

Elisa Marengo, Ph.D. – Curriculum Vitæ

Faculty of Computer Science
Free University of Bozen-Bolzano
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NATIONALITY: Italian

MAIN RESEARCH INTERESTS

- Process Management in Construction.
- Data Aware Business Processes and Data Quality.
- Business Processes and Interaction Protocols Specification in Multiagent Systems.

BRIEF SYNOPSIS OF THE RESEARCH ACTIVITY

The research activity carried on by Elisa Marengo is mainly settled in the context of business process management, focusing on three main aspects: *i*) Management and modelling of Construction Processes; *ii*) Data Aware Business Processes and Data Quality; *iii*) Business Processes and Interaction Protocols in the context of Agents and Multiagent Systems.

Elisa Marengo also worked on *i*) Multi-Objective Optimization Problem for Decision Support Systems and *ii*) Automatic Authoring of Curricula of Study and Verification of (Pedagogical) Properties on them, in the e-learning context.

CURRENT POSITION

Since August 2017 Elisa Marengo is *Assistant Professor* with a fixed-term contract at the Faculty of Computer Science of the Free University of Bozen-Bolzano.

EDUCATION AND RESEARCH CAREER

- 1 AUG 2017- 31 JULY 2020 **Assistant Professor (Junior RTD)** with a fixed-term contract, at the Faculty of Computer Science of the Free University of Bozen-Bolzano, working on the project *COckPiT: Collaborative Construction Process management*.
- 1 AUG 2016 - 31 JULY 2017 **Research Assistant (AR)** at the Faculty of Computer Science at the Free University of Bozen-Bolzano, working on the project: *MoMaPC: Modeling and Managing Processes in Construction*.
- 1 AUG 2013 - 31 JULY 2016 **Assistant Professor (Junior RTD)** with a fixed-term contract, at the Faculty of Computer Science of the Free University of Bozen-Bolzano, mainly working on the topics: Data Aware Business Processes and Data Quality; Business Processes Management in Construction.
- 2 MAY - 31 JUL 2013 **Research Assistant (AR)** at the Department of Computer Science and Engineering of the University of Bologna, working on the topic: *ePolicy: Constraint-based models, simulation and web services for regional planning on the energy field*. The contract was for one year.
- JAN - DEC 2012 **Research Assistant (AR)** at the Department of Computer Science of the University of Turin, working on the topic: *Supporting the analysis of risk of violations in business protocols*.

- OCT 19, 2012 **Ph.D. in Computer Science** at the University of Turin.
 Title of the thesis: *2CL Protocols: Interaction Patterns Specification in Commitment Protocols*.
 Advisor: Dr. Matteo Baldoni
 Co-Advisor: Dr. Cristina Baroglio
 Ph.D. Cycle: XXIV
 Evaluation of the thesis: **(IT - Original)** Le ricerche oggetto della tesi presentano un buon grado di originalità. Le metodologie appaiono rigorose, ben fondate, ed hanno portato a risultati di ottima qualità scientifica, come dimostrato dalla quantità e qualità della produzione scientifica. I risultati sono interessanti ed analizzati con notevole senso critico. Nel colloquio il candidato dimostra ottima conoscenza delle problematiche trattate ed elevata chiarezza nell'esposizione.
(EN - Translated) The research of the thesis has a good degree of originality. The methodologies appear rigorous, well founded, and lead to results of excellent scientific quality, as proved by the quality and quantity of the scientific production. The results are interesting and analyzed with notable critical sense. In the dissertation the candidate shows excellent knowledge of the tackled problems and high clarity in the exposition.
- JAN 2009 - DEC 2011 **Ph.D. Student** at the department of Computer Science of the University of Turin, where she won one out of five positions in a public competition.
- OCT 2, 2008 **Master Degree in Computer Science** with highest honors (*summa cum laude*) at the University of Turin, Italy.
 Title of the thesis: "Curricula di Studi: Modelli e Verifica di Competenze" ("Curricula of Study: Models and Competences Verification").
 Supervisor: Dr. Matteo Baldoni (University of Turin).
 Examiner: Prof. Alberto Martelli (University of Turin).
 The thesis has been awarded by the University of Turin as *best thesis 2007/2008* in Computer Science, and with the *best thesis award 2009 in the ICT* by "AICA - Confindustria Servizi Innovativi e Tecnologici".
- SEPT 21, 2006 **Bachelor degree in Computer Science** "*summa cum laude*" at the Department of Computer Science, University of Turin, Italy.
 Title: "Realizzazione di un Web Service Prolog per la Pianificazione di Curricula di Studi: un Approccio ad Azioni nel Semantic Web" (A Prolog Web Service for Planning Curricula of Study: an Action-based Approach in Semantic Web).
 Supervisor: Dr. Matteo Baldoni (University of Turin).
 Co-supervisor: Dott. Ing. Ingo Brunkhorst (University of Hannover, Germania).
- JULY 2003 **Senior high school specializing in a technical education (Diploma di Maturità Scientifica)**. at the *Istituto Tecnico Industriale Statale "G. Vallauri" of Fossano (CN - Italy)*, (81/100).

PRIZES, GRANTS AND SCHOLARSHIPS

- **Best paper award** in September 2018 for the paper *Construction Process Modeling: Representing Activities, Items and their Interplay*. at the 16th International Conference on Business Process Management (BPM).
- **Winner of a Travel Grant** in July 2011 for the participation to the *22nd International*

Joint Conference on Artificial Intelligence - IJCAI 2011, Barcelona, Spain.

- **Winner of Student Scholarship** in May 2011, for the participation to the *10th International Conference on Autonomous Agents and Multiagent Systems - AAMAS 2011*, Taipei, Taiwan.
- **Winner of a Travel Grant** in June 2010, promoted by *ECCAI: European Coordinating Committee for Artificial Intelligence* for the participation to the *19th European Conference on Artificial Intelligence - ECAI 2010*, Lisbon, Portugal, August 2010.
- “AICA - Confindustria Servizi Innovativi e Tecnologici” **best thesis award 2009 in the ICT**. The thesis has been evaluated w.r.t. achieved results, industrial applications, scientific relevance and clearness of the exposition.
- Winner of the award “**Medaglia d’argento**” from the University of Turin for the best thesis 2007/2008 in Computer Science in February 2010. The award was assigned by a Committee made up of professors of the degree course in Computer Science.
- **Winner of a PH.D. Scholarship** in November 2008. The scholarship has been granted to finance a period of three year as a Ph.D. student. Elisa Marengo won one out of five scholarships.
- **Winner of a contract as Lab teacher** for the year 2006/2007 for the course “Programmazione in Rete” for the beachelor degree in Computer Science at the University of Torino. Total number of hours 150.
- **Winner of a Grant** in June 2007, promoted by *AI*IA: Italian Association for Artificial Intelligence* for the participation to the *10th Annual Congress of the association*.

TEACHING ACTIVITY

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|----------------|---|
| A.Y. 2012/2013 | Contract lecturer for the course “Laboratorio di Informatica (Computer Science)” at the Department of Literature and Philosophy, University of Turin. The teaching consisted of frontal lectures and labs.
Number of hours: 60. Number of students: 80. |
| A.Y. 2012/2013 | Contract lecturer for the course “Computer Science” at the Turin’s Military Academy (Scuola di Applicazione Militare). The teaching consisted of frontal lectures and labs.
Number of hours: 28. Number of students: 30. |
| A.Y. 2012/2013 | Lab teacher for the course “Programmazione I and Programmazione II” (Programming) of the curriculum in Computer Science, University of Turin.
Number of hours: 30. |
| A.Y. 2011/2012 | Lab teacher for the course “Basi di Dati” (Database) of the curriculum in Computer Science, University of Turin.
Number of hours: 30. |
| A.Y. 2010/2011 | Lab teacher for the course “Basi di Dati” (Database) of the curriculum in Computer Science, University of Turin.
Number of hours: 30. |
| A.Y. 2009/2010 | Lab teacher for the course “Database e Sperimentazioni” (Database) of the curriculum in Computer Science, University of Turin.
Number of hours: 30. |
| A.Y. 2006/2007 | Lab teacher for the course “Programmazione in rete” of the curriculum in Computer Science, University of Turin |

Number of hours: 60.

ADVISOR OF THESIS

Elisa Marengo has been co-advisor of the following thesis for the Master degree in Computer Science:

- A.Y. 2016-2017 **Master thesis for the curriculum in Computer Science**, Free University of Bozen-Bolzano.
Process Modelling in Construction: Developing an IT System to Support Design and Consistency Check.
Student: Matthias Perktold
Thesis Defence: March 24, 2017
- A.Y. 2014-2015 **Master thesis for the curriculum in Computer Science**, Free University of Bozen-Bolzano.
Automatic Tool Support for Modelling Construction Processes.
Student: Luka Rescic
Thesis Defence: October 10, 2014
- A.Y. 2009-2010 **Master thesis for the curriculum in Computer Science**, University of Turin.
Un approccio ai business process basato su commitment: il caso di studio della MiFID e la realizzazione di uno strumento per il design. (A commitment-based approach for business process: the MiFID case study and realization of a tool for supporting the design).
Student: Federico Capuzzimati

SUPERVISION OF RESEARCH COLLABORATORS

Elisa Marengo has supervised the research activity of the following collaborators:

- 2018-CURRENT **Syed Mehtab Alam, Collaborating with an AR contract.**
The supervision concerned the implementation of a software for the analysis of data about the daily progress on a construction site, with the aim of assessing the overall status of a construction project. Elisa Marengo defined the requirements, the query of interest to be answered by means of the tool and defined the conceptual model.
- 2017-CURRENT **Arif Ur Rahman, Collaborating with an AR contract.** The supervision concerned the implementation of a software tool able to automatically generate excel-based tables for the daily scheduling of the on-site activities of a construction company. Elisa Marengo defined the requirements and planned the development steps. She also supervised the implementation.
- 2016-2017 **Simone Tritini, Collaborating with a Co.Co.Pro contract.**
The supervision concerned the extension and improvement of an existing demonstrator for the scheduling and the monitoring phases of the management of processes in construction. Elisa Marengo defined the new functionalities to be implemented and lead and supervised their implementation.

- 2015-2016 **Anis Nouri. Collaborating with two Co.Co.Pro contracts.** The supervision concerned the development of a demonstrator for the reasoning on completeness of data in a research information system scenario. Elisa Marengo defined the functionalities to be implemented, the conceptual model, the technologies to be used, the interface appearance and supervised step by step the implementation.
- 2015 **David Von Leon, from Fraunhofer Italia.** Elisa Marengo supervised the activity by David Von Leon in the implementation of the client side of MoScA, a web application for supporting process management in construction. She defined the functionalities and the requisites of the interface.
- 2015 **Luka Rescic, from Fraunhofer Italia.** Elisa Marengo supervised the activity by Luka Rescic in the implementation of the server side of MoScA, a web application for supporting process management in construction. She defined the functionalities to be implemented, the conceptual model, the technologies to be used and lead and supervised the implementation.
- 2014-2015 **Alex Tomasi. Collaborating as Research Assistant (AR) at the Free University of Bozen-Bolzano.** The supervision concerned the development of a web application for the annotation of BPMN processes with information on data manipulation, in order to reason on data completeness. Elisa Marengo defined the functionalities to be implemented, the appearance of the interface as well as the data format representing an annotated BPMN process.

SOFTWARE DEVELOPMENT

Elisa Marengo lead the development of the following software:

CONSTRUCTION

PROCESS SCHEDULING

Elisa Marengo is currently working on extending an existing demonstrator for automatic scheduling of activities in construction processes using CSP techniques.

PROCESS MODELLING

CoPMod is a demonstrator which aims at supporting the activity of process modelling in construction. Elisa Marengo defined the requirements and functionalities to be implemented, defined the appearance of the graphical interface and supervised the work of a student performing the implementation.

References: [C20, C19, C15, IW13, C17] and

<https://www.inf.unibz.it/~emarengo/copmod-tool.html>

DATA COMPLETENESS

Elisa Marengo lead and supervised the development of a demonstrator aiming at reproducing a research information system, enriched with a functionality for reasoning on query completeness. Elisa Marengo developed the conceptual model, the functionalities to be implemented, the appearance of the graphical interface, the technologies to be used and supervised step by step the implementation.

References:

<http://magic-boris.inf.unibz.it:8080/BoRIS/>

- MoSCA The demonstrator aims at supporting the activity of process management in construction. Elisa Marengo lead the conceptual design, the definition of the functionalities to be implemented, the requisites of both the server and the client side of the application, and supervised step by step the work performed by two scientific collaborators working on the implementation.
References: [IW13] and <http://bp-construction.inf.unibz.it/Scheduling/>
- MULTI-OBJECTIVE OPTIMIZER In the context of the European project ePolicy, Elisa Marengo extended an existing program, called global optimizer, in order to consider additional parameters (i.e. different types of emissions from biomass plants) in the optimization. She also implemented the *multi-objective global optimizer*, a new module for the optimization of multi-objective problems.
References: [C12] and <http://www.epolicy-project.eu/sites/default/files/public/D3.4.zip>
- 2CL TOOL The Tool supports the phases of design and analysis of 2CL protocols. Elisa Marengo designed and implemented the tool.
References: [C11] and www.di.unito.it/~alice/2CL/
- DCML VERIFIER The demonstrator supports the specification of curricula of study and properties of interest and automatically checks the satisfaction of the properties over the curricula. Elisa Marengo developed the languages for the specification of both the properties and the curricula, and implemented the verifier.
References: [IJ1, NJ1, C4, C3, C2, C1, IW3, IW2]
- CURRICULA PLANNER The demonstrator supports the automatic generation of curricula of study, satisfying some properties of interest. Elisa Marengo implemented the planner.
References: [IJ1, NJ1, IW3, IW2, IW1]

TALKS AND INVITED TALKS

Elisa Marengo gave the following talks:

- SEPTEMBER 2018 **Construction Process Modeling: Representing Activities, Items and their Interplay.** 16th International Conference on Business Process Management (BPM), Sydney, Australia.
- SEPTEMBER 2018 **CoPMod: Support for Construction Process Modeling.** Demo Track of the 16th International Conference on Business Process Management, Sydney, Australia.
- JULY 2018 **Promoting Collaborative Construction Process Management by Means of a Normalized Workload Approach.** 26th Annual Conference of the International Group for Lean Construction (IGLC), Chennai, India.

- SEPTEMBER 2016 **MAGIK - ohne Tricks und Täuschung. Ein Instrument zur Datenverwaltung in Südtirols Schulen.** In collaboration with Patrick Dallasega. LUNA: Long Night of Research. Bolzano, Italy.
- JUNE 2016 **Towards a Graphical Language for Process Modelling in Construction.** International Conference on Advanced Information System Engineering, CAiSE Forum 2016 (Poster). Ljubljana, Slovenia.
- OCTOBER 2015 **Managing Completeness of Data.** In collaboration with Fariz Darari, Werner Nutt, Simon Razniewski, Ognjen Savkovic. UNIBZ Research Day, Free University of Bozen-Bolzano, Bolzano, Italy.
- JULY 2015 **Constitutive and Regulative Specifications of Commitment Protocols: a Decoupled Approach (Extended Abstract).** International Joint Conference on Artificial Intelligence, IJCAI 2015, Journal Track. Buenos Aires, Argentina.
- FEBRUARY 2015 **From Cuneo to Dolomites (...through Business Processes).** Invited talk at the yearly inauguration ceremony of Ph.D. Schools. University of Torino.
- APRIL 2013 **2CL Protocols: Interaction Patterns Specification in Commitment Protocols.** Invited talk at the Faculty of Computer Science, Free University of Bozen-Bolzano, Italy.
- JUNE 2012 **A Generalized Commitment Machine for 2CL Protocols and its Implementation.** Declarative Agent Languages and Technologies Workshop, DALT 2012. Valencia, Spain.
- OCT 2011 **Supporting the Analysis of Risks of Violation in Business Protocols: the MiFID Case Study.** Information Systems: Crossroads for Organization, Management, Accounting and Engineering, itAIS 2011. Rome, Italy.
- JULY 2011 **On Temporal Regulations and Commitment Protocols.** Doctoral Consortium of the 22th Joint Conference on Artificial Intelligence, IJCAI 2011. Barcelona, Spain.
- JULY 2011 **Extend Commitment Protocols with Temporal Regulations: Why and How.** Doctoral Consortium of the 5th International Symposium on Rules, RuleML 2011. Barcelona, Spain.
- MAY 2011 **Commitments with Regulations: Reasoning about Safety and Control in REGULA.** 10th International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2011, Taipei, Taiwan.
- NOV 22, 2010 **Regulating Agent Interactions in Open Multiagent Systems.** North Carolina State University, NC, USA.
- AUG 2010 **Behavior-oriented Commitment-based Protocols.** ECAI 2010 – 19th European Conference on Artificial Intelligence, ECAI 2010. Lisbon, Portugal. Joint presentation with Cristina Baroglio.
- JUL 7, 2010 **Constraints among Commitments: Regulative Specification of Interaction Protocols.** CILC 2010: Convegno Italiano di Logica Computazionale, Univeristà della Calabria, Arcavacata di Rende (CS), Italia.

- MAY 10, 2010 **Commitment-based Protocols with Behavioral Rules and Correctness Properties of MAS.** DALT 2010: Declarative Agent Languages and Technologies, Toronto, Canada.
- SEP 8, 2009 **Joint achievement of services' personal goals.** MALLOW-AWESOME'09: Multi-Agent Logics, Languages, and Organisations, Federated Workