

## Ernesto Damiani

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### Education

Degree of Laurea in Computer Engineering 1987 - Information and System Sciences Department, University of Pavia, Italy.

Ph. D. in Computer Science 1993 - Computer Science Department, University of Milan, Italy.

### Languages spoken

Fluent English (Certificate of Proficiency in English, Cambridge University (UK), 1978).

Working knowledge of French

Elementary German.

### Pre and Post-doc positions

Research Assistant 1988 to 1989  
Information Systems Dept., University of Pavia Pavia, Italy  
*Under a grant funded by Speroni Robotics S.p.A., development of a task-oriented programming language for test robots and its execution environment.*

Adjunct Professor 1994 to 1995  
Technology Department, University of Verona Verona, Italy  
*Teaching of distributed systems and network protocols courses*

Postdoc Researcher 1995  
Information Systems Dept., University of Pavia Pavia, Italy  
*Empirical analysis of reuse practice within component based software architectures*

### Faculty positions

Assistant Professor 1996 to 2000  
Computer Science Dept., University of Milan Milan, Italy  
*Teaching and research. Supervision of B.Sc. theses. Participation to national and international research projects.*

Associate Professor 2000 to 2002  
Computer Technology Dept., University of Milan Milan, Italy  
*Teaching and research. Supervision of B.Sc. and M. Sc theses. Participation to national and international research projects.*

Full Professor 2002 to present  
Computer Technology Dept., University of Milan Milan, Italy  
*Teaching and research; coordination of research labs. Supervision of M. Sc. and Ph.D. theses. Leadership of national and international research projects.*

### Visiting positions

Visiting Lecturer 1998  
Computer Science Dept., LaTrobe University Melbourne, Australia

*Postgraduate teaching and research.*

Visiting Professor 2000  
Computer Science Dept., G. Mason University Fairfax, VA (US)  
*Postgraduate teaching and research.*

Visiting Professor 2000 to present  
e-Business Management School, ISUFI Lecce, Italy  
*Postgraduate teaching.*

Distinguished Research Fellow 2002  
Computer Science Dept., LaTrobe University Melbourne, Australia  
*Postgraduate teaching and research.*

Visiting Professor 2002-2007  
Computer Science Dept., Free Univ. of Bozen Bolzano/Bozen, Italy.  
*Undergraduate Teaching. Member of the Faculty Council, 2005.*

Adjunct Professor 2006 to present  
University of Technology Sydney, Australia  
*Postgraduate teaching and research.*

Ernesto Damiani has been invited for short research visits to a number of international institutions, including the Center for Secure Information Systems, George Mason University Fairfax (VA).

### **Professional activities**

Chairman 2003 to present  
MiPiace.com S.p.A. Piacenza, Italy  
*Setting the company's strategy and supervising its operation.*  
*MiPiace, part of the Enia group owned by the local authorities of the Emilia-Romagna Region of Italy, operates the high-speed fiber optic network in West Emilia and is actively involved in the development of the telecom infrastructure for Emilia-Romagna public sector.*

President 2006 to present  
Usernet Milan, Italy  
*Setting the association's strategy and supervising its operation.*  
*Usernet is a non-profit association of users and companies interested in using technologies for promoting industrial process quality, safety and security.*

Member, IT Strategy Committee 2003 to 2006  
University of Milan Milan, Italy  
*Consultative committee defining the University of Milan's IT and e-learning strategies.*

Technical Editor 1994 to 2003  
Tecniche Nuove S.p.A. Milan, Italy  
*Technical Editor of Internet News and Internet Pro.*  
*Two major Italian newsstand technical magazines on Internet technologies, with a circulation of over 50,000.*

Member, Scientific Council 2007 to present  
Systems and Transport Laboratory, UTBM Belfort, France  
*Evaluating the research activities of the lab and giving suggestions for its research strategy.*

### **Reviewing activities**

Ernesto Damiani is/has been a reviewer of technological projects for the European Commission, the Italian Research Ministry, the Swiss Federal Government and the Government of the Autonomous Territory of Hong-Kong.

### **Activities in Professional Societies and Standardization Bodies**

Vice Chair, ACM SIGAPP, 2000-2005.

Steering Committee Member, Berkeley Special Interest Group on Soft Computing and the Internet, 2003-2005

Member of the Committee on Telecommunications of the Italian Industrial Association, 2003-2005.

Member of the Scientific Committee of the Italian Association for IT and Ethics, 2005 to present

Vice Chair, IEEE Technical Committee on Industrial Informatics. 2006 to present

Vice Chair, IFIP WG 2.12 on Web Data Semantics, 2005 to present

Vice-Chair, IFIP WG 2.13 on Open Source Systems, 2005 to present

Chair IFIP WG 2.6 on Databases, 2007 to present

Ernesto Damiani was the initiator and the first Coordinating Editor of the OASIS standardization Committee on XML-based Access Control Languages that gave rise to the XACML standard specification.

### **Journal and Series Editorial Boards**

Associate Editor, IEEE Transactions on Service Computing, 2008 to present

Area Editor, Journal of Systems Architecture, Elsevier, 2002-present.

Associate Editor, International Journal on Open Source, 2008 to present

Editor in Chief, International Journal of Electronic Trade (IJETrade), Inderscience, 2007 to present

Editorial Board, Journal of Knowledge-Based Intelligent Engineering Systems, IOS Press, 2001-present.

Editorial Board of Applied Computing Review (SIGAPP Bulletin) 1996-2002.

Associate Editor for Europe, International Journal of Technology Enhanced Learning (IJTEL), Inderscience, 2007 to present

Member, Editorial Board, Book Series on Innovative Intelligence (World Scientific), 2005 - present

Editor in Chief, Springer Series on Open Source Applications

### **Guest Editorships**

Special Issue of Soft Computing, Springer, 1998, on Soft Computing for Software Engineering (with M. Fugini)

Special issue of Journal of Pattern Recognition, 2002, on Intelligent Engineering Systems (with R. Howlett)

Special Issues of the International Journal of Computer Systems, Science and Engineering, 2003, 2004. (XML Trends, with Ling Feng, Web Service Security, with H. Maruyama)

Special Issue of the International Journal of Web Engineering Technologies, 2006, on Open Source Collaborative Development (with G. Succi, M. Marchesi).

Special Issue of the Journal of Systems Architecture on Quantitative Techniques for Software Improvement, 2006 (with G. Succi, M. Marchesi)

### **Conference Chairmanships (partial)**

- Local Arrangements Chair, ACM Symposium on Applied Computing (SAC '00), Como, Italy 2000.
- General Chair, Sixth International Conference on Knowledge-Based Intelligent Engineering Systems, Crema (KES '02), Italy, 2002.
- Chair, OTM Workshop on Metadata for Security (WMS)), Catania, Italy, 2003.
- Chair, ACM FSEWorkshop on Quantitative Techniques for Software Process Improvement (QUTE-SWAP), Newport, CA, US, 2004.
- Chair, ACM Workshop on Secure Web Services (SWS) 2004-present.
- Regional Coordinator for Southern Europe, VII International Conference on Computational Intelligence (Fuzzy Days), Dortmund 2003.
- Organizer, invited session on Intelligent Techniques For Knowledge Extraction and Management, at the VIII International Conference on Computational Intelligence (Fuzzy Days), Dortmund 2004.
- Track Chair, 3rd IEEE International Conference on Industrial Informatics (INDIN '05), Perth, WA, Australia, 2005.
- Track Chair, FLAIRS '05 special track on computational intelligence and the Web.
- Chair, Workshop on Experience Computing, International Conference on Knowledge-based Engineering Systems (KES '05), Melbourne, Australia, 2005.
- Organizing and Workshop Chair, 2nd International Conference on Open Source Systems (OSS2006), Como, Italy, 2006.
- Organizer, invited session Soft Computing Techniques for Web Intelligence at the 7th International FLINS Conference on Applied Artificial Intelligence (2006).
- Organizing and Tutorial Chair, International Conference on XP programming, (XP2007), Como, Italy, 2007.
- Program Chair, IFIP WG 11.3 Working Conference on Database Security (DBsec 2006), Sophia Antipolis, 2007
- Tutorial Chair, 3rd International Conference on Open Source Systems (OSS 2007), Limerick, Ireland, 2007.
- General Chair, IEEE Conference on Digital Ecosystems, Cairns, Australia (2006).
- Chair, DEXA workshop on e-learning technologies (Elsys 07), Regensburg 2007
- Program Chair, Second Conference on Knowledge Management in Organizations, Lecce, Italy, 2007

