Science 2342 Springer 2002, pp. 379-393, ISBN 3-540-43760-6

[CI7] S. Bergamaschi, F. Guerra, **Peer to Peer Paradigm for a Semantic Search Engine**, in proceedings of the International Workshop on Agents and Peer-to-Peer Computing, Bologna, 15 July 2002, LNCS 2530, Springer ISBN 3-540-40538-0

[CI8] S. Bergamaschi, F. Guerra, M. Vincini, **Product Classification Integration for E-Commerce**, Second International Workshop on Electronic Business Hubs - WEBH 2002 in conjunction with DEXA 2002, September 2-6 2002, Aix En Provence, France, published by IEEE Computer Society, Los Alanitos (CA), ISBN 0-7695-1668-8, pp. 861-867

[CI9] D. Beneventano, S. Bergamaschi, S. Castano, V. De Antonellis, A. Ferrara, F. Guerra, F. Mandreoli, G. Ornetti, M. Vincini, **Semantic Integration and Query Optimization of Heterogeneous Data Sources**, First International Workshop on Efficient Web-based Information Systems (EWIS), September 2 2002, Montpellier, France, pp.154-165.

[CI10] S. Bergamaschi, F. Guerra, M. Vincini, **A peer-to-peer information system for the semantic web**, in proceedings of the International Workshop on Agents and Peer-to-Peer Computing, held in AAMAS 2003 International Conference on Autonomous Agents and MultiAgent Systems Melbourne, Australia, July 14, 2003

[CI11] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini: **Building an Ontology with MOMIS**, in proceedings of the Semantic Integration Workshop within the Second International Semantic Web Conference (ISWC 2003), Monday, October 20, 2003 Sundial Resort, Sanibel Island, Florida, USA.

- [CI12] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini, **Building an integrated Ontology within SEWASIE system**, in proceedings of the First International Workshop on Semantic Web and Databases, Co-located with VLDB 2003 Berlin, Germany, September 7-8, 2003
- [CI13] S. Bergamaschi, G. Gelati, F. Guerra, M. Vincini, **WINK: a Web-based Enterprise System for Collaborative Project Management in Virtual Enterprises**, 4th International Conference on Web Information Systems Engineering, Roma, Italy, 10-12 December 2003
- [CI14] R. Benassi, D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini: "**Synthesizing an Integrated Ontology with MOMIS**", International Conference on Knowledge Engineering and Decision Support (ICKEDS). Porto, Portugal, 21-23 July 2004
- [CI15] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini: "**Querying a super-peer in a schema-based super-peer network**", In proceedings of the 3rd International Workshop on Databases, Information Systems and Peer-to-Peer Computing (DBISP2P 2005) held at VLDB 2005 31st International Conference on Very Large Data Bases, Trondheim, Norway, August 28-29, 2005
- [CI16] D. Beneventano, S. Bergamaschi, S. Bruschi, F. Guerra, M. Orsini, M. Vincini: "**Instances navigation for querying integrated data from web-sites**", In proceedings of the International Conference on Web Information Systems and Technologies, Setubal, Portugal, April 11-13, (pp. 46-53). ISBN: 978-972-8865-46-7, 2006 (revised selected paper published in Joaquim Filipe, José Cordeiro, Vitor Pedrosa (Eds.): Web Information Systems and Technologies, International Conferences, WEBIST 2005 and WEBIST 2006. Revised Selected Papers. Lecture Notes in Business Information Processing 1 Springer 2007, ISBN 3-540-32301-5, 978-3-540-74062-9, pag 125-137)
- [CI17] F. Guerra: "**Using Balanced Scorecards for supporting participations in Public Administrations**", In proceedings of the IADIS International Conference e-Society 2006, Dublin, Ireland, July 13-16, 2006 (p.p. 265-272). ISBN: 972-8924-16-X
- [CI18] S. Bergamaschi, P. Bouquet, D. Giacomuzzi, F. Guerra, L. Po, M. Vincini: "**MELIS An Incremental Method For The Lexical Annotation Of Domain Ontologies**", In proceedings of the third International Conference on Web Information Systems and Technologies, Barcelona/Spain, 2007
- [CI19] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori: "**Relevant values: new metadata to provide insight on attribute values at schema level**", In proceedings of the 9th International Conference on Enterprise Information Systems, Funchal, Madeira – Portugal, 12-16, June 2007 (p.p. 274-279). ISBN 978-972-8865-88-7
- [CI20] M. Palmonari, F. Guerra, A. Turati, A. Maurino, D. Beneventano, E. Della Valle, A. Sala, D. Cerizza: "**Toward a Unified View of Data and Services**", In proceedings of the first International International Workshop on Semantic Data and Service Integration, Co-located with VLDB 2007, Vienna, Austria. September 23, 2007
- [CI21] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini: "**The SEWASIE MAS for Semantic Search**", First International Workshop on Agent supported Cooperative Work (ACW 2007) In conjunction with the Second IEEE International Conference on Digital Information Management (ICDIM 2007), October, 2007, Lyon, France, (p.p. 793-798). ISBN 1-4244-1476-8
- [CI22] D. Beneventano, C. Gennaro, F. Guerra: "**A Methodology for Building and Querying an Ontology representing Data and Multimedia Sources**", 4th ODBIS Workshop on Ontologies-based Techniques for DataBases in Information Systems and Knowledge Systems Co-located with VLDB 2008 - August, 23rd, Auckland, New Zealand
- [CI23] D. Beneventano, S. Bergamaschi, C. Gennaro, F. Guerra, M. Mordacchini, A. Sala: "**A Mediator System for Data and Multimedia Sources**", Data Integration through Semantic Technology, Workshop at the 3rd Asian Semantic Web Conference. 08-11 december 2008, Bangkok - Postponed until 2nd - 5th February 2009

- [CI24] F. Guerra, S. Bergamaschi, M.Orsini A. Sala, C. Sartori, "**Keymantic: A keyword Based Search Engine using Structural Knowledge**", In proceedings of the 11th International Conference on Enterprise Information Systems, Milano, Italy 6-10 May 2009
- [CI25] S. Bergamaschi, F. Guerra, F. Mandreoli, M. Vincini, "**Working in a dynamic environment: the NeP4B approach as a MAS**" In proceedings of the 8th International Workshop on Agent and Peer to Peer Computing, Budapest, Hungary, 11 May 2009
- [CI26] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori, M. Vincini: "**Semantic Analysis for an Advanced ETL framework**" In proceedings of the 1st International Workshop on Interoperability through Semantic Data and Service Integration June 25th, 2009, Camogli (Genova), Italy
- [CI27] F. Guerra, A. Maurino, M. Palmonari, G. Pasi, A. Sala " **Searching for Data and Services**" In proceedings of the 1st International Workshop on Interoperability through Semantic Data and Service Integration June 25th, 2009, Camogli (Genova), Italy
- [CI28] D. Beneventano, F. Guerra, A. Maurino, M. Palmonari, G. Pasi, A. Sala "**Unified Semantic Search of Data and Services**" In proceedings of the 3rd International Conference on Metadata and Semantics Research, Milan, Italy, 30 Sept – 2 Oct 2009
- [CI29] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori, M. Vincini: " **Improving Extraction and Transformation in ETL by Semantic Analysis**" In proceedings of the 10th European Conference on Knowledge Management , 3-4 September 2009, Vicenza, Italy
- [CI30] S. Bergamaschi, F. Guerra, M. Orsini, C. Sartori, M. Vincini: " **An ETL tool based on semantic analysis of schemata and instances**" In proceedings of Advanced Knowledge-based Systems Invited Session of the 13th International Conference on Knowledge-based and Intelligent Information & Engineering Systems (KES 2009), September 28-30, 2009, Santiago, Chile
- [CI31] S. Bergamaschi, F. Guerra, S. Rota, Y. Velegrakis: **Understanding Linked Open Data through Keyword Searching: the KEYRY approach**, In 1st international workshop on linked web data management (LWDM 2011) in conjunction with the 14th International Conference on Extending Database Technology (EDBT 2011), Uppsala, Sweden - March 21-25, 2011
- [CI32] S. Bergamaschi, E. Domnori, F. Guerra, R. Trillo Lado, Y. Velegrakis: **Keyword Search over Relational Databases: a Metadata Approach**, In SIGMOD 2011 565-576
- [CI33] S. Bergamaschi, F. Guerra, S. Rota, Y. Velegrakis: **A Hidden Markov Model Approach to Keyword-based Search over Relational Databases**. In ER 2011: 411-420.
- [CI34] S. Bergamaschi, F. Guerra, S. Rota, Y. Velegrakis: **KEYRY: a Keyword-based Search Engine over Structured Sources based on a Hidden Markov Model**, In ER 2011 (Demo session) 328-331
- [CI35] S. Bergamaschi, F. Guerra, S. Rota, Y. Velegrakis: **The List Viterbi training algorithm and its application to Keyword Search over Databases**, In CIKM 2011 1601-1606
- [CI36] F. Guerra, M. Oлару, M. Vincini: **Mapping and Integration of Dimensional Attributes Using Clustering Techniques**. EC-Web 2012: 38-49
- [CI37] S. Bergamaschi, N.Ferro, F.Guerra , G. Silvello: **Keyword Search and Evaluation over Relational Databases: an Outlook to the Future**. DBRank 2013: 1-3, ISBN 978-1-4503-2497-7
- [CI38] F.Guerra , G. Simonini: **Using Big Data to Support Automatic Word Sense Disambiguation**. In Proceedings of the International Conference on High Performance Computing & Simulation (HPCS 2014), Special Session on Big Data Principles, Architectures & Applications, Bologna, 21-25 July 2014.

- [CI39] S. Bergamaschi, D. Ferrari, F. Guerra, and G. Simonini: **Discovering the topics of a data source: a statistical approach**. Proceedings of the Workshop on Surfacing the Deep and the Social Web co-located with the 13th International Semantic Web Conference (ISWC 2014). Riva del Garda, Trentino, Italy, October 19, 2014. CEUR Vol1310 ISSN 1613-0073
- [CI40] C. Bernabei, F. Guerra, R. Trillo Lado: **Keyword search in structured data and network analysis: A preliminary experiment over DBLP**. SMAP 2015: 1-6
- [CI41] S. Cadegnani, F. Guerra, S. Ilarri, M. Rodríguez-Hernández, R. Trillo Lado, Y. Velegrakis: **Recommending Web Pages Using Item-Based Collaborative Filtering Approaches**. International KEYSTONE Conference 2015: 17-29. International KEYSTONE Conference 2015: 94-107, Lecture Notes in Computer Science 9398, Springer, 2015.
- [CI42] K. Draszawka, J. Szymanski, F. Guerra: **Improving css-KNN Classification Performance by Shifts in Training Data**. International KEYSTONE Conference 2015: 51-63, Lecture Notes in Computer Science 9398, Springer, 2015.
- [CI43] P. Kozikowski, E. Ioannou, Y. Velegrakis, F. Guerra: **Support of Part-Whole Relations in Query Answering**. International KEYSTONE Conference 2015: 94-107, Lecture Notes in Computer Science 9398, Springer, 2015.
- [CI44] M. Rodríguez-Hernández, S. Ilarri, R. Trillo Lado, F. Guerra: **Towards Keyword-based Pull Recommendation Systems**. ICEIS (1) 2016: 207-214
- [CI45] J. Azzopardi, F. Benedetti, F. Guerra, M. Lupu: **Back to the Sketch-Board: Integrating Keyword Search, Semantics, and Information Retrieval**. International KEYSTONE Conference 2016: 49-61
- [CI46] F. Guerra, Y. Velegrakis, J. S. Cardoso, J. G. Breslin: **The KEYSTONE IC1302 COST Action**. International KEYSTONE Conference 2017: 187-195
- [CI47] F. Guerra, M. Russo, M. Fontana, M. Paganelli, F. Bancilhon, C. Frisch, L. Petit, A. Giorgi, E. Zilio: **The RESEARCH ALPS (Research Laboratories in the Alpine Area) Project**. HPCS 2017: 64-69
- [CI48] D. Beneventano, F. Guerra, Y. Velegrakis: **Data Exploration on Large Amount of Relational Data through Keyword Queries**. HPCS 2017: 70-73
- [CI49] M. Interlandi, J. Lacroix, O. Boucelma, F. Guerra: **Cleaning MapReduce Workflows**. HPCS 2017: 74-78
- [CI50] D. Abia, F. Guerra, J. Martinez-Romanos, R. Trillo Lado: **Wikidata and DBpedia: A Comparative Study**. International KEYSTONE Conference on Semantic Keyword-Based Search on Structured Data Sources, IKC 2017; Gdansk; Poland;
- [CI51] P. Sottovia, M. Paganelli, F. Guerra, Y. Velegrakis: **Finding Synonymous Attributes in Evolving Wikipedia Infoboxes**. ADBIS 2019: 169-185
- [CI52] F. Guerra, P. Sottovia, M. Paganelli, M. Vincini: **Big Data Integration of Heterogeneous Data Sources: The Research Alps Case Study**. BigData Congress 2019: 106-110
- [CI53] M. Paganelli, P. Sottovia, A. Maccioni, M. Interlandi, F. Guerra: **Understanding Data in the Blink of an Eye**. CIKM 2019: 2885-2888
- [CI54] M. Paganelli, P. Sottovia, F. Guerra, Y. Velegrakis: **TuneR: Fine Tuning of Rule-based Entity Matchers**. CIKM 2019: 2945-2948
- [CI55] K. Babić, F. Guerra, S. Martinčić-Ipšić, A. Meštrović: **Short Texts Semantic Similarity Based on Word Embeddings**. CECEIS, Central European Conference on Information and Intelligent Systems (2019)

