

BARBARA OLIBONI

Curriculum vitae et studiorum

PERSONAL INFORMATION

Name: Barbara Oliboni

Institution: Department of Computer Science – University of Verona

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EDUCATION

- **Ph.D. Degree in Computer Engineering** by the Politecnico of Milan (2003).
Thesis Title: “Blind queries and constraints: representing flexibility and time in semistructured data”.
Advisor: Prof. Letizia Tanca.
Co-advisors: Prof. Carlo Combi, Prof. Ernesto Damiani.
- **Master Degree in Computer Science** by the University of Verona (1998).
Thesis Title: “La rappresentazione dell’informazione semistrutturata mediante WG-Log: Interrogazione di fonti di dati in Lorel”. (Representing semistructured data by using WG-Log: Querying data sources by Lorel.)
Advisor: Prof. Letizia Tanca.
Co-advisor: Prof. Ernesto Damiani.

POSITION

- **Associate Professor** at the Department of Computer Science of the University of Verona.
- National Scientific qualification as full professor in the Italian higher education system (Academic Recruitment Field 09/H1 - Computer engineering, according to the national classification). The validity of the qualification starting from the 06/02/2023.

RECORD OF EMPLOYMENT

- Since October 2019 she has been an Associate Professor at the Department of Computer Science of the University of Verona.
- Since March 2006 she has been an Assistant Professor at the Department of Computer Science of the University of Verona.
- Since November 2002 she has been Postdoctoral Researcher at the Department of Computer Science of the University of Verona.
- Since March 2000 she has been PhD student at Department of Electronics and Information of the Politecnico of Milan.
- Since June 1999 she has been Postdoctoral Researcher at the Scientific and Technological Department of the University of Verona.

TEACHING ACTIVITY

Barbara Oliboni was teacher of the following courses:

- A.A. 2023–2024:
 - “Business Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Business Intelligence” - 3 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Databases for bioinformatics” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Databases and Web” - 3 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Medical Informatics” - 3 CFU - (Bachelor’s degree in Human Centered Medical System Engineering) University of Verona.
- A.A. 2022–2023:
 - “Business Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Databases for bioinformatics” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Databases and Web” - 3 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Medical Informatics” - 3 CFU - (Bachelor’s degree in Human Centered Medical System Engineering) University of Verona.
- A.A. 2021–2022:
 - “Business Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Databases for bioinformatics” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Databases and Web” - 3 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Data Warehouse and Integration” - 3 CFU - (Master’s degree in Computer Engineering for Robotics and Smart Industry) University of Verona.
- A.A. 2020–2021:
 - “Business Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Databases for bioinformatics” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Databases and Web” - 3 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Software Engineering - Exercise” - 1 CFU - (Bachelor’s degree in Bioinformatics - Bachelor’s degree in Computer Science) University of Verona.
 - “Software Engineering - Laboratory” - 1 CFU - (Bachelor’s degree in Bioinformatics - Bachelor’s degree in Computer Science) University of Verona.

- A.A. 2019–2020:
 - “Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Databases for bioinformatics” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Software Engineering - Exercise” - 1 CFU - (Bachelor’s degree in Bioinformatics - Bachelor’s degree in Computer Science) University of Verona.
- A.A. 2018–2019:
 - “Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Databases for bioinformatics” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Software Engineering - Exercise” - 1 CFU - (Bachelor’s degree in Bioinformatics - Bachelor’s degree in Computer Science) University of Verona.
- A.A. 2017–2018:
 - “Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Databases for bioinformatics” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Software Engineering - Exercise” - 1 CFU - (Bachelor’s degree in Bioinformatics - Bachelor’s degree in Computer Science) University of Verona.
- A.A. 2016–2017:
 - “Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Introduction to Programming - Laboratory” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Software Engineering - Exercise” - 1 CFU - (Bachelor’s degree in Bioinformatics - Bachelor’s degree in Computer Science) University of Verona.
- A.A. 2015–2016:
 - “Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Introduction to Programming - Laboratory” - 6 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Software Engineering - Exercise” - 1 CFU - (Bachelor’s degree in Bioinformatics - Bachelor’s degree in Computer Science) University of Verona.
- A.A. 2014–2015:
 - “Basi di Dati Biomediche e Bioinformatiche” - 6 CFU - (Master’s degree in Bioinformatics and Medical Biotechnology) University of Verona.
 - “Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
- A.A. 2013–2014:
 - “Basi di Dati Biomediche e Bioinformatiche” - 6 CFU - (Master’s degree in Bioinformatics and Medical Biotechnology) University of Verona.
 - “Business Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.