### **Conference Program Committees (partial)**

- Steering Committee of the ACM Symposium on Applied Computing (Fuzzy Application Chair) 1996-2001.
- Organizer, OOPSLA Mid-Year Workshop on Distributed O-O Architectures for Finance, 1997.
- Program Committee, International Conference on Computational Intelligence 1999-present.
- Organizer, Special Session on Intelligent Techniques for Internet Resources, International Conference on Knowledge-Based Intelligent Engineering Systems (KES '00), Brighton, UK, 2000.
- Program Committee, Flexible Query Answering Symposium (FQAS) 2000-present. (Organization Committee member in 2006)
- Program Committee, Security and E-commerce Track, World Wide Web Conference, Hong Kong, 2002.
- Program Committee ICT-Eurasia Conference on Information Technology, Iran, 2002.
- Program Committee ACM-CCS Workshop on XML Security, Washington, D.C. (US), 2003.
- Program Committee, Annual Computer Security Applications Conference (ACSAC), 2004-2006.

Program Committee, The 1st International Conference on Open Source Systems (OSS '05), Genova, Italy, 2005.

Program Committee, International Workshop on Semantic Web Technologies in Electronic Business, Berlin, Germany, 2004.

Program Committee, ICDE Workshop on Privacy Data Management (PDM '05), 2005

Program Committee, 2nd International Conference on Trust, Privacy, and Security in Digital Business (TRUSTBUS 05), Regensburg, Germany.

Program Committee, 10th European Symposium on Research in Computer Security (ESORICS '05), Milan, Italy 2005.

Program Committee, IEEE International Workshop on Service-Oriented Solutions for Cooperative Organizations (SoS4CO '05), 2005.

Program Committee, International Symposium on Telecommunication (IST '05), Shiraz, Iran, 2005.

Program Committee, 1st IEEE Intl. Workshop on Service oriented Solutions for Cooperative Organizations (SoS4CO '05), Munich, Germany, 2005

Program Committee, International Conference on Web Engineering (ICWE), 2005 to present

Program Committee, VLDB Workshop on Secure Data Management (SDM 05), 2005 to present

Steering Committee, IEEE Conference on Signal and Image Technology (SITIS), 2005 to present

Program Committee, Workshop on Security in Information Systems (WOSIS), 2005 to present

Program Committee, International Workshop on Web Semantics (SWWS), OTM Conferences, 2005 to present

Program Committee, 1st International Conference on Information Systems Security (ICISS 05), Calcutta, India, 2005.

Program Committee, IX International Conference on Computational Intelligence (Fuzzy Days), Dortmund, Germany, 2006.

Program Committee, ODBASE 07 OTM Conferences, 2007

### **Organization of International Ph.D. Schools**

Steering Committee Member, Advanced International Summer School on Innovation in the e-Enterprise, Ostuni, Italy, 5-8 July 2006

Steering Committee Member, Advanced International Summer School on Perspectives on Technological Entrepreneurship, Ostuni, Italy, 11-14 July 2007

Steering Committee Member, First KES Doctoral School on Artificial Immune Systems AIS 2007 September 17th -19th, 2007, Vietri sul Mare, Salerno, Italy

Steering Committee Member, 2nd European Summer School on Agile Programming, Varese, Italy, June 25-29, 2007

### **Teaching Experience**

Ernesto Damiani routinely teaches courses at graduate and undergraduate levels at several Italian and international institutions. He has always been keen on using e-learning techniques within the IT degrees curricula: as early as 1997, he authored one of the first open content, Web-based courses on Internet technologies, widely distributed in Italy and attended by hundreds of students.

