

# **Publicazioni di Giuseppe Psaila**

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### **Tesi di Dottorato – PhD Thesis**

G.Psaila, “Integrating Data Mining Techniques and Relational Databases (Integrazione di Tecniche di Data Mining e Basi di Dati Relazionali)”, Tesi di Dottorato, Politecnico di Torino, Febbraio 1998

### **Editor di Libri Scientifici – Edited Scientific Books**

E.I. G. Bordogna, G. Psaila (eds.), "Flexible Databases Supporting Imprecision and Uncertainty", Springer, Luglio 2006, ISBN 978-3-540-33288-6.

### **Capitoli di Libri – Book Chapters**

C.1.G. Psaila, "Enhancing the KDD Process in the Relational Database Mining Framework by Quantitative Evaluation of Association Rules", nel libro Knowledge Discovery for Business Information Systems, Kluwer Academic Publisher, Gennaio 2001, ISBN 978-0-7923-7243-1.

C.2.R. Meo, G. Psaila, "XML as a Unifying Model for Inductive Databases", nel libro XML Data Management: Native XML and XML-Enabled Database Systems, Addison Wesley, Gennaio 2003, ISBN 978-0201844528.

C.3.R. Meo, G. Psaila, "Mine Rule", nel libro Encyclopaedia of Data Warehousing and Mining, Idea Group, Luglio 2005, 1-59140-557-2.

C.4.G. Bordogna, M. Pagani, G. Psaila, “Spatial SQL with Customizable Soft Selection Conditions”, nel libro Flexible Databases Supporting Imprecision and Uncertainty, Springer, Luglio 2006, ISBN 978-3-540-33288-6.

C.5.R. Meo, G. Psaila, "An XML Database for Knowledge Discovery: Definition and Implementation", nel libro Intelligent Databases: Technologies and Applications, Idea Group, Settembre 2006, ISBN 1-59904-120-0.

C.6.G. Bordogna, G. Psaila, “Customizable Flexible Querying in Classical Relational Databases”, nel libro Handbook of Research on Fuzzy Information Processing in databases, Information Science Reference, Maggio 2008, ISBN 978-1-59904-854-3.

C.7.G. Bordogna, A. Campi, G. Psaila, S. Ronchi (2009). A flexible language for exploring clustered search results. In: A. Laurent, . . Lesot (eds),. Scalable Fuzzy Algorithms for Data Management and Analysis: Methods and Design. IGI Global, ISBN/ISSN: 9781605668581

C.8.G. Bordogna, A: Campi, G. Psaila, S. Ronchi, Web Search Results Discovery by Multigranular Graphs, in Ramon Brena, Adolfo Guzman eds , “Quantitative Semantics and Soft Computing Methods for the Web: Perspectives and Applications”, IGI Global, October 2011, ISBN13: 9781609608811.

### **Publicazioni su Riviste – Journal Papers**

J.1.S.Comai, P.Fraternali, G.Psaila, “Dimensioni Semantiche Nelle Basi di Dati Attive”, AICA Rivista di Informatica, vol. 26, nr. 3, pagg. 135-160, 1996.