- [CI56] M. Paganelli, F. Del Buono, F. Guerra, N. Ferro: **Unsupervised Evaluation of Data Integration Processes**. iiWAS 2020: 77-81
- [CI57] A. Baraldi, F. Del Buono, M. Paganelli, F. Guerra: **Using Landmarks for Explaining Entity Matching Models**. EDBT 2021: 451-456
- [CI58] M. Paganelli, F. Del Buono, M. Pevarello, F. Guerra, M. Vincini: **Automated Machine Learning for Entity Matching Tasks**. EDBT 2021: 325-330
- [CI59] F. Del Buono, M. Paganelli, P. Sottovia, M. Interlandi, F. Guerra: **Transforming ML Predictive Pipelines into SQL with MASQ**. SIGMOD Conference 2021: 2696-2700
- [CI60] A. Baraldi, F. Del Buono, M. Paganelli, F. Guerra: **Landmark Explanation: an Explainer for Entity Matching Models**. CIKM 2021: 4680-4684
- [CI61] M. Paganelli, F. Del Buono, F. Guerra, N. Ferro: **Evaluating the Integration of Datasets**. ACM SAC 2022
- [CI62] A. Baraldi, F. Del Buono, F. Guerra, M. Paganelli, M. Vincini: **An Intrinsically Interpretable Entity Matching System**. EDBT 2023: 645-657

Italian Conferences / workshops (CN)

- [CN1] D. Beneventano, S. Bergamaschi, F. Guerra, M. Vincini, **Exploiting extensional knowledge for query reformulation and object fusion in a data integration system**, Proceedings of the Convegno Nazionale Sistemi di Basi di Dati Evolute (SEBD2001), Venezia, 27-29 June, 2001, pp. 257-271
- [CN2] G. Gelati, F. Guerra, M. Vincini, **Agents Supporting Information Integration: the MIKS Framework**, Proc. AIIA and TABOO Workshop: From Object to Agents, Pitagora Editrice, Bologna, ISBN 88-371-1272-6, September 2001
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