- A.A. 2012–2013:
 - “Basi di Dati Biomediche e Bioinformatiche” - 6 CFU - (Master’s degree in Bioinformatics and Medical Biotechnology) University of Verona.
 - “Business Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
- A.A. 2011–2012:
 - “Basi di Dati Biomediche e Bioinformatiche” - 6 CFU - (Master’s degree in Bioinformatics and Medical Biotechnology) University of Verona.
- A.A. 2010–2011:
 - “Business Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
 - “Basi di Dati Biomediche e Bioinformatiche” - 6 CFU - (Master’s degree in Bioinformatics and Medical Biotechnology) University of Verona.
- A.A. 2009–2010:
 - “Business Information Systems” - 6 CFU - (Master’s degree in Computer Science and Engineering) University of Verona.
- A.A. 2008–2009:
 - “Databases” - 12 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Multimedia Information Systems” - 5 CFU - (Master’s degree in Multimedia and Intelligent Systems) University of Verona.
- A.A. 2007–2008:
 - “Databases” - 12 CFU - (Bachelor’s degree in Bioinformatics) University of Verona.
 - “Multimedia Information Systems” - 5 CFU - (Master’s degree in Multimedia and Intelligent Systems) University of Verona.
- A.A. 2006–2007:
 - “Basic Information Technology” - 4 CFU - (Bachelor’s degree in Multimedia and Computer Science) University of Verona.
 - “Multimedia Information Systems” - 5 CFU - (Master’s degree in Multimedia and Intelligent Systems) University of Verona.
 - “Information Technology” - 2 CFU - (Bachelor’s degree in Radiology Techniques for Imaging and Radiotherapy) University of Verona.
 - “Information Retrieval Systems” - 5 CFU - (Master’s degree in Publishing and Journalism) University of Verona.
 - “Sistemi informativi di rete” (Master Universitario in Progettazione e gestione di sistemi di rete (I livello - III edizione)) University of Verona.
- A.A. 2005–2006:
 - “Multimedia Information Systems” - 5 CFU - (Master’s degree in Multimedia and Intelligent Systems) University of Verona.
 - “Applied computer science” - 2 CFU - (Bachelor’s degree courses in nursing and obstetrics) University of Verona.
 - “Information Retrieval Systems” - 5 CFU - (Master’s degree in Publishing and Journalism) University of Verona.

- A.A. 2004–2005:
 - “Web Databases - Laboratory” - 2 CFU - (Bachelor’s degree in Computer Science) University of Verona.
 - “Multimedia Databases - Laboratory” - 2 CFU - (Bachelor’s degree in Information Technology: Multimedia) University of Verona.
 - “Applied computer science” - 2 CFU - (Bachelor’s degree courses in nursing and obstetrics) University of Verona.
 - “Information Retrieval Systems” - 5 CFU - (Master’s degree in Publishing and Journalism) University of Verona.
 - “Databases and Web architecture” (Master in Business Intelligence and Knowledge Management) University of Verona.
 - “Information Systems in Medicine” (Master in Information Elaboration of Biomedical data and Telecontrol in Medicine) University of Verona.
- A.A. 2003–2004:
 - “Web Databases - Laboratory” - 2 CFU - (Bachelor’s degree in Computer Science) University of Verona.
 - “Multimedia Databases - Laboratory” - 2 CFU - (Bachelor’s degree in Information Technology: Multimedia) University of Verona.
- A.A. 2002–2003:
 - “Web Databases - Laboratory” - 2 CFU - (Bachelor’s degree in Computer Science) University of Verona.
 - “Multimedia Databases - Laboratory” - 2 CFU - (Bachelor’s degree in Information Technology: Multimedia) University of Verona.

SUPERVISION ACTIVITY

Barbara Oliboni was either advisor of 18 master thesis, and of 30 bachelor thesis.

SUPERVISION OF PHD STUDENTS

Barbara Oliboni was co-advisor of the research activity of the PhD student Francesca Zerbato in the PhD in Computer Science of the University of Verona.

Title of the thesis proposal: “Tackling different business process perspectives - Modeling data, time, and decisions in BPMN processes”. Advisor: Prof. Carlo Combi. Co-advisors: Barbara Oliboni and Mathias Weske

EDITORIAL ACTIVITY

- Barbara Oliboni was board member of European Society of Artificial Intelligence in Medicine (AIME), (2017-2023).
- Barbara Oliboni was a member of the Program Committee of:
 - 21st Conference on Artificial Intelligence in Medicine (AIME 2023) come Senior PC member.
 - 20th Conference on Artificial Intelligence in Medicine (AIME 2022) come Senior PC member.