- J.2. E. Baralis, G. Psaila, "Designing Templates for Mining Association Rules", *JIS Journal of Intelligent Information Systems, Special Issue on Data Mining and Knowledge Discovery*, vol. 9, pagg 7-32, 1997 (rivista di classe B, classificazione GRIN).
- J.3. S. Crespi-Reghezzi, G. Psaila, "Grammar Partitioning and Modular Deterministic Parsing", *Journal of Computer Languages*, vol. 24, pp. 197-227, Dicembre 1998 (rivista di classe B, classificazione GRIN).
- J.4. R. Meo, G. Psaila, S. Ceri, "An Extension to SQL for Mining Association Rules", *DMKD Journal on Data Mining and Knowledge Discovery*, 2, pp. 195-224 1998 (rivista di classe A, classificazione GRIN).
- J.5. G. Psaila, D. Brugali, "Issues in Virtual Database Support for Decentralized Knowledge Discovery", *Journal of Digital Information Management JDIM*, Dicembre 2004.
- J.6. G. Bordogna, M. Pagani, G. Pasi, G. Psaila (2009), "Managing Uncertainty in Location-Based Queries", *Journal of Fuzzy Sets and Systems*, Vol. 160, Issue 15, p. 2241-2252, ISSN: 0165-0114. (rivista di classe B, classificazione GRIN), impact factor 1.833.
- J.7. G. Bordogna, G. Psaila (2009). Soft Aggregation in Flexible Databases Querying based on the Vector p-norm. *International Journal of Uncertainty, Fuzziness and Knowledge-based Systems*, vol. 17; p. 25-40, ISSN: 0218-4885, Impact factor 1.0
- J.8. G. Bordogna, G. Psaila (2010). Matrioshka's Soft Approaches to Personalized Web Exploration. *Journal of Control and Cybernetics*, vol. 39(4); p. 925-958, ISSN: 0324-8569, Impact factor 0.560.
- J.9. G. Bordogna, A. Campi, G. Psaila, S. Ronchi, Disambiguated Query Suggestions and Personalized Content-Similarity \and Novelty Ranking of Clustered Results to Optimize Web Searches, *Journal of Information Processing and Management*, 48(3), May 2012, pag. 419-437, ISSN 0306-4573. Impact Factor: 1.786.
- J.10. G. Bordogna, G. Ghisalberti, G. Psaila, Modeling the user's context in Geographic Information Retrieval: the Geo-Finder system, *Journal of Fuzzy Sets and Systems*, 196, June 2012, pag. 105-124. ISSN 0165-0114. Impact Factor: 2.250
- J.11. A. S. De Capitani di Vimercati, S. Foresti, S. Jajodia, S. Paraboschi, G. Psaila, P. Samarati, "Design of a Trust Management Model for Relational Databases", *ACM TWEB Transactions on The Web*, Accettato nel Novembre 2011 ISSN: 1559-1131. Impact Factor: 2.500.

### **Publicazioni a Congressi – Conference Papers**

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2. S. Crespi-Reghezzi, G. Psaila, "Grammatica - ATELIER : Un Laboratorio Aperto per il Progetto dei Linguaggi e dei Compilatori", Conferenza AICA 94, Palermo, Settembre 1994.
3. S. Ceri, P. Fraternali, S. Paraboschi, G. Psaila, "The Algres testbed of CHIMERA : An Object-Oriented Database System", in Proceedings of ACM SIGMOD, San Jose (CA), USA, May 1995.
4. S. Comai, P. Fraternali, G. Psaila, L. Tanca, "A Customizable Model for the Semantics of Active Databases", in Proceedings of Sixth IFIP TC-2 Working Conference on Data Semantics (DS-6), Atlanta (Georgia), USA, May, 30 1995.
5. S. Comai, P. Fraternali, G. Psaila, L. Tanca, "A Uniform Model to Express the Behaviour of Rules with Different Semantics", in Proceedings of ARTDB-95 Workshop on Active and Real Time Databases, Skovde, Sweden, June, 9 1995.

6. R.Agrawal, G.Psaila, "Active Data Mining", in Proceedings of KDD-95 First International Conference on Knowledge Discovery in Databases, Montreal (Canada), August 1995.
7. R.Agrawal, G.Psaila, E.Wimmers, M. Zait, "Querying Shapes of Histories", in Proceedings of VLDB-95 Intl. Conference on Very Large DataBases, Zurich (CH), September 1995.
8. R.Meo, G.Psaila, S.Ceri, "Composite Events in Chimera", in Proceedings of EDBT 96 Int. Conference on Extending DataBase Technology, Avignon (France), March 25-29 1996.
9. S.Crespi-Reghizzi, G.Psaila, M.Pagani, "The Compactness of Extended BNF Semantic Definitions", in Proceedings of the poster session of CC96 Int. Conference on Compiler Construction, Linkoping University, Sweden, Aprile 1996.
10. S.Comai, P.Fraternali, G.Psaila, L.Tanca, "Le Basi di Dati Attive: un Modello di Analisi per le Proprieta` di Terminazione e Determinismo", negli Atti del SEBD-96 Sistemi Evoluti di Basi di Dati, San Miniato (Pisa), Luglio 1996.
11. R.Meo, G.Psaila, S. Ceri, "A New SQL-like Operator for Mining Association Rules", in Proceedings of VLDB-96 International Conference on Very Large Databases, Bombay (INDIA), Settembre 1996.
12. E.Baralis, S.Ceri, R.Meo, G.Psaila, M.Richeldi, P.Risimini, "AMORE: An Integrated Environment for Data Mining", negli atti del SEBD-97 Sistemi Evoluti per Basi di Dati, Verona, 25-27 Giugno 1997.
13. S.Ceri, P.Fraternali, S.Paraboschi, G.Psaila, "Sharing Software Tools on the Web: the IDEA Web Lab", negli atti del DOOD-97 International Conference on Deductive and Object-Oriented Databases, Montreaux, Svizzera, Dicembre 1997.
14. R.Meo, G.Psaila, S.Ceri, "A Tightly-Coupled Architecture for Data Mining", in Proceedings of ICDE-98 International Conference on Data Engineering, Orlando, Febbraio 1998.
15. E.Baralis, R.Meo, G.Psaila, "AMORE: Data Mining on a Relational Database", negli atti della Demo Session di EDBT-98 Extending Database Technology, Valencia, Spain, Marzo 1998.
16. A.Alleva, S.Crespi-Reghizzi, G.Psaila, "Reduction of Parser Size by Grammar Modularization", in Proceedings of the poster session of CC98 International Conference on Compiler Construction, Aprile 1998.
17. E.Baralis, G.Psaila, "Incremental Refinement of Association Rule Mining", nei Proceedings del SEBD-98 Sistemi Evoluti per Basi di Dati , Ancona, Giugno 1998.
18. G.Psaila, S.Crespi-Reghizzi, "Adding Semantics to XML", negli atti di WAGA-99 International Workshop on Attribute Grammars, Amsterdam, 26 Marzo 1999.
19. E.Baralis, R.Meo, G.Psaila, "Data Mining in Data Warehouses", nei Proceedings del SEBD-99 Sistemi Evoluti per Basi di Dati , Como, Giugno 1999.
20. P.L. Lanzi, G.Psaila, "A Relational Database Mining Framework with Classification and Discretization", nei Proceedings del SEBD-99 Sistemi Evoluti per Basi di Dati , Como, Giugno 1999.
21. G.Psaila, "An Exploration Method to Discover Meta-Patterns for Association Rule Mining", nei Proceedings del SEBD-99 Sistemi Evoluti per Basi di Dati , Como, Giugno 1999.
22. E.Baralis, G.Psaila, "Incremental Refinement of Mining Queries", in Proceedings of DaWaK 99 First International Conference on Knowledge Discovery and Data Mining, Firenze, 30 Agosto 1999.
23. G. Psaila, "Discovery of Association Rule Meta-patterns", in Proceedings of DaWaK 99 First International Conference on Knowledge Discovery and Data Mining, Firenze, 30 Agosto 1999.

24. G. Psaila, "A Data Model for Collections of XML Documents", in Proceedings of IEEE KDEX99 IEEE International Workshop on Knowledge and Data Engineering Exchange Workshop, Chicago, 8 Novembre 1999.
25. G. Psaila, "ERX: A Conceptual Model for XML Documents", in Proceedings of ACM SAC'2000 Symposium on Applied Computing, Como, Marzo 2000.
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28. E. Ciapessoni, S. Crespi-Reghizzi, F. Maestri, A. Ornstein, G. Psaila, " Partitioning of Hierarchical Automation Systems", negli atti di EuroMicro Conference 2001, Delft (Olanda), Giugno 2001.
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30. G. Psaila, "ERX-QL: Querying an Entity-Relationship DB to Obtain XML Documents", negli atti di DBPL-01 International Workshop on Database Programming Languages, Monteporzio Catone (Roma), 8-10 Settembre 2001.
31. G. Psaila, "ERX: an Experience in Integrating Entity Relationship Models, Relational Databases and XML Technologies", negli atti del XDM-2002 EDBT International Workshop on XML-based Data Management, Prague (Czech Republic), 24 Marzo 2002.
32. G. Psaila, D. Brugali, "Integrating Relational Databases and XML Technology: the ERX Tool", negli atti del JaDa-2003 International Workshop on Java and Databases, Messekongresszentrum Erfurt, Germany, 7-10 Ottobre, 2002.
33. R. Meo, G. Psaila, "Toward XML-Based Knowledge Discovery Systems", negli atti di ICDM-02 IEEE International Conference on Data Mining,, Maebashi City, Japan, 9-12 Dicembre, 2002.
34. G. Psaila, "Aladin: an Information System for Process-centered Cooperative Editing", negli atti del CEW-2003 ECSCW International Workshop on Cooperative Editing, Helsinki (Finlandia), 15 Settembre 2003.
35. G. Psaila, D. Brugali, "Decentralized Knowledge Discovery for Scientific Collaboration", negli atti del CSSC-2003 ECSCW International Workshop on Computer Supported Scientific Collaboration, Helsinki (Finlandia), 14 Settembre 2003.
36. G. Psaila, "From XML DTDs to Entity Relationship Schemas ", negli atti del XSDM-2003 ER International Workshop on XML Schema Data Management, Chicago (USA), 13 Ottobre 2003.
37. G. Psaila, "Aladin: an Information System for Process-centered Cooperative Editing", nella rivista On-Line IEEE Distributed Systems, URL: <http://dsonline.computer.org/collaborative/events/iwces-5/>
38. D. Brugali, G. Psaila, F. Guidi Polanco, "XML for E-government: a New Approach to E-law Categorization and Retrieval", negli atti di IADIS WWW Internet 2003 Conference, Algarve (Portogallo), 5-8 Novembre 2003.
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42. G. Bordogna, G. Psaila, "Extending SQL with Customizable Soft Selection Conditions", negli atti di SAC-05 ACM International Symposium on Applied Computing, Santa Fe - NM (USA), Marzo 2005.
43. G. Psaila, "An HTTP-based Distributed Architecture Supporting Dynamic Cooperation Processes" negli atti di WBC-05 5<sup>th</sup> International Workshop on Web Based Collaboration in conjunction with DEXA-05 International Conference on Database and Expert Systems Applications, Copenhagen, Denmark, Agosto 2005
44. D. Brugali, G. Psaila, "Automatic Negotiation of Internet Services", negli atti di ITA05 International Conference on Internet Technologies and Applications, Wrexham, North Wales, UK, Settembre 2005.
45. R. Meo, G. Psaila, "An XML-Based Database for Knowledge Discovery", negli atti di PARMA-06 2<sup>nd</sup> International Workshop on Pattern Representation and Management in conjunction with EDBT 2006 Conference," Munich, Germany, 30 Marzo 2006.
46. G. Psaila, "Loosely Coupling Java Algorithms and XML Parsers: a Performance-Oriented Study" negli atti di XSDM-06 3rd International Workshop on XML Schema and Data Management, in conjunction with ICDE-06 The 22nd IEEE International Conference on Data Engineering, Atlanta, Georgia, USA, 4 Aprile 2006.
47. G. Bordogna, M. Pagani, G. Psaila, "Database Model and Algebra for Complex and Heterogeneous Spatial Entities", negli atti di SDH-06 International Conference on Spatial Data Handling,, Vienna, Austria, 13 Luglio 2006.
48. G. Psaila, "On the Problem of Coupling Java Algorithms and XML Parsers (Invited Paper)" negli atti di XANTEC-06 1st International Workshop on XML Data Management Tools & Techniques, in conjunction with DEXA-06 International Conference on Database and Expert Systems Applications, Cracovia, Polonia, 7 Settembre 2006.
49. G. Bordogna, G. Pasi, G. Psaila, "Flexible Location –based Spatial Queries“, negli atti di IFSA 2007 World Congress on Theory and Application of Fuzzy Sets and Soft Computing, Cancun, Messico, 18-21 Giugno 2007.
50. A. Guadalupi, G. Psaila, "Tight Integration of Booking Systems based on XML Message Exchange", negli atti di ICBIIT 2008 International Conference on Business Innovation and Information Technology, Dublino, Irlanda, 24 Gennaio 2008.
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on Information processing and Management of Uncertainty in Knowledge-based Systems, Malaga, Spagna, 22-27 Giugno 2008.

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66. G. Psaila, A Database Model for Heterogeneous Spatial Collections: Definition and Algebra. In Proceedings of ICDKE 2011 International Conference on Knowledge and Data engineering, Milan, Italy, September 2011. ISBN 978-1-4577-0865-7.

67. G. Bordogna, G. Psaila, *Discovering and Analyzing Multi-Granular Web Search Results*. Accepted at FQAS.-2011 International Conference on Flexible Querying Answering Systems, Ghent, Belgium, October, 2011. ISBN 978-3-642-24763-7.