Prof. Valeria De Antonellis

ACADEMIC CAREER
Graduated cum laude in Physics from University of Milano, is full professor of Information Systems at the University of Brescia. Previously she has been full professor and Chair of the Informatics Institute at the University of Ancona (1994-1996), associate professor at Politecnico di Milano (1991-1994) and at University of Milano (1989-1991).

RESEARCH TOPICS
Her research interests include:
INFORMATION SYSTEMS AND DATABASES: advanced database and web information system design - conceptual models and semantic representation of data, processes, services – schema matching and semantic integration – process analysis and reengineering - service design.
SEMANTIC WEB: web data and web services search and ranking - ontologies and semantic interoperability - semantic web service matchmaking and discovery.
Current research activity focuses on: models, methods and tools for semantic description and search of data services, semantic representation of heterogeneous components (RSS/Atom feed, RESTful and SOAP services), recommendation services to support user in exploration and agile composition (mashup) of data services.
She published in main peer-reviewed journals of the field (including ACM TODS, IEEE TKDE, IEEE TSE, IEEE TSC, Information Systems, WWW), and in the proceedings of the main international conferences of the field (including ACM-SIGMOD, VLDB, ICDE, CAiSE, WISE, ICWE, ER). She is co-author of the books: Relational Database Theory (Benjamin/Cummings 1993, ISBN 0-8053-0249-2) and La Teoria Relazionale dei Dati (Bollati Boringhieri , ISBN: 88-339-5031-X, 1985). Co-editor of the book: Computer-Aided Database Design: the DATAID approach (North-Holland 1985, ISBN 0-444-87735-5).

EXPERIENCES IN LEADING PROJECTS AND RESEARCH GROUPS
She currently leads the research group on "Databases, Information systems and Web" at the Information Engineering Department, University of Brescia.
She has been working within several national and international research projects and collaborations, coordinating parts of or whole projects.
She led the national DATAID research project (Progetto Finalizzato CNR) originating the DATAID-1 methodology for the analysis, design and implementation of database systems (cited in People Behind Informatics: The history of Conceptual Modeling, http://cs-exhibitions.uni-klu.ac.at/index.php?id=441). In particular, she promoted the conceptual modeling of both data and processes in the methodology anticipating
issues of the object-oriented methodologies.
European projects:
- OSSAD (Office Support Systems Analysis and Design);
- ITHACA (Integrated Toolkit for Highly Advanced Commercial Applications);
- F3 (From Fuzzy to Formal);
- RENOIR (network of excellence, Requirements Engineering Network Of International cooperating Research groups);
- RECITE II - DEAFIN (Development Agencies and their impact on Foreign direct Investment);
- INTEROP (network of excellence, INTEROPerability of enterprise applications and software);
- LEARNING SUSTAINABILITY (service environment for civic sustainability, with Mobile Experience Lab of MIT Massachusetts Institute of Technology and Provincia di Brescia).
Main recent Italian national projects:
- VISPO (Virtual District Internet-based Service Platform, MIUR Ricerca di interesse strategico);
- MAIS (Multichannel Adaptive Information Systems, MIUR progetto FIRB);
- ESTEEM (Emergent Semantics and cooperaTion in multi-knowledgE EnvironMents - Advanced methods and tools for semantic cooperation in Web virtual communities, MIUR progetto PRIN);
- TEKNE (Towards Evolving Knowledge-based interNetworked Enterprise, MIUR progetto FIRB).
- European FEASR "Portale integrato per la tracciabilità di filiera e la trasparenza dei prodotti di IV gamma nel comparto ortofrutta";
- SCUOLA (Smart Campus as Urban Open Labs), Regione Lombardia Smart Cities and Communities;
- SMART BREAK – Smart Bialetti REestoration Adaptive Kit, Regione Lombardia Smart Cities and Communities;
- "Cluster Tecnologici Nazionali" Bando DD332, CTN01_00163 CFI - Cluster Fabbrica Intelligente;

- "Smart Cities and Communities and Social Innovation" Bando DD591, SCN_00416 BRESCIA SMART LIVING Energia e servizi integrati per la valorizzazione del benessere.

SERVICE ACTIVITIES

She has been part of the program committee in numerous international conferences, and referee for several international journals.
Co-founder and member of the Steering Committee of the Italian Conference SEBD (Advanced Systems for Databases) since 2007.
She has been Chair of the AICA Working Group on Databases (1990-1997).
Recent activities:
Member of the "ER International Conference on Conceptual Modeling" Steering Committee since 2012.
Member of the Editorial Board of the International Journal on Data&Knowledge Engineering, since 2013.
Member of the Scientific Committee of "Collana di Informatica", ed. Franco Angeli, since 2011.
General co-chair of ER2012 in Florence.
General co-chair of the annual EDBT Conference's International Workshop on Linked Web Data Management since 2011.
General chair of SEBD2009, 17th Italian Symposium on Advanced Database Systems, Camogli (Genova), Italy.

MAIN Ph.D STUDENTS

Silvana Castano VI ciclo. - A.A. 1991-93
Michele Melchiori XIV ciclo. - A.A. 1998-01
Devis Bianchini XIX ciclo. - A.A. 2003-06

RECENT AWARDS

2012 Outstanding contribution as Conference Co-Chair 31st International Conference on Conceptual Modeling,
ER2012, Florence, Italy.
2013 Best Paper Award: "A Multi-perspective Framework for Web API Search in Enterprise Mashup Design" (coauthors Devis Bianchini e Michele Melchiori), 25th International Conference on Advanced Information Systems Engineering, CAiSE2013,Valencia, Spain.

ACADEMIC ACTIVITIES

Rector's Delegate for Information Systems Innovation since November 2010.
Rector's Delegate for the University Library System since 2011.
President of the Information Systems Innovation Committee at University of Brescia since 2011.
President of the University Library System Scientific Council since 2011.
Member of the University's Quality Committee since 2013.
She has been chair of the PhD program in "Information Engineering" and led its transformation into the PhD Program in "Computer Science, Engineering and Systems Control" at the University of Brescia (2000-2011).
She has been responsible for the creation and organization of the Bachelor and Master Degree programs in "Computer Science and Engineering" at the University of Brescia (2000-2012).
Chair of the University Competence Centre for EUCIP (European Certification of Informatics Professionals) at University of Brescia since 2005.
Co-founder and executive committee member of the Italian Pole of Scientific and technological Reserch on Interoperability "Interop-Vlab.IT" (2008-2014).
Member of the Scientific Council of the University's Research Center on Archaeometry (2005-2012).
Rector's Delegate at GARR since 2014.
Member of the CINECA Executive Board since 2013.
Member of the CINECA Board of Directors and CILEA Board of Directors (2010-2012).
Member of the CINI Executive Board since 2008.
University's Representative at CRUI since 2011.
University's representative at GII since 2005.