Ernesto Damiani has been one of the proposers and is now the coordinator of the Online Edition of University of Milan's Bachelor Degree on Systems and Network Security. He is/has been Director of several IFTS vocational courses sponsored by the European Social Fund and co-organized by the University of Milan. Ernesto Damiani is a member of the Computer Science Ph.D. Committee at the University of Milan, and of the Advisory Ph. D. Committee at the University of Trento, Italy.

He is a reviewer for several international Ph. D. committees, including the Universities of Belfort, Dijon and Pau (France).

### **Undergraduate Courses - Italian Universities**

- A.A. 94/95. Formal Languages and Compilers (University of Pavia).
- A.A. 94/95. Distributed Systems. (University of Verona).
- A.A. 98/99 - 99/00. Computer Networks. (University of Milan at Crema).
- A.A. 98/99 - present. Software Engineering. (University of Milan at Crema).
- A.A. 99/00 - present. Distributed Systems (University of Milan at Crema).
- A.A. 00/01 Introduction to Databases (University of Milan-Bicocca).
- A.A. 01/02 - 06-07 Operating Systems (University of Bolzano-Bozen).
- A.A. 01/02 - 03/04 Web Technologies(University of Milan at Crema).
- A.A. 02/03 - 06/07 Computer Systems Architecture(University of Bolzano- Bozen).

### **Undergraduate Courses - International Universities**

- A.A. 98/99 - 99/00 Advanced WWW Technology (CS42EAT), LaTrobe University, Melbourne, Australia.
- A.A. 99/00 Programming Languages and Compilers (CS440), George Mason University, Fairfax, VA, US.
- A.A. 01/02, Semantic Web Technology (CS42SWT), LaTrobe University, Melbourne, Australia.

### **Postgraduate Courses - Italian Universities**

- A.A. 98/99 Semantics of Semi-Structured Information, Ph. D. program in Computer Engineering, Politecnico di Milano.
- A.A. 98/99 - present Knowledge Representation and Management, Master program in e-Business, e-Business Management School (ISUFI), University of Lecce.
- A.A. 04/05 - present: Metadata and Knowledge Management, Master Program in Computer Science, University of Milan at Crema.
- A.A. 04/05 - present: Advanced Network Protocols, Master Program in Computer Science, University of Milan at Crema.

### **Postgraduate Courses - International Universities**

- Meta-modeling and XMI, Ph.D.program in Computer Science, George Mason University, Fairfax, VA, US.
- XML Applications to Information Processing, Ph.D. program in Computer Science, University "Carlos III", Madrid, Spain.

### **Keynote Talks and Awards**

- Fuzzy Selection of Distributed Components, 25th Anniversary Colloquium, University of Dortmund (Germany), December 1997.
- Dissemination and Tailoring of Scientific Information via XML, Culture Track of the IX World Wide Web Conference (WWW9, Amsterdam, May 2000).
- Distributed Object-Oriented Environments, Warsaw University of Science and Technology, Warsaw (Poland), November 2000.
- Human-Centered Electronic Commerce, ACM Symposium on Applied Computing, Como, Italy, March 2000 (with R. Khosla).

Seguridad en Documentos Multimedia con XML, Seguridad en Documentos Multimedia con XML, Madrid (2002)

Towards Semantics-Aware Access Control. DBSec 2004, Sitges, Spain (2004).

Privacy-Aware Identity Management, WOSIS 2005, Miami, FL, US.

Exploiting Location-based and Video Information in Negotiated Access Control Policies, ICISS 2005, Calcutta, India.

Fuzzy Techniques for Trust Management, Fuzzy Days, Dortmund, Germany, 2007

Representing and Validating Digital Business Processes, Webist 2007, Barcelona, Spain, 2007

In March 2000, Ernesto Damiani was awarded the ACM-SIGAPP Outstanding Service Award.

## Ernesto Damiani

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### Research Activities

Ernesto Damiani has published more than 150 research papers and a number of books both in English and Italian. He is the coordinator of the SESAR lab (<http://sesar.crema.unimi.it>) at the Department of Information technology and coordinates several research contracts between the University of Milan, other research institutions (e.g., University of Lecce-ISUFI) and companies. His research interests involve a diverse range of areas, including:

*Emergent semantics and knowledge processing* In modern large scale distributed systems, information semantics cannot be fixed once for all at design time. The notion of emergent semantics encompasses all information on data semantics which emerge as the result of user communities collective behavior. Research on this topic includes relationship with the notion of trust and the influence of malicious behavior on emergent semantics.

*Software process analysis and engineering* Advanced representation and monitoring of business processes, including the software development one, is a key notion for successfully managing inter-organizational processes. Research deals with metrics of process and product quality and maturity (including advanced testing), measurements for computing these metrics and intelligence for acting upon results. Special attention has been devoted to open source development and open source architectures for advanced applications, including networking and telecommunications.

*Design of secure distributed Web-based systems and services.* Semantic Web systems introduce advanced techniques for representing the semantics of resources, including computational services and multimedia. Research deals on establishing and enforcing governance policies on large scale web-based systems, taking semantics into account.

*Advanced secure network architectures.* Modern networks use cross-layering techniques for sharing information on the network internal operation. This information can be used to control the network itself, as well as for developing value added services. Research includes platform for protocol information sharing and management on complex networks and the development of services based on them.

Ernesto Damiani participates in and/or coordinates several research projects funded by the European Union, the Italian Research Ministry (MIUR) and by private companies.

### Project Participation

Ernesto Damiani has taken part in the following projects funded by the European Commission and by the Italian research ministry:

FASTER: Flexible Access to Statistics, Tables, and Electronic Resources (IST - Information Society Technologies, FP5) (2000-2001)

MURST-Cofin Interdata University of Verona (1996-98)

MURST-Cofin DataX, Polytechnic of Milan (1998-2000)

PRIME, (IST - Information Society Technologies) (2004-2007)

### Project Coordination

Ernesto Damiani is/has been the coordinator of the following projects funded by the European Commission and by the Italian research ministry:

SecureSCM, FP7project (Research Unit Coordinator)(2008- present)

MURST-FIRB MAPS, University of Milan (Research Unit Coordinator)(2002- 2006)

MURST-PNR Pitagora, University of Milan (Research Unit Coordinator)(2002- 2004)

MURST-FIRB KIWI, University of Milan (National Coordinator) (2002- 2006)

MURST-FIRB TEKNE, University of Milan (Research Unit Coordinator) (2007 to present)

### **Company sponsored grants**

Ernesto Damiani is the coordinator of the SESAR lab (<http://sesar.crema.unimi.it>) and coordinates several research contracts between the University of Milan, other research institutions (e.g., University of Lecce-ISUFI) and companies. Some of SESAR research grants have been provided by the following companies:

Siemens Telecommunications (now Nokia Siemens Networks)

British Telecom Research (now BT Exact)

Engineering Ingegneria Informatica

Cisco Photonics

ST Microelectronics

Softpeople S.p.A.

Onion S.p.A.

### **Funding**

In the period 2005-2008, the total amount of research contracts coordinated by Ernesto Damiani was in excess of Euro 2.000.000. Of those, more than Euro 1.000.000 came from company grants.

### **International Patents**

M. Anisetti, C.A. Ardagna, V. Bellandi, E. Damiani, S. Reale “Positioning Method and System for Mobile Communications Networks”, Related networks and Computer Program Product, European Patent filed No. 05425643.3

P. Ceravolo, E. Damiani, M. Leida, Z. Cui, “Ontology-based Integration of Relational Data sources”, European Patent filed.

### **International Books and Chapters**

R. Khosla, I. Sethi, E. Damiani , “Intelligent Multimedia Multiagent Systems: A Human-Centered Approach”, Kluwer Intelligent System Series, December 2000.

R. Khosla, E. Damiani , B. Grosky, “Human-Centered e-Business”, Kluwer Intel- ligent System Series, February 2003.

E. Damiani , M. Madravio, L.C. Jain (eds.). “Soft Computing And Software Engineering”. Studies In Fuzziness And Soft Computing. Springer

E. Damiani, T. Janssen, D. Rine , “The Unified Modeling Process in Web Deployed, O-O Database Systems”, Chapter in: A. Chaudhri, R. Zicari (eds.), Succeeding with Object Databases J. Wiley, December 2000.

E. Damiani, “Fuzzy Retrieval of O-O Software Components”, Chapter in: B. Reusch, K-H. Temme (eds.), Computational Intelligence in Theory and Practice, Advances in Soft Computing Series, Physica-Verlag, 2000.

E. Damiani, R. Khosla, S.Kitjongthawonkul, “A Human-Centered Ap- proach For Intelligent Internet Applications” , Chapter in: V. Loia, S. Sessa (eds.), Soft Computing Agents, Vol. 75 n.221 (2001) Physica-Verlag, 2001.

E. Damiani, “Distributed Object Protocols: Overview and Opportunities for Fuzzy Research” , Chap- ter in: Kacprzyk J., Krawczak M. and Zaro- dzny S. (eds.) ”Lectures on Developments in IT and Managerial Decision Support”, Warsaw School of Information Technology and Management.

E. Damiani, N. Lavarini, S. Marrara, B. Oliboni, L. Tanca, "Flexible Queries to XML Information", Chapter in: Jain L., Howlett R. (eds.) "Intelligent Internet Systems", World Scientific.

E. Fernandez-Medina, S. De Capitani di Vimercati, E. Damiani, M. Piattini, "Multimedia Security and Digital Rights", Chapter in: M.G. Fugini, C. Bellettini (eds.), "Modern Security", IOS Press, 2004.

A. Corallo, M. Cremonini, E. Damiani, S. De Capitani di Vimercati, G. Elia, P. Samarati, "Mobile and Wireless systems beyond 3G: Managing New Business Opportunities", Chapter in: "Security, privacy and trust in mobile systems and applications", M. Pagani (ed.), Idea Group Inc., 2005.

P. Ceravolo, A. Corallo, E. Damiani, G. Elia, M. Viviani, A. Zilli: "Bottom- up extraction and maintenance of ontology-based metadata", Chapter in Capturing Intelligence: Fuzzy Logic and the Semantic Web, Elie Sanchez (ed.), Elsevier.

P. Ceravolo, E. Damiani, M. Viviani: "Adding a Trust Layer to Semantic Web Metadata Chapter in Soft Computing for Information Retrieval on the Web", F. Crestani, E. Herrera-Viedma, G. Pasi (eds.), Elsevier

E. Damiani, G. Passiante, A. Zilli (eds) Semantic knowledge management: an ontology based framework, Idea group, to appear.

### **IEEE and ACM Transactions**

P. Bosc, E. Damiani, M.G. Fugini "Fuzzy Service Selection in a Distributed O-O Environment", IEEE Trans. on Fuzzy Systems, vol. 9 (5) (2001) pp. 682-698.

E. Damiani, M.G. Fugini, C. Bellettini "A Hierarchy-Aware Approach to Faceted Classification of Object Oriented Components" ACM Trans. on Software Engineering Methodologies, Vol. 8 n.3 (1999) pp.215-262.

E. Damiani, S. De Capitani, S. Paraboschi, P. Samarati "A Fine-Grained Access Control System for XML Documents" ACM Trans. on Information and System Security, vol. 5 n. 2 (2002) pp.169-202.

S. Comai, E. Damiani, P. Fraternali "Computing Graphical Queries over XML Data" ACM Trans. on Information Systems, vol. 19 (4), pp.371-430 (2001).

E. Damiani, S. De Capitani, S. Paraboschi, P. Samarati "Managing and Sharing Servents' Reputations in P2P Systems", IEEE Trans. Knowl. Data Eng., vol. 15 n. 4 (2003) pp.840-854.

A. Ceselli, E. Damiani, S. De Capitani di Vimercati, S. Jajodia, S. Paraboschi, P. Samarati, "Modeling and assessing inference exposure in encrypted databases". ACM Trans. Inf. Syst. Secur. 8(1): (2005) pp. 119-152.

P. Ceravolo, E. Damiani, M. Viviani, "Bottom-Up Extraction and Trust-Based Refinement of Ontology Metadata". IEEE Trans. Knowl. Data Eng. 19(2): 149-163 (2007)

C. Ardagna, A. Colombo, E. Damiani, F. Frati, N. Jonsou, "Learning Computer Networking on Open Para-Virtual Labs", IEEE Trans. on Education, September 2007

Gwanggil Jeon, Marco Anisetti, Valerio Bellandi, Jechang Jeong, Fuzzy Rule-Based Edge-Restoration Algorithm in HDTV Interlaced Sequences, IEEE Transactions on Consumer Electronics, May 2007.

### **IEEE and ACM Magazines**

E. Damiani, M.G. Fugini, A. Fusaschi, "A Descriptor Based Approach to O-O Code Reuse", IEEE Computer Vol.30 n.10, (1997), pp. 73-80.

E. Damiani, S. De Capitani di Vimercati, P. Samarati, "Controlling Access to XML Documents", IEEE Internet Computing vol.5 n. 6 (2001), pp.18-28.

E. Damiani, S. De Capitani di Vimercati, P. Samarati, "Managing Multiple and Dependable Identities", IEEE Internet Computing vol.7 n.6 (2003), pp. 29-37

### **International Journals: Secure Distributed Systems and Knowledge Representation**

- E. Damiani, O. D'Antona, Le Van Huu, "The Design of a Microkernel Application Platform for Shop-Floor Automation", *Future Generation Computer Systems*, (FGCS) vol. 8, (1991), pp. 257-259.
- S. Ceri, S. Comai, E. Damiani, P. Fraternali, S. Paraboschi, L. Tanca, "XML-GL: A Graphical Language for Querying and Restructuring XML Documents", *Computer Networks* vol. 31, (1999), pp. 1171-1187.
- E. Damiani, "A Fuzzy Stateless Approach to Load Distribution for O-O Distributed Environments", *Intl. Journal of Knowledge-Based Intelligent Engineering Systems*, 1999, vol. 3 n. 4.
- S. Comai, E. Damiani, L. Tanca "Graphical Query Languages for the World Wide Web: a Logic Programming Approach", *Vivek, An AI Quarterly*, vol. 12 n. 1 (1999).
- E. Damiani, L. Tanca, F. Arcelli Fontana "XML Queries via Context-Based Choice of Aggregations", *Kybernetika*, 2000, vol. 36 n. 6.
- E. Damiani, S. De Capitani di Vimercati, S. Paraboschi, P. Samarati, "Design and Implementation of an Access Control Processor for XML Documents", *Computer Networks*, vol. 33, no. 1-6, 2000, pp. 59-75.
- E. Damiani, M.G. Fugini, "Dynamic Service Identification in A Distributed Environment" *Journal of Advanced Computational Intelligence (JACI)*, Vol. 3 n. 8 (2000).
- E. Damiani, S. De Capitani di Vimercati, S. Paraboschi, P. Samarati, "Securing SOAP E-services", *International Journal of Information Security*, vol. 1 n. 2 (2002), pp. 100-115.
- E. Damiani, R. Khosla, Granulating XML Information, "Archives of Control Sciences", Vol. 12, No. 4, 2002, pp. 411-431.
- E. Damiani, S. De Capitani di Vimercati, S. Paraboschi, P. Samarati "XML access control systems: a component-based approach". *Informatica (Slovenia)*, 2002, vol. 26 n. 2.
- R. Aringhieri, E. Damiani, S. De Capitani Di Vimercati, S. Paraboschi, P. Samarati, "Fuzzy Techniques for Trust and Reputation Management in Anonymous P2P Systems", *Journal of the American Society for Information Science and Technology (JASIST)* 57(4): 528-537 (2006)
- P. Cudr-Mauroux, K. Aberer, A. I. Abdelmoty, T. Catarci, E. Damiani, A. Illaramendi, M. Jarrar, R. Meersman, E. J. Neuhold, C. Parent, K. Sattler, M. Scannapieco, S. Spaccapietra, P. Spyns, G. De Tr: "Viewpoints on Emergent Semantics". *J. Data Semantics VI*: 1-27 (2006)

### **International Journals: Software Engineering**

- S. Faustle, M.G. Fugini, E. Damiani, "Retrieval of Reusable Components Using Functional Similarity", *Software Practice and Experience*, (SPE) vol. 26 n. 5, (1996), pp. 491-530.
- E. Damiani, M.G. Fugini, "Design and Code Reuse Based on Fuzzy Classification of Components", *International Journal on Applied Software Technology*, (IJAST) vol. 1. n. 3/4, (1995) pp. 291-303 Re-published by *Applied Computing Review*, (ACR) (1996).
- C. Bellettini, E. Damiani, M.G. Fugini, "Software Reuse in the Small: Automating Group Rewarding", *Information and Software Technology*, vol. 43 (2001), pp. 651-660.
- A. Colombo, E. Damiani, G. Gianini: "Discovering the software process by means of stochastic workflow analysis". *Journal of Systems Architecture* 52(11): 684-692 (2006)

### **International Journals: Soft Computing**

- E. Damiani, G. Degli Antoni, A. Tettamanzi, "DEE: a Tool for Genetic Tuning of Software Components on a Distributed Network of Workstations", *International Journal on Applied Software Technology (IJAST)*, 1998, vol. 3 n. 2/3, pp. 127-144.
- E. Damiani, V. Liberali, A. Tettamanzi, "FPGA-based Hash Circuit Synthesis with Evolutionary Algorithms", *IEICE Transactions on Fundamentals*, 1999, vol. 82-A n. 9, pp. 1-9.

### **International Journals: Combinatorics and Theoretical Computer Science**

- E. Damiani O.D'Antona, G.Naldi, L.Pavarino, "Tiling Bricks with Bricks" Studies in Applied Mathematics, vol. 83 n.2, 1990, pp.91-110.
- E. Damiani O.D'Antona, G. Naldi, "On the Connection Constants", Studies in Applied Mathematics, vol. 85 n.4 , 1991, pp.289-302.
- E.Damiani, O.D'Antona, F.Regonati, "Whitney Numbers of Some Geometric Lattices" Journal of Combinatorial Theory (A) vol.65 n.1, 1994.
- D.Loeb, E.Damiani, O.D'Antona, "Decompositions of  $B_n$  and  $\Pi_n$  Using Symmetric Chains", Journal of Combinatorial Theory (A) vol.65 n.1, 1994, pp.151-157.
- E.Damiani, O.D'Antona, P. Salemi, "An Upper Bound To the Crossing Number of the Complete Graph Drawn on the Pages of a Book", Journal of Combinatorics, Information and System Sciences, 1994, vol. 19 n. 1-2
- E.Damiani, O.D'Antona, D.Loeb, "The Complimentary Symmetric Function: Connection Constants Using Negative Sets", Advances in Mathematics, 1998, vol.135 n.2, pp. 207-219.

### **Electronic Journals**

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