

CURRICULUM VITAE ET STUDIORUM

CINZIA CAPPIELLO

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Place and Date of birth Milan, 01 January 1975

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Appointment **POLITECNICO DI MILANO, MILAN, ITALY**
Dipartimento di Elettronica, Informazione e Bioingegneria
Assistant Professor (Tenured) - since 01 March 2011

Past position

2009-2011 **Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di milano, Milan, Italy**
Assistant Professor (Fixed term)

2005-2009 **Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di milano, Milan, Italy**
Research Fellow

Education

2002-2005 **Politecnico di Milano, Milan, Italy**
Ph.D. in Information Technology –
Dissertation: "Data Quality and multichannel services"
Advisor Prof. Barbara Pernici, Co-Advisor Prof. Chiara Francalanci

1993-2001 **Politecnico di Milano, Milano, Italy**
Master in Computer Science Engineering

Positions as Visiting researcher

May 2017 **Universidad de la Republica, Montevideo, Uruguay**
Visiting Researcher and Teacher

August 2015 - **University of New South Wales (UNSW), Sydney, Australia**
Visiting Researcher

August 2013 – September 2013 **University of New South Wales (UNSW), Sydney, Australia**
Visiting Researcher

August 2003- **Dublin City University (DCU), Dublin, Ireland**
February 2004 Visiting Researcher

Research interests

DATA QUALITY

- Data quality assessment: definition of algorithms to support the evaluation of data quality dimensions.
- Data quality analysis: development of frameworks to support the analysis of business processes, in order to detect and analyze data quality problems.
- Data quality improvement: algorithms for data cleaning and data deduplication for structured and unstructured data. Costs and benefits evaluation of data quality improvement methods.

Data quality research has been conducted in different contexts such as web services, data warehouse architectures, wireless sensor networks, Web applications (i.e., mashups), Big data, IoT.

DESIGN OF ADAPTIVE AND RELIABLE SERVICE-BASED APPLICATIONS

- Analysis of quality of service (QoS) dimensions: definition of a quality model, assessment metrics and analysis of dependencies among the different dimensions.
- Software as a Service: design of architectures to share operational services (e.g., ERP) by using SOA technology. Analysis of legacy modernization issues.
- Evaluation of actions for guaranteeing service dependability
- Process modelling and service identification.
- Design of adaptive service-based applications.

GREEN IT

- Application Energy efficiency: development of a methodology for the design of energy-aware adaptive applications.

Research Projects

- 2017-2019 **SOMNUS**
Polimi Unit responsible in SOMNUS project, a two years Regional project that aims to design a sensor t-shirt for monitoring sleep disorders. We are responsible for analysing the quality of data and to design an app for exploring data.
- 2017-2019 **DITAS**
WP leader in DITAS project, a three years European project that aims to propose a framework to overcome the barriers that now hamper the adoption of Cloud Computing and increase the adoption of Fog computing by exploiting the full potential of these two paradigms in a

synergic way. Leads WP2 - Enhanced data management.

- 2016-2017 **EUBra – BIGSEA**
Task leader in EUBRA BIGSEA project, a two years European project that aims to build an integrated, elastic, and dynamic platform to address knowledge discovery by considering Big data issues as well as privacy, security, QoS and data quality challenges. Lead Task 4.4 Data Quality as a Service (DQaS).
- 2012-2014 **ECO₂Clouds**
Participating in ECO₂Clouds a two-year European project that aims to investigate strategies that can both ensure effective application deployment on the Cloud infrastructure and reduce energy consumption and CO₂ emissions.
- 2010-2012 **SENSORI**
Participated in SENSORI a three-year national project that aims to develop tools for monitoring and managing energy efficiency in buildings.
- 2010-2012 **GAMES**
Participated in GAMES (Green Active Management of Energy in IT Service centres) a three years European project that aims at developing a set of innovative methodologies and Open Source ICT tools for designing and managing energy efficiency in IT Service Centres.
- 2008-2012 **S-Cube (Network of Excellence)**
Participated in S-cube, as part of the Politecnico di Milano unit, on the identification of a methodology for the design of self-healing Web services.
- 2006-2011 **FIRB TEKNE**
Participated in four-year national project, as part of the Politecnico di Milano unit, on the identification and assessment of data and service quality dimensions in systems the adopt SOA technology for the sharing of operating information systems utilities in “Internetworked enterprise” environments.
- 2005-2008 **WS-DIAMOND**
Participated in three-year european project on the evaluation, monitoring, and diagnosis of Web service architectures as part of the Politecnico di Milano unit. The research focuses on data quality and service quality dimensions relevant for the preventive diagnosis of the services offered through digital channels.
- 2004- 2006 **FIRB MAIS**
Participated in three-year national project on the analysis of Multi-channel Adaptive Information Systems as part of the Politecnico di Milano unit. The main research activity is related to the analysis of

QoS dimensions relevant in the selection of Web services.