- 19th Conference on Artificial Intelligence in Medicine (AIME 2021) come Senior PC member.
- 18th Conference on Artificial Intelligence in Medicine (AIME 2020).
- 17th Conference on Artificial Intelligence in Medicine (AIME 2019).
- 8th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB’17).
- 16th Conference on Artificial Intelligence in Medicine (AIME’17).
- 15th Conference on Artificial Intelligence in Medicine (AIME’15).
- 14th Conference on Artificial Intelligence in Medicine (AIME’13).
- 13th Conference on Artificial Intelligence in Medicine (AIME’11).
- Flexible Database and Information Systems Technology (FlexDBIST-11). Workshop of the 22nd International Conference on Database and Expert Systems Applications (DEXA 2011).
- Intelligent Data Analysis in BioMedicine and Pharmacology (IDAMAP). Workshop of the 2010 Annual Symposium of the American Medical informatics Association.
- Flexible Database and Information Systems Technology (FlexDBIST-10). Workshop of the 21st International Conference on Database and Expert Systems Applications (DEXA 2010).
- Flexible Database and Information Systems Technology (FlexDBIST-09). Workshop of the 20th International Conference on Database and Expert Systems Applications (DEXA 2009).
- 12th Conference on Artificial Intelligence in Medicine (AIME’09).
- Database Technologies for Handling XML Information on the Web (DataX’09). Workshop of the 12th International Conference on Extending Database Technology (EDBT 2009).
- Flexible Database and Information Systems Technology (FlexDBIST-08). Workshop of the 19th International Conference on Database and Expert Systems Applications (DEXA 2008).
- Flexible Database and Information Systems Technology (FlexDBIST-07). Workshop of the 18th International Conference on Database and Expert Systems Applications (DEXA 2007).
- Flexible Database and Information Systems Technology (FlexDBIST-06). Workshop of the 17th International Conference on Database and Expert Systems Applications (DEXA 2006).
- Intelligent Techniques for Knowledge Extraction and Management (ITKEM 2004). Special Session of VIII International Conference on Computational Intelligence (FUZZY DAYS 2004).

REVISION ACTIVITY

- Barbara Oliboni was a reviewer for the following journals:
 - *Information and Software Technology*
 - *Transactions on Software Engineering and Methodology*
 - *Transactions on Services Computing*
 - *Information Systems Frontiers*

- *World Wide Web Journal*
- *Journal of Biomedical Informatics*
- *IEEE Journal of Biomedical and Health Informatics*
- *IEEE Transactions on Fuzzy Systems*
- *Information Systems*
- *Journal of Web Engineering and Technology*
- *Artificial Intelligence in Medicine*
- *Data and Knowledge Engineering*
- *International Journal of Knowledge and Learning*
- *Informatica*
- Barbara Oliboni was a reviewer for the following book:
 - *Annals of Information Systems - Special issue on NEW TRENDS IN DATA WAREHOUSING AND DATA ANALYSIS*
- Barbara Oliboni was a reviewer for national and international conferences and workshops.

RESEARCH PUBLICATIONS ¹

International Journals with revision

- A.14 C. Combi, B. Oliboni, F. Zerbato. “Integrated Exploration of Data-Intensive Business Processes”. *IEEE Transactions on Services Computing*, Volume 16(1): 383-397, (2023).
- A.13 C. Combi, B. Oliboni, F. Zerbato, M. Weske. “Seamless conceptual modeling of processes with transactional and analytical data”. *Data & Knowledge Engineering*, Volume 134, Article Number 101895, Pages 101895.1-101895.14, (2021).
- A.12 C. Combi, B. Oliboni, G. Pozzi, A. Sabaini, E. Zimanyi. “Enabling instant- and interval-based semantics in multidimensional data models: the T+MultiDim Model”. *Information Sciences*, Volume 518, pp. 413–435, (2020).
- A.11 C. Combi, B. Oliboni, F. Zerbato. “A modular approach to the specification and management of time duration constraints in BPMN”. *Information Systems*, Volume 84, pp. 111–144, (2019).
- A.10 E. Bazhenova, F. Zerbato, B. Oliboni, M. Weske. “From BPMN Process Models to DMN Decision Models”. *Information Systems*, Volume 83, pp. 69–88, (2019).
- A.9 E. Damiani, B. Oliboni, E. Quintarelli, L. Tanca. “A graph-based meta-model for heterogeneous data management”. *Knowledge and Information Systems*. Volume 61, Issue 1, pp 107–136, (2019).
- A.8 C. Combi, A. Masini, B. Oliboni, M. Zorzi. “A hybrid logic for XML reference constraints”. *Data & Knowledge Engineering*. Volume 115, pp 94–115, (2018).
- A.7 C. Combi, B. Oliboni, A. Zardini, F. Zerbato. “A Methodological Framework for the Integrated Design of Decision-Intensive Care Pathways - an Application to the Management of COPD Patients”. *International Journal of Healthcare Informatics Research*. Volume 1, Issue 2, pp 157–217, (2017).

¹Publications were classified by type, listed from the newer to the older, and enumerated in chronological order.

- A.6 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “Schema Change Operations for Full Support of Schema Versioning in the τ -XSchema Framework”. *International Journal of Information Technology and Web Engineering (IJITWE)*. Volume 9, Issue 2, pp 20–46, (2014).
- A.5 C. Combi, B. Oliboni. “Visually defining and querying consistent multi-granular clinical temporal abstractions”. *Artificial Intelligence in Medicine*. Volume 54, Issue 2, pp 75–101, (2012).
- A.4 C. Combi, B. Oliboni, E. Quintarelli. “Modeling temporal dimensions of semistructured data”. *Journal of Intelligent Information Systems*. Volume 38, Issue 3, pp 601–644, (2012).
- A.3 C. Combi, M. Gozzi, B. Oliboni, J. M. Juarez, R. Marin. “Temporal Similarity Measures for Querying Clinical Workflows”. *Artificial Intelligence in Medicine*. Volume 46, Issue 1, pp 37–54, (2009).
- A.2 C. Combi, B. Oliboni, R. Rossato. “Merging Multimedia Presentations and Semi-structured Temporal Data: a Graph-based Model and its Application to Clinical Information”. *Artificial Intelligence in Medicine*, Vol. 34, pp. 89–112, (2005).
- A.1 B. Oliboni, L. Tanca. “A visual language should be easy to use: a step forward for XML-GL”. *Information Systems*, Volume 27/7, pp. 459–486, (novembre 2002).

International Conferences with revision

- B.44 A. Dalla Vecchia, N. Marastoni, S. Migliorini, B. Oliboni, E. Quintarelli. “Mining Totally Ordered Sequential Rules to Provide Timely Recommendations”. *Proceedings of the 27th European Conference on Advances in Databases and Information Systems (ADBIS 2023) Communications in Computer and Information Science*, Volume 1850 CCIS, pp 197–207. Barcelona, Spain, September 4-7, 2023.
- B.43 A. Dalla Vecchia, N. Marastoni, B. Oliboni, E. Quintarelli. “The Synergies of Context and Data Aging in Recommendations”. *Proceedings of the 25th International Conference on Big Data Analytics and Knowledge Discovery (DaWaK 2023)*. *Lecture Notes in Computer Science*, Volume 14148 LNCS, pp 80–87 (2023).
- B.42 N. Marastoni, B. Oliboni, E. Quintarelli. “Explainable Recommendations for Wearable Sensor Data”. *Proceedings of the 24th International Conference on Big Data Analytics and Knowledge Discovery (DaWaK 2022)*. *Lecture Notes in Computer Science*, Volume 13428 LNCS, pp. 241–246 (2022). Vienna, August 22-24, 2022.
- B.41 C. Combi, B. Oliboni, F. Zerbato. “Integrated Exploration of Data-Intensive Business Processes [Extended Abstract]”. *Proceedings of the IEEE World Congress on Services, SERVICES 2022*, pp 25. ISBN 978-1-6654-8131-1 Barcelona, Spain, July 10-16, 2022.
- B.40 C. Combi, B. Oliboni, P. Sala. “Customizing BPMN Diagrams Using Timelines”. *Proceedings of the 26th International Symposium on Temporal Representation and Reasoning (TIME 2019)*. *Leibniz International Proceedings in Informatics (LIPIcs)*, Volume 147, pp 5:1–5:17. ISBN 978-3-95977-127-6. Málaga, Spain, October 16-19, 2019.
- B.39 C. Combi, B. Oliboni, M. Weske, F. Zerbato. “Conceptual modeling of processes and data: Connecting different perspectives”. *Proceedings of the 37th International Conference on Conceptual Modeling (ER 2018)*. *Lecture Notes in Computer Science*,

- Volume 11157, pp 236–250. ISBN 978-303000846-8. Xi'an (China), October 22-25, 2018.
- B.38 C. Combi, B. Oliboni, M. Weske, F. Zerbato. “Conceptual Modeling of Interdependencies between Processes and Data”. Proceedings of the Symposium on Applied Computing (SAC 2018). ACM Press, pp. 110–119. ISBN 978-1-4503-5191-1. Pau (France), April 9-13, 2018.
- B.37 B. Canovas-Segura, F. Zerbato, B. Oliboni, C. Combi, M. Campos, A. Morales Nicolas, J. M. Juarez, F. Palacios, R. Marin. “A Decision Support Visualization Tool for Infection Management Based on BPMN and DMN”. Proceedings of the 3rd International Conference on Technologies and Innovation, (CITI 2017). Communications in Computer and Information Science. Volume 749, 2017, Pages 158-168 Guayaquil (Ecuador), October 24-27, 2017.
- B.36 B. Canovas-Segura, F. Zerbato, B. Oliboni, C. Combi, M. Campos, A. Morales Nicolas, J. M. Juarez, R. Marin, F. Palacios. “A Process-Oriented Approach for Supporting Clinical Decisions for Infection Management”. Proceedings of the IEEE International Conference on Healthcare Informatics, (ICHI 2017). IEEE Computer Society Press, pages 91–100. Park City (UT, USA), August 23-26, 2017.
- B.35 C. Combi, B. Oliboni, F. Zerbato. “Towards Dynamic Duration Constraints for Therapy and Monitoring Tasks”. Proceedings of the 16th Conference on Artificial Intelligence in Medicine (AIME 17). Lecture Notes in Artificial Intelligence, Volume 10259, pp. 223–233. Vienna (Austria), June 21-24, 2017.
- B.34 C. Combi, B. Oliboni, F. Zerbato. “Modeling and handling duration constraints in BPMN 2.0”. Proceedings of the Symposium on Applied Computing (SAC 2017). ACM Press, pp. 727–734. ISBN 978-1-4503-4486-9. Marrakech (Morocco), April 3-7, 2017.
- B.33 C. Combi, B. Oliboni, A. Zardini, F. Zerbato. “Seamless Design of Decision-Intensive Care Pathways”. Proceedings of the International Conference on Healthcare Informatics, (ICHI 2016). IEEE Computer Society Press, pages 35–45. Chicago (IL, USA), October 4-7, 2016. (*Best Full Paper Award.*)
- B.32 F. Zerbato, B. Oliboni, C. Combi, M. Campos, J. M. Juarez. “BPMN-Based Representation and Comparison of Clinical Pathways for Catheter-Related Bloodstream Infections”. Proceedings of the International Conference on Healthcare Informatics, (ICHI 2015). IEEE Computer Society Press, pages 346–355. Dallas (TX, USA), October 21-23, 2015
- B.31 C. Combi, A. Masini, B. Oliboni, M. Zorzi. “A Logical Framework for XML Reference Specification”. Proceedings of the 26th International Conference on Database and Expert Systems Applications (DEXA 2015). Lecture Notes in Computer Science, Volume 9262, pp. 258–267. Valencia (Spain), September 1-4, 2015.
- B.30 C. Combi, B. Oliboni, A. Gabrieli. “Conceptual Modeling of Clinical Pathways: Making Data and Processes Connected”. Proceedings of the 15th Conference on Artificial Intelligence in Medicine (AIME 15). Lecture Notes in Artificial Intelligence, Volume 9105, pp. 57–62. Pavia (Italy), June 17-20, 2015.
- B.29 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “High-level Operations for Creation and Maintenance of Temporal and Conventional Schema in the τ XSchema Framework”. Proceedings of the 21st International Symposium on Temporal Representation and Reasoning (TIME 2014). IEEE Computer Society Press, pages 101–110. ISBN: 978-1-4799-4228-2. Verona (Italy), September 8-10, 2014.

- B.28 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “Versioning of Conventional Schema in the τ XSchema Framework”. In Proceedings of the 8th International Conference on Signal Image Technology & Internet Based Systems (SITIS 2012). IEEE Computer Society Press, pages 510–518. SBN: 978-1-4673-5152-2. Sorrento (Italy), November 25-29, 2012.
- B.27 Z. Brahmia, R. Bouaziz, F. Grandi, B. Oliboni. “Schema versioning in τ XSchema-based multitemporal XML repositories”. In Proceedings of the Fifth IEEE International Conference on Research Challenges in Information Science (RCIS 2011). IEEE Computer Society Press, pages 1–12. ISBN: 978-1-4244-8670-0. Gosier, (Guadeloupe - France), May 19-21, 2011.
- B.26 F. Cavaliere, G. Guerrini, M. Mesiti, B. Oliboni. “On the Minimization of Sequences of XML Document and Schema Update Operations”. In Workshops Proceedings of the 27th International Conference on Data Engineering (ICDE 2011). 1st International Workshop on Managing Data Throughout its Lifecycle (DaLi 2011) IEEE Computer Society Press, pages 77–86. ISBN: 978-1-4244-9195-7. Hannover, (Germany), April 11, 2011.
- B.25 A. Calvi, M. Delledonne, A. Ferrarini, P. Lovato, S. Marchesini, B. Oliboni. “MICROARRAY SYSTEM. A System for Managing Data Produced by DNA-microarray Experiments”. In Proceedings of the International Conference on Bioinformatics Models, Methods and Algorithms (BIOINFORMATICS 2011). 2011 SciTePress (Science and Technology Publications), pages 293–296. ISBN: 978-989-8425-36-2.
- B.24 M. Bicego, P. Lovato, B. Oliboni, A. Perina. “Expression microarray classification using topic models”. In Proceedings of the 2010 ACM Symposium on Applied Computing (SAC 2010). Bioinformatics Track. ACM Press, pages 1516–1520.
- B.23 E. Caneva, B. Oliboni, E. Quintarelli. “Mining Flexible Association Rules from XML”. In Proceedings of the 2009 EDBT/ICDT Workshops. DataX’09: Fourth International Workshop on Database Technologies for Handling XML Information on the Web. ACM International Conference Proceeding Series; Vol. 360, 2009. ACM Press, pages 85–92.
- B.22 B. Oliboni, G. Pozzani. “Representing Fuzzy Information by using XML Schema”. In Proceedings of the 19th International Workshop on Database and Expert Systems Applications (DEXA 2008). (Third International Workshop on Flexible Database and Information System Technology). IEEE Computer Society Press, pages 683–687.
- B.21 C. Combi, M. Gozzi, J. M. Juarez, R. Marin, B. Oliboni. “Querying clinical workflows by temporal similarity”. In Proceedings of the 11th Conference on Artificial Intelligence in Medicine (AIME 07). Lecture Notes in Computer Science, Volume 4594, pp. 469–478.
- B.20 C. Combi, M. Gozzi, J. M. Juarez, B. Oliboni, G. Pozzi. “Conceptual modeling of Temporal Clinical Workflows”. In Proceedings of the 14th International Symposium on Temporal Representation and Reasoning (TIME-07). IEEE Computer Society Press, pages 70–81.
- B.19 C. Combi, B. Oliboni. “Conceptual modeling of XML data”. In Proceedings of the 21st ACM Symposium on Applied Computing (SAC 2006). Track on Database Theory, Technology, and Applications. ACM Press, pp. 467–473.
- B.18 C. Combi, N. Lavarini, B. Oliboni. “Querying Semistructured Temporal Data”. In Proceedings of the EDBT 2006 Workshop on Query Languages and Query Processing (QLQP 2006). Lecture Notes in Computer Science, Volume 4254, pp. 625–636.

- B.17 C. Combi, B. Oliboni. “Managing valid time semantics for semistructured multimedia clinical data” In Proceedings of the EDBT 2006 Workshop on Information Integration in Healthcare Applications (IIHA 2006). Lecture Notes in Computer Science, Volume 4254, pp. 375–386.
- B.16 C. Combi, B. Oliboni, R. Rossato. “Complex Association Rules for XML Documents”. In Proceedings of 9th International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES 2005). Special Session on Maintenance and Customization of Business Knowledge. Lecture Notes in Artificial Intelligence, Volume 3681, pp. 127–133.
- B.15 C. Combi, B. Oliboni, R. Rossato. “Querying XML documents by using association rules”. In Proceedings of the sixteenth International Workshop on Database and Expert Systems Applications, pp. 1020–1024. (1st International Workshop on Integrating Data Mining, Databases and Information Retrieval). IEEE Computer Society Press.
- B.14 A. Belussi, C. Combi, S. Migliorini B. Oliboni. “A geographic, multimedia and temporal data model for semistructured data”. In Proceedings of the sixteenth International Workshop on Database and Expert Systems Applications, pp. 463–467. (2nd International Workshop on Geographic Information Management). IEEE Computer Society Press.
- B.13 C. Combi, B. Oliboni, R. Rossato. “Evaluating fuzzy association rules on XML documents”. In Bernd Reusch (Ed.) Proceedings of 8th International Conference on Computational Intelligence, Theory and Applications, pp. 435–448, (FUZZY DAYS 2004). Advances in Soft Computing 2, 2005. ISBN: 3-540-22807-1
- B.12 C. Combi, B. Oliboni, E. Quintarelli. “A graph-based data model to represent transaction time in semistructured data”. In F. Galindo, M. Takizawa, R. Traunmuller (Eds.) Proceedings of the Database and Expert Systems Applications (DEXA 2004). Lecture Notes in Computer Science, Volume 3180, pp. 559–568.
- B.11 P. Ceravolo, E. Damiani, B. Oliboni. “Fuzzy Techniques for Metadata Construction”. In Proceedings of the Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2004), pp. 1019–1026. Special Session ”Fuzzy Logic in the Semantic Web, a New Challenge”.
- B.10 C. Combi, B. Oliboni, E. Quintarelli. “Specifying temporal data models for semistructured data by a constraint-based approach”. In Hisham Haddad, Andrea Omicini, Roger L. Wainwright, Lorie M. Liebrock (Eds.) Proceedings of the 19th ACM Symposium on Applied Computing (SAC 2004), Track on Internet Data Management. ACM Press, pp. 1103–1108.
- B.9 C. Combi, B. Oliboni, E. Quintarelli. “A Graph-Based Model for Semistructured Temporal Data”. In R. Meersman, Z. Tari (Eds.) Proceedings of On The Move to Meaningful Internet Systems 2003: OTM 2003 Workshops. Lecture Notes in Computer Science, Volume 2889, pp. 22–23.
- B.8 E. Damiani, B. Oliboni, E. Quintarelli, L. Tanca. “Modeling Semistructured Data by using graph-based constraints ”. In R. Meersman, Z. Tari (Eds.) Proceedings of On The Move to Meaningful Internet Systems 2003: OTM 2003 Workshops. Lecture Notes in Computer Science, Volume 2889, pp. 20–21.
- B.7 C. Combi, B. Oliboni, R. Rossato. “Modeling multimedia and temporal aspects of semistructured clinical data”. In M. Dojat, E. Keravnou, P. Barahona (Eds.)

- Proceedings of 9th Conference on Artificial Intelligence in Medicine Europe (AIME 2003). Lecture Notes in Artificial Intelligence, Volume 2780, pp. 36–40.
- B.6 E. Damiani, N. Lavarini, S. Marrara, B. Oliboni, D. Pasini, L. Tanca, G. Viviani. “The APPROXML Tool Demonstration”. In Christian S. Jensen, Keith G. Jeffery, Jaroslav Pokorny, Simonas Saltenis, Elisa Bertino, Klemens Bohm, Matthias Jarke (Eds.) Proceedings of VIII Conference on Extending Database Technology (EDBT 2002) Berlin, Springer, Lecture Notes in Computer Science, Volume 2287, pp. 753–755.
- B.5 E. Damiani, B. Oliboni, L. Tanca. “Fuzzy Techniques for XML Data Smushing”. In Bernd Reusch (Ed.) Proceedings of VII International Conference on Computational Intelligence, (FUZZY DAYS 2001). Berlin, Springer, Lecture Notes in Computer Science, Volume 2206, pp. 637–652.
- B.4 E. Damiani, B. Oliboni, E. Quintarelli, L. Tanca. “Modeling users’ navigation history”. In Workshop on Intelligent Techniques for Web Personalisation. In Seventeenth International Joint Conference on Artificial Intelligence (IJCAI01).
- B.3 B. Oliboni, E. Quintarelli, L. Tanca. “Temporal aspects of semistructured data”. In Claudio Bettini, Angelo Montanari (Eds.) Proceedings of The Eighth International Symposium on Temporal Representation and Reasoning (TIME-01). Los Alamitos, IEEE Computer Society Press, pp. 119–127.
- B.2 B. Oliboni, L. Tanca. “Querying XML specified WWW sites: links and recursion in XML-GL (Extended Abstract)”. In John W. Lloyd, Veronica Dahl, Ulrich Furbach, Manfred Kerber, Kung-Kiu Lau, Catuscia Palamidessi, Luis Moniz Pereira, Yehoshua Sagiv, Peter J. Stuckey (Eds.) Proceedings of First International Conference on Computational Logic (CL 2000). Berlin, Springer, Lecture Notes in Artificial Intelligence, Volume 1861, pp. 1167–1181.
- B.1 E. Damiani, B. Oliboni, L. Tanca, D. Veronese. “Using WG-Log schemata to represent semistructured data”. In Robert Meersman, Zahir Tari, Scott M. Stevens (Eds.) Proceedings of 8th Working Conference on Database Semantics. Dodrecht, Kluwer Academic Publisher, IFIP Conference Proceedings, Volume 138, pp. 331–349.

Book Chapters with revision

- C.12 B. Oliboni, A. Dalla Vecchia, N. Marastoni, E. Quintarelli. “ICARE: An Intuitive Context-Aware Recommender with Explanations”. Intelligent Systems Reference Library, Volume 244, Pages 65–86, (2023). DOI: 10.1007/978-3-031-37306-0_4
- C.11 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “Supporting structural evolution of data in web-based systems via schema versioning in the τ -Xschema framework”. Handbook of Research on Contemporary Perspectives on Web-Based Systems. IGI Global, pages 271–307 (2018). DOI: 10.4018/978-1-5225-5384-7.ch013
- C.10 C. Combi, B. Oliboni, G. Pozzi, F. Zerbato. “Architectures and Models for the Enactment of Healthcare Processes”. In Process Modelling and Management for Healthcare. Edited by Carlo Combi, Giuseppe Pozzi, Pierangelo Veltri, 3–33. CRC Press Taylor and Francis Group (2017). ISBN: 978-1-138-19665-0
- C.9 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “Schema Versioning”. Encyclopedia of Information Science and Technology, Third Edition. IGI Global, pages 7651–7661 (2015). doi:10.4018/978-1-4666-5888-2.ch754.

- C.8 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “Schema Evolution”. Encyclopedia of Information Science and Technology, Third Edition. IGI Global, pages 7641-7650 (2015). doi:10.4018/978-1-4666-5888-2.ch753.
- C.7 B. Oliboni, G. Pozzani. “An XML Schema for Managing Fuzzy Documents” in Soft Computing in XML Data Management. Zongmin Ma and Li Yan editors. Series on Studies in Fuzziness and Soft Computing, Vol. 255. 2010. Springer-Verlag. ISBN: 978-3-642-14009-9
- C.6 D. Colazzo, G. Guerrini, M. Mesiti, B. Oliboni, E. Waller. “Document and Schema XML Updates” in Advanced Applications and Structures in XML Processing: Label Streams, Semantics Utilization and Data Query Technologies. Changqing Li and Tok Wang Ling editors. IGI Global. Pp. 361–384. 2010. ISBN: 1-61520-727-9
- C.5 C. Combi, B. Oliboni, G. Pozzi. “Modeling and Querying Temporal Semistructured Data Warehouses” in New Trends in Data Warehousing and Data Analysis. Stanislaw Kozielski, Robert Wrembel editors. Series: Annals of Information Systems, Vol. 3. 2009. ISBN: 978-0-387-87430-2
- C.4 C. Combi, S. Migliorini, B. Oliboni, A. Belussi. “GeoMTGM: A Graphical Data Model for Semistructured, Geographical, and Temporal Data” in Spatial Data on the Web. Modeling and Management. Alberto Belussi, Barbara Catania, Eliseo Clementini, and Elena Ferrari editors. Pp. 15–41. 2007. Springer Berlin Heidelberg. ISBN: 978-3-540-69877-7
- C.3 C. Combi, B. Oliboni. “Temporal Semistructured Data Models and Data Warehouses” in Data Warehouses and OLAP: Concepts, Architectures and Solutions. Robert Wrembel and Christian Koncilia editors. Pp. 277–297. 2007. IIRM Press - IDEA Group Inc. ISBN: 1-59904-364-5
- C.2 Ernesto Damiani, Nico Lavarini, B. Oliboni, Letizia Tanca. “An Approximate Querying Environment for XML Data” in “Fuzzy Logic and the Internet”, Vincenzo Loia, Masoud Nikravesh, Lotfi A. Zadeh editors. Series on Studies in Fuzziness and Soft Computing, Vol. 137, pp. 71–94. 2004. Springer-Verlag. ISBN: 3-540-20180-7.
- C.1 E. Damiani, N. Lavarini, S. Marrara, B. Oliboni, L. Tanca. “Flexible Queries to XML Information” in “Internet-based intelligent information processing systems”. R. J. Howlett, N. S. Ichalkaranje, L. C. Jain, G. Tonfoni editors. Series on Innovative Intelligence, Vol. 3, pp. 67–106. 2003. World Scientific Publishing Co. ISBN 981-238-281-X.

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