

# BARBARA OLIBONI

## Curriculum vitae et studiorum

### PERSONAL INFORMATION:

- **Work Address:** Dipartimento di Informatica – Università degli Studi di Verona – Ca' Vignal 2, Strada Le Grazie 15, 37134 Verona (VR) Italy
- **Telephone:** 045 8027077
- **E-Mail:** `barbara.oliboni@univr.it`

### DEGREE

- **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 HELD

- **Assistant Professor** at the Department of Computer Science of the University of Verona.

### RESEARCH ACTIVITY

- 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. 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 OF PHD STUDENT**

- Barbara Oliboni is 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”.

## **SUPERVISION ACTIVITY**

- Barbara Oliboni was either advisor of more than 10 master thesis, and of more than 20 bachelor thesis.

## **MEMBER OF PHD EVALUATION COMMITTEE**

- Barbara Oliboni was member of the evaluation committee for the PhD thesis in Computer Science of Jose Manuel Juarez Herrero. Thesis Title: “Una aproximación multimodal al diagnóstico temporal mediante razonamiento basado en casos y razonamiento basado en modelos. Aplicaciones en medicina” (2007). Faculty of Computer Science of the University of Murcia (Spain).

## **REVISION ACTIVITY**

- Barbara Oliboni was a reviewer for the following journals:
  - *IEEE Transactions on Fuzzy Systems*
  - *Journal of Biomedical Informatics*

- *Information Systems*
- *Journal of Web Engineering and Technology*
- *Artificial Intelligence in Medicine*
- *Data and Knowledge Engineering*
- *International Journal of Knowledge and Learning*
- *World Wide Web Journal*
- *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 the following conferences:
  - *11th International Workshops on Network Tools and Applications in Biology (NETTAB 2011)*;
  - *15th East-European Conference on Advances in Databases and Information Systems (ADBIS 2011)*;
  - *14th East-European Conference on Advances in Databases and Information Systems (ADBIS 2010)*;
  - *23rd Annual ACM Symposium on Applied Computing - Software Verification Track 2008 (SV08)*;
  - *11th Conference on Artificial Intelligence in Medicine (AIME07)*;
  - *Workshop on Intelligent Data Analysis in bioMedicine and Pharmacology (IDAMAP 2006)*;
  - *16th International Conference on Database and Expert Systems Applications (DEXA 2005)*;
  - *10th Conference on Artificial Intelligence in Medicine (AIME05)*;
  - *International Workshop on Evolution and Change in Data Management (ECDM 2004)*;
  - *International Conference on Computational Intelligence (Fuzzy Days 2004)*;
  - *11th International Symposium on Temporal Representation and Reasoning (TIME 2004)*;
  - *15th International Conference on Database and Expert Systems Applications (DEXA 2004)*;
  - *International Conference on Extending Database Technology (EDBT 2004)*;
  - *14th International Conference on Database and Expert Systems Applications (DEXA 2003)*;
  - *Workshop Time for the Web (Fifteenth International Conference on Software Engineering and Knowledge Engineering) (SEKE 2003)*;
  - *Sixth International Conference on Knowledge-Based Intelligent Information & Engineering Systems (KES 2002)*;
  - *X Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2002)*;
  - *WWW and E-business Applications: Special Track of the 17th ACM Symposium on Applied Computing (SAC 2002)*;
  - *Fourth International Workshop on the Web and Databases (WebDB 2001)*;
  - *IX Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2001)*;
  - *VIII Convegno Nazionale su Sistemi Evoluti per Basi di Dati (SEBD 2000)*.

## EDITORIAL ACTIVITY

Barbara Oliboni was a member of the Program Committee of:

- 17th Conference on Artificial Intelligence in Medicine (AIME'19).
- 8th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB'17).
- 16th Conference on Artificial Intelligence in Medicine (AIME 2017).
- 15th Conference on Artificial Intelligence in Medicine (AIME 2015).
- 14th Conference on Artificial Intelligence in Medicine (AIME 2013).
- 13th Conference on Artificial Intelligence in Medicine (AIME 2011).
- 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 2009).
- 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).

## CONFERENCE ORGANIZATION

Barbara Oliboni was a member of the Organization Committee of:

- 21st International Symposium on Temporal Representation and Reasoning (TIME 2014), as organization co-chair.
- IEEE International Conference on Healthcare Informatics (ICHI 2014), as treasurer.

- 12th Conference on Artificial Intelligence in Medicine (AIME 2009).
- Workshop on Intelligent Data Analysis in bioMedicine and Pharmacology (IDAMAP 2006).

## RESEARCH PUBLICATIONS <sup>1</sup>

### International Journals with revision

- A.10 E. Bazhenova, F. Zerbato, B. Oliboni, M. Weske. “From BPMN Process Models to DMN Decision Models”. *Information Systems*. DOI: 10.1016/j.is.2019.02.001 Article in press (2019).
- A.9 E. Damiani, B. Oliboni, E. Quintarelli, L. Tanca. “A graph-based meta-model for heterogeneous data management”. *Knowledge and Information Systems*. DOI: 10.1007/s10115-018-1305-8. Article in press (2018).
- 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).
- A.6 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “Schema Change Operations for Full Support of Schema Versioning in the ?XSchema Framework”. *International Journal of Information Technology and Web Engineering*. 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.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*,

---

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

- 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. Zerbatto. “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 C. Combi, B. Oliboni, F. Zerbatto. “Conceptual Modeling of Inter-dependencies between Processes and Data”. In Proceedings of the Symposium on Applied Computing (SAC 2018). ACM Press, pp. 110–119. ISBN 978-1-4503-5191-1.
- B.36 B. Canovas-Segura, F. Zerbatto, 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”. In Proceedings of the IEEE International Conference on Healthcare Informatics, (ICHI 2017). IEEE Computer Society Press, pages 91–100.
- B.35 C. Combi, B. Oliboni, F. Zerbatto. “Towards Dynamic Duration Constraints for Therapy and Monitoring Tasks”. In Proceedings of the 16th Conference on Artificial Intelligence in Medicine (AIME 17). Lecture Notes in Artificial Intelligence, Volume 10259, pp. 223–233.
- B.34 C. Combi, B. Oliboni, F. Zerbatto. “Modeling and handling duration constraints in BPMN 2.0”. In Proceedings of the Symposium on Applied Computing (SAC 2017). ACM Press, pp. 727–734. ISBN 978-1-4503-4486-9.
- B.33 C. Combi, B. Oliboni, A. Zardini, F. Zerbatto. “Seamless Design of Decision-Intensive Care Pathways”. In Proceedings of the International Conference on Healthcare Informatics, (ICHI 2016). IEEE Computer Society Press, pages 35–45.
- B.32 F. Zerbatto, B. Oliboni, C. Combi, M. Campos, J. M. Juarez. “BPMN-Based Representation and Comparison of Clinical Pathways for Catheter-Related Bloodstream Infections”. In Proceedings of the International Conference on Healthcare Informatics, (ICHI 2015). IEEE Computer Society Press, pages 346–355.
- B.31 C. Combi, A. Masini, B. Oliboni, M. Zorzi. “A Logical Framework for XML Reference Specification”. In Proceedings of the 26th International Conference on Database and Expert Systems Applications (DEXA 2015). Lecture Notes in Computer Science, Volume 9262, pp. 258–267.
- B.30 C. Combi, B. Oliboni, A. Gabrieli. “Conceptual Modeling of Clinical Pathways: Making Data and Processes Connected”. In Proceedings of the 15th Conference on Artificial Intelligence in Medicine (AIME 15). Lecture Notes in Artificial Intelligence, Volume 9105, pp. 57–62.
- B.29 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “High-level Operations for Creation and Maintenance of Temporal and Conventional Schema in the  $\tau$ XSchema Framework”. In 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.
- B.28 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “Versioning of Conventional Schema in the  $\tau$ 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. ISBN: 978-1-4673-5152-2.



- B.27 Z. Brahmia, R. Bouaziz, F. Grandi, B. Oliboni. “Schema versioning in  $\tau$ 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.
- B.26 F. Cavalieri, 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.
- 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.10 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “Supporting structural evolution of data in web-based systems via schema versioning in the  $\tau$ -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.9 Z. Brahmia, F. Grandi, B. Oliboni, R. Bouaziz. “SSchema Versioning” in 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” in 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. IRM 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.

April 9th, 2019