2002-2003 **MIUR-MURST COFIN DaQuinCIS**
Participated in two-year national project on the development of methods and techniques for the assessment and improvement of data quality in Cooperative Information Systems as part of the Politecnico di Milano unit.

Conference organization

2015 Program Chair of the International Conference ICGREEN 2015

2015 Co-chair of the Track Web applications composition and mashups at ICWE 2015

2014 Co-chair of the Doctorial Consortium of the International Conference in Web Engineering (ICWE '14)

2010-2013 Co-chair of the International Workshop on the Quality of Web Engineering (QWE2010 - QWE2011 - QWE2012 - QWE2013)

2012 Co-chair of the track on Information Quality Management in Innovative IS at MCIS 2012.

2010 Co-chair of the International Workshop on the Quality of Databases (QDB '10).

2010 Publication chair of the International Conference on Advanced Information System Engineering (CAiSE 2010).

2008 Co-chair of the track Data and Information Quality at ECIS 2008.

2005 Co-chair of the International Workshop on Data and Information Quality (DIQ '05).

2013 Associate Editor at the European Conference of Information Systems (ECIS 2013).

2010-2009 Associate Editor at the European Conference of Information Systems (ECIS 2010 - ECIS 2009).

2018-2017 Program Committee member of the Software Engineering in Society at ICSE 2017 and 2018.

2017-2013 Program Committee member of of the International Conference on Web Engineering (ICWE '17- ICWE '16 - ICWE '15 - ICWE '14 - ICWE '13).

2017-2012 Program Committee member of of the International Conference on Data Management Technologies and Applications (DATA '17 - DATA '16 -DATA '15 -DATA '14 - DATA '13 - DATA '12).

2016 Program Committee member of the International Conference on Information Quality (ICIQ '16).

2015 - 2006 Program Committee member of the International Conference on Software and Data Technologies (ICSOFT-PT '15 - ICSOFT-PT '14 -

ICSOFT-PT '13 - ICSOFT '12 - ICSOFT '11 - ICSOFT '10 - ICSOFT '09 ICSOFT '08 ICSOFT '07 ICSOFT '06).

- 2015 -2012 Program Committee member of the International Conference on Web Information Systems and Technologies (WEBIST 2017- WEBIST 2016 -WEBIST 2015- WEBIST 2014 - WEBIST 2013 - WEBIST 2012).
- 2014 Program Committee member of of the International Conference on ICT for Sustainability (ICT4S '14).
- 2014 Program Committee member of the International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2014).
- 2009 Program Committee member of the International Workshop on Quality in Databases to be held in conjunction with VLDB 2009.
- 2009 Program Committee member of the International Workshop on Data Quality and Security (DQS) to be held in conjunction with the Conference on Information and Knowledge Management - CIKM 2009.
- 2009 Program Committee member of the International Workshop on Data Quality for Software Engineering (DQ4SE) to be held in conjunction with the 9th International Conference of Software Engineering - QSIC'09.
- 2008 Program Committee member of the International Workshop on International Workshop on QoS in Self-healing Web Services (QSWs-08) to be held in conjunction with BPM 2008.
- 2008 Program Committee member of the International Workshop on AI for Self-Star Services to be held in conjunction with ECAI 2008.
- 2007 Program Committee memner of the International International Workshop on Conceptual Modeling Approaches for e-Business (eCOMO '08).
- 2007 Program Committee member of the Australasian Conference on Information Quality (AusIQ '07).
- 2006 Program Committee member of the Doctoral Consortium CAiSE 2006 (DC '06).
- 2006 Program Committee member of the International Conference on Information Quality (ICIQ '06).
- 2006 Program Committee member of the Australian Conference on Information Quality (AusIQ '06).
- 2005 Program Committee member of the Doctoral Consortium CAiSE 2005 (DC '05).
- 2005 Program Committee member of the International Workshop on Plastic Services for Mobile Devices (PSMD '05).
- 2004 Program Committee member of the International Workshop on Data

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- and Information Quality (DIQ '04).
- 2004 Program Committee member of the International Workshop on Information Quality in Information Systems 2004 (IQIS '04).
- 2003 Program Committee member of the International Conference ECIS 2003 track *ICT*.

Editorial Activities

Member of the Editorial Board of the Journal ACM Journal on Data and Information Quality (since 2012).

Guest editor of the “Special issue on sustainable computing systems and applications” in Springer Computing 99 (6), 2017.

Guest editor of the special issue “Web 2.0 engineering: New practices and emerging Challenges” in Journal of Systems and Software 86(12), 2013.

Guest editor of the special issue “Quality in New Generation Web Applications” in Journal of Web Application 11 (3), 2012.

Talks and guest lectures

- May 2015 Keynote speaker at the fifth International Workshop on Web Quality: “On the Role of Data Quality in Improving Web Information Value”.
- July 2014 Tutorial speaker at the 14th International Conference on Web Engineering (ICWE 2014): “Mashups: A Journey from Concepts and Models to the Quality of Applications”.
- September 2013 Guest Lecture in the context of the Software Engineering Workshop course (undergraduate) at University of New South Wales (UNSW).
- September 2013 Invited talk “The non-functional side of business process: energy efficiency and data quality awareness” – University of New South Wales (UNSW).
- January 2010 Invited talk “Quantifying the Strategic Value and Cost of Data Quality Improvement” - Universidad de Castilla La Mancha.
- February 2007 Invited talk “Data Quality Management in Self-healing Web Services” in the “4th Information quality Forum” – Dublin City University

Teaching experience

Lecturer at Politecnico di Milano, Milan, Italy

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- Undergraduate course “Sistemi Informativi” (Information systems) (Bovisa) (from 2012/2013 to 2016/2017)
 - Undergraduate course “Sistemi Informativi (per il settore dell’informazione)” (Milano) (from 2010/2011 to 2016/2017)
 - Phd Course “Data and Information Quality” (2017 and 2015 editions)
 - Master’s course “Sistemi Informativi per l’impresa” (Milano) (2010/2011)
 - Master’s course “Corporate Information Systems” (Como) (2008/2009 – 2009/2010)
 - Undergraduate course on “Sistemi Informativi (per il settore dell’informazione)” (Como) (from 2005/2006 to 2008/2009)
 - Master’s course “Sistemi Informativi 2” – (Como) (2004/2005)

Teacher at Universidad de la Republica, Montevideo, Uruguay

- Course “Data Quality from small to big data: challenges and techniques” (2017)

Contract Professor - Università della Svizzera Italiana, Lugano, Switzerland

- Contract professor for the Master course on ERP Lab (2015-2016 and 2016/2017)

Contract Professor - Università Commerciale “L. Bocconi”, Milan, Italy

- Contract professor for the Master course on ERP for the Master in Information Systems (2008-2009)

Teaching Assistant - Politecnico di Milano, Milan, Italy

- Undergraduate course on Information Systems (from 2001/2002 to 2008/2009)
- Undergraduate course on Database Systems (from 2005/2006 to 2013/2014)

Teaching Assistant - Dublin City University, Dublin, Ireland

- Lectures in the undergraduate course on Information System Strategy (2003/2004)

Master/Bachelor theses supervision – Politecnico di Milano, Milan, Italy (From 2003)

PhD theses reviewer

- Jovan Stevovic, Università degli Studi di Trento (April 2014) – Member of the Examination Committee
- Soudip Roy Chowdhury, Muhammad Imran, Università degli Studi di Trento (March 2013) – Member of the Examination Committee
- Oleksiy Chayka, Università degli Studi di Trento (December 2012) – Member of the Examination Committee
- César Arturo Guerra García, Universidad de Castilla-La Mancha (November

2011) - Reviewer

PUBLICATIONS

CINZIA CAPPIELLO

Journals

- Sicari, S., Rizzardi, A., Miorandi, D., Cappiello, C., Coen-Porisini, A.: Security policy enforcement for networked smart objects. *Computer Networks* 108: 133-147, 2016.
- Sicari, S., Rizzardi, A., Miorandi, D., Cappiello, C., Coen-Porisini, A.: A secure and quality-aware prototypical architecture for the Internet of Things. *Information Systems* 58: 43-55, 2016.
- Cappiello, C., Ho, N., Pernici, B., Plebani, P., Vitali, M. "CO₂-aware Adaptation Strategies for Cloud Applications" *IEEE Transactions on Cloud Computing*, 4(2): 152-165, 2016.
- Wajid, U., Cappiello, C., Plebani, P., Pernici, B., Mehandjiev, N., Vitali, M.; Gienger, M., Kavoussanakis, K., Margery, D., Perez, D., Sampaio, P. "On Achieving Energy Efficiency and Reducing CO₂ Footprint in Cloud Computing" *IEEE Transactions on Cloud Computing*, 4(2): 138-151, 2016.
- Sicari S., Cappiello, C., Miorandi, D., De Pellegrini, F., Coen-Porisini, A. "A Security-And Quality-Aware System Architecture For Internet Of Things", *Information Systems Frontiers*, 18(4): 665-677, 2016.
- Cappiello, C., Matera, M., Picozzi M. "A UI-Centric Approach for the End-User Development of Multi-Device Mashups". *ACM Transactions on the Web (TWEB)* 9(3), 2015.
- Bianchini, D., Cappiello, C., De Antonellis, V., Pernici, B., "Service Identification in Inter-Organizational Process Design". *IEEE Trans. on Services Computing* 7(2): 265-278 (2014).
- K. Kritikos, B. Pernici, P. Plebani, C. Cappiello, et al. "A Survey on Service Quality Description", *ACM Computing Surveys*, 46 (1), 2013.
- P. Plebani, C. Cappiello, M. Comuzzi, B. Pernici, S. Yadav, *MicroMAIS: executing and orchestrating Web services on constrained mobile devices*, *Software: Practice and Experience* 42(9): 1075-1094 (2012).
- A. Bucchiarone, C. Cappiello, E. Di Nitto, B. Pernici, A. Sandonini. "A variable context model for Adaptable Service-Based Application", *International Journal of Adaptive, Resilient and Autonomic Systems (IJARAS)*, 3(3): 35-53 (2012).

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- Andrea Maurino, Cinzia Cappiello, Panos Vassiliadis, Kai-Uwe Sattler: Report on the 8th international workshop on quality in databases (QDB10). SIGMOD Record 40(4): 52-55
 - C. Cappiello, F. Daniel, M. Matera, C. Pautasso, "Information Quality in Mashups". IEEE Internet Computing, July/August 2010.
 - Carlos Rodriguez, Florian Daniel, Fabio Casati, Cinzia Cappiello, "Toward Uncertain Business Intelligence: the Case of Key Indicators". IEEE Internet Computing, July/August 2010.
 - C. Batini, C. Cappiello, C. Francalanci, A. Maurino, "Methodologies for data quality assessment and improvement". ACM Computing Survey, vol.41, No.3, September 2009.
 - C. Batini, F. Cabitza, C. Cappiello, and C. Francalanci. "A Comprehensive Data Quality Methodology for Web and Structured Data", International Journal of Innovative Computing and Applications 2008, vol. 1, no. 3, pp. 205-218.
 - C. Cappiello, C. Francalanci, B. Pernici, "A Rule-Based Methodology to Support Information Quality Assessment and Improvement", Studies in Communication Sciences, vol. 4, no. 2, December 2004, pp. 137-154.
 - C. Cappiello, C. Francalanci, B. Pernici, "Time-Related Factors of Data Quality in Multichannel Information Systems", Journal of Management Information Systems, Winter 2003-2004, vol. 20, no. 3, pp. 71-91.

Journal special issue editorials

- Danilo Ardagna, Cinzia Cappiello: Special issue on sustainable computing systems and applications. Computing 99(6): 551-552 (2017)
- Marco Brambilla, Cinzia Cappiello, Irene Garrigós, Jose-Norberto Mazón, Santiago Meliá: Introduction to the JSS special issue of Web 2.0 engineering: New practices and emerging Challenges. Journal of Systems and Software 86(12): 2967-2969 (2013).
- Silvia Abrahão, Cristina Cachero, Cinzia Cappiello, Maristella Matera: Special Issue on Quality in New Generation Web Applications. J. Web Eng. 11(3): 179-180, 2012.

Proceedings (Edited)

- C. Cappiello, A. Fernandez, L. Olsina (Edited by). Proceedings of the Fourth International Workshop on Quality in Web Engineering (QWE '13), Proceedings of the ICWE 2013 Workshops, 2013

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- C. Cappiello, C. Cappiello, M. Matera, S. Abrahão (Edited by). Proceedings of the Third International Workshop on Quality in Web Engineering (QWE '12), Proceedings of the ICWE 2012 Workshops, 2012
 - C. Cachero, C. Cappiello, M. Matera, S. Abrahão (Edited by). Proceedings of the Second International Workshop on Quality in Web Engineering (QWE '11), Proceedings of the ICWE 2011 Workshops, 2011
 - C. Cachero, C. Cappiello, M. Matera, S. Abrahão (Edited by). Proceedings of the First International Workshop on Quality in Web Engineering (QWE '10), Proceedings of the ICWE 2010 Workshops, 2011.
 - C. Cappiello, M. Eppler, M. Helfert (Edited by). Proceedings of the Second International Workshop on Data and Information Quality (DIQ '05), pp. 123-264 in Proceedings of the CAiSE '05 Workshops, vol. I, Porto, June 2005.

International Conferences

- Tihomir Orehovacki, Cinzia Cappiello, Maristella Matera: Identifying Relevant Dimensions for the Quality of Web Mashups: An Empirical Study. HCI (1) 2016: 396-407
- Cinzia Cappiello, Tommaso Di Noia, Bogdan Alexandru Marcu, Maristella Matera: A Quality Model for Linked Data Exploration. ICWE 2016: 397-404
- Alessandra Rizzardi, Daniele Miorandi, Sabrina Sicari, Cinzia Cappiello, Alberto Coen-Porisini: Networked Smart Objects: Moving Data Processing Closer to the Source. IoT 360 (2) 2015: 28-35
- Sicari, S., Rizzardi A., Coen-Porisini, A., Cappiello, C. "A NFP Model for Internet of Things applications". WiMob 2014: 265-272.
- Cinzia Cappiello, Paco Melia, Barbara Pernici, Pierluigi Plebani, Monica Vitali: Sustainable choices for cloud applications: a focus on CO₂ emissions. ICT4S 2014
- Cinzia Cappiello, Angelica Caro, Alfonso Rodríguez, Ismael Caballero: An Approach To Design Business Processes Addressing Data Quality Issues. ECIS 2013.
- Cinzia Cappiello, Maristella Matera, Matteo Picozzi: End-User Development of Mobile Mashups. HCI (12) 2013: 641-650.
- Cinzia Cappiello, Sumit Datre, MariaGrazia Fugini, Michael Gienger, Paco Melia', Barbara Pernici, Pierluigi Plebani, Axel Tenschert. Monitoring and as-

sessing energy consumption and CO2 emissions in cloud-based systems. Proceedings of SMC 2013.

- Cinzia Cappiello, Maristella Matera, Matteo Picozzi, Florian Daniel, and Adrian Fernandez, Quality-Aware Mashup Composition: Issues, Techniques and Tools, in Proceedings of QUATIC 2012, 8th International Conference on the Quality of Information and Communications Technology, Lisbon, Portugal, 3-6 September 2012. BEST PAPER NOMINEE.
- Cinzia Cappiello, Maristella Matera, Matteo Picozzi, Alessandro Caio, Mariano Tomas Guevara: MobiMash: end user development for mobile mashups. WWW (Companion Volume) 2012: 473-474
- Angélica Caro, Alfonso Rodriguez, Cinzia Cappiello, Ismael Caballero, Designing Business Processes Able to Satisfy Data Quality Requirements, Proceedings of ICIQ 2012.
- Donato Barbagallo, Cinzia Cappiello, Alberto Coen-Porisini, Pietro Colombo, Marco Comerio, Flavio De Paoli, Chiara Francalanci, Sabrina Sicari: Towards the Definition of a Framework for Service Development in the Agrofood Domain - A Conceptual Model. WEBIST 2012: 264-267
- C. Cappiello, M.G. Fugini, A. M. Ferreira, P. Plebani, M. Vitali, Business Process Co-Design for Energy-Aware Adaptation, accepted for publication in Proceedings of IEEE ICCP (special session on Green Computing), Cluj-Napoca, Romania, 25-27 August, 2011
- C. Cappiello, A. Hinostroza, B. Pernici, M. Sami, E. Henis, R. I. Kat, K. Z. Meth, M. Mura, "ADSC: Application-Driven Storage Control for Energy Efficiency". ICT-GLOW 2011, pp. 165-179.
- C. Batini, C. Cappiello, C. Francalanci, A. Maurino, G. Viscusi, "A capacity and value based model for data architectures adopting integration technologies" (2011). AMCIS 2011 Proceedings - All Submissions. Paper 327.
- C. Cappiello, F. Daniel, A. Koschmider, M. Matera, M. Picozzi, "A Quality Model for Mashups". ICWE 2011, pp. 137-151.
- C. Cappiello, M. Matera, M. Picozzi, G. Sprega, D. Barbagallo, C. Francalanci "DashMash: A Mashup Environment for End User Development". ICWE 2011, pp. 152-166.
- C. Cappiello, F. Daniel, M. Matera, M. Picozzi, M. Weiss, "Enabling End User Development through Mashups: Requirements, Abstractions and Innovation Toolkits". IS-EUD 2011

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- D. Meiländer, S.Gorlatch, C. Cappiello, V. Mazza, R. Kazhamakin, and A.Bucchiarone. Using a Lifecycle Model for Developing and Running Highly Interactive Distributed Applications. Proceedings of ServiceWave 2010.
 - D. Barbagallo, C. Cappiello, C. Francalanci, M. Matera. "Reputation-based selection of Web information sources". Proceedings of ICEIS 2010, Madeira, Portugal.
 - D. Barbagallo, S. Bruno, C. Cappiello, C. Francalanci, M. Matera, L. Radice. "A Reputation-based DSS: the INTEREST Approach". Proc. of ENTER 2010 (17th International Conference on Information Technology and Travel & Tourism), Lugano, Switzerland.
 - Carlos Rodríguez, Florian Daniel, Fabio Casati, Cinzia Cappiello. Computing Uncertain Key Indicators from Uncertain Data. Proceedings of ICIQ'09, November 2009, Postdam, Germany.
 - D. Bianchini, C. Cappiello, V. De Antonellis, B. Pernici, "P2S: a methodology to enable inter-organizational process design through Web services". In Proceedings of the 21st International Conference in Advanced Information Systems (CAiSE'09), pp. 334-348, Amsterdam, 2009.
 - C. Cappiello, M. Comuzzi, "A Utility-based model to defined the optimal data quality level in IT service offerings". In Proceedings of the 17th European Conference on Information Systems (ECIS 2009), pp. 1063-1074, Verona, 2009. BEST PAPER NOMINEE out of more then 200 accepted papers.
 - C. Cappiello, O. Foley, M. Helfert, G. Mouzhi "Analysing the Effect of security on information quality dimensions". In Proceedings of the 17th European Conference on Information Systems (ECIS 2009), pp. 1164-1176, Verona, 2009.
 - C. Cappiello, F. Daniel, M. Matera "A Quality Model for Mashup Components". In Proceedings of the 9th International Conference on Web Engineering (ICWE 2009), pp. 236-250, San Sebastian, Spain, 2009.
 - M. Helfert, O. Foley, G. Mouzhi, C. Cappiello "Limitations of weighted sum measures for Information Quality". In Proceedings of AMCIS 2009.
 - B. Pernici, D. Ardagna, C. Cappiello, "Business process design: towards service-based green information system", In Proceedings of the WCC '08.
 - F. Daniel, F. Casati, T. Palpanas, O. Chayka, C. Cappiello, "Enabling Better Decisions through Quality-Aware Reports in Business Intelligence Applications". In Proceedings of the 13th International Conference on Information Quality (ICIQ '08), MIT Press, Boston, MA, USA, November 2008.

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- C. Cappiello, B. Pernici “Quality-Aware Design of Repairable Processes”. In Proceedings of the 13th International Conference on Information Quality (ICIQ ‘08), MIT Press, Boston, MA, USA, November 2008.
 - D. Ardagna, C. Cappiello, M. Lovera, B. Pernici, M. Tanelli, “Active Energy-Aware Management of Business-Process Based Applications”, to appear in the Proceedings of the Service Wave Conference 2008.
 - C. Cappiello, M. Comuzzi, P. Plebani, “On Automated Generation of Web Service Level Agreements”, Proceedings at International Conference on Advanced Information Systems Engineering (CAiSE'07), Trondheim, Norway, June 2007, pp. 264-278 .
 - C. Cappiello, M. Comuzzi “Efficient Allocation of Quality Improvement Efforts to Support the Definition of Data Service Offerings”, In Proceedings of the 12th International Conference on Information Quality (ICIQ ‘07), MIT Press, Boston, MA, USA, November 2006, pp. 209-220.
 - D.Ardagna, C. Cappiello, C. Francalanci, A. Groppi, “Brokering multisource data with quality constraints”. In Proceedings of short paper of the The 5th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2006), Montpellier, November 2006.
 - C. Cappiello, B. Pernici, “A Methodology for Information Quality Management in Self-Healing Web Services”. In Proceedings of the 11th International Conference on Information Quality (ICIQ ‘06), MIT Press, Boston, MA, USA, November 2006.
 - C. Batini, F. Cabitza, C. Cappiello, C. Francalanci, “A Comprehensive Data Quality Methodology for Web and Structured Data”. In Proceedings of the 1st International Conference on Digital Information Management (ICDIM ‘06), Bangalore, December 2006, pp. 448-456.
 - C. Cappiello, C. Francalanci, B. Pernici “A self-monitoring system to satisfy data quality requirements”. In Proceedings of the International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE ‘05), November 2005, pp. 1535-1552.
 - D.Ardagna, C. Cappiello, M. Comuzzi, C. Francalanci, B. Pernici, “A broker for selecting and provisioning high quality syndicated data”. In Proceedings of the Tenth International Conference on Information Quality (ICIQ ‘05), MIT Press, Boston, MA, USA, November 2005, pp.262-279.
 - C. Cappiello, C. Francalanci, B. Pernici, F. Martini, “Representation and Certification of Data Quality on the Web”. In Proceedings of the Ninth International Conference on Information Quality (ICIQ ‘04), MIT Press, Boston, MA, USA, 2004, pp. 402-417.

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- C. Cappiello, C. Francalanci, B. Pernici, "Preserving Web Sites: A Data Quality Approach". In Proceedings of the Eighth International Conference on Information Quality (ICIQ '03), Boston , MA, USA, 2003, pp. 331-344.
 - C. Cappiello, C. Francalanci, B. Pernici, "A Model of Data Currency in Multi-channel Financial Architectures". In Proceedings of the Seventh International Conference on Information Quality (ICIQ '02), Boston, MA, USA , 2002, pp. 106-118.

Chapters of books

- A. Bucchiarone C. Cappiello, E. Di Nitto, S. Gorlatch, D. Meiländer, A. Metzger, "Design for self-adaptation in service-oriented Systems in the Cloud, In European Research Activities in Cloud Computing, 2012
- D. Barbagallo, C. Cappiello, C. Francalanci, M. Matera. Semantic sentiment analyses based on the reputation of Web information sources. To appear in V. Sugumaran, J.A. Gulla (ed.): Applied Semantic Technologies: Using Semantics in Intelligent Information Processing, Taylor and Francis, 2011.
- S. Benbernou, I. Brandic, C. Cappiello, M. Carro, M. Comuzzi, A. Kertész, K. Kritikos, M. Parkin, B. Pernici, P. Plebani: Modeling and Negotiating Service Quality. S-CUBE Book 2010: 157-208.
- D. Bianchini, M. Brambilla, A. Campi, C. Cappiello, S. Ceri, M. Comuzzi, V. De Antonellis, B. Pernici and P. Plebani. "Model-based service-oriented architectures for Internetworked Enterprises", in Passiante G. (ed.) Evolving Towards the Internetworked Enterprise Technological and Organizational Perspectives, pp. 61-96, Springer, 2010
- C. Cappiello, M Fugini, B Pernici and P Plebani.Green Information Systems for Sustainable IT. Inn A. D'Atri; M. Ferrara, J.F. George, P. Spagnoletti (ed.): Information Technology and Innovation Trends in Organizations, Springer, 2010.
- C. Cappiello, B. Pernici, "Design of Repairable Processes". To appear in J. Cardoso, W.M.P. van der Aalst (ed.): Handbook of BPM, IGI Global, 2009.
- D. Bianchini, C. Cappiello, V. De Antonellis, B_ Pernici, "A methodological approach to enable cooperative process design through Web Services", in A. D'Atri; D. Saccà (ed.): Information Systems: People, Organizations, Institutions, and Technologies, Springer 2009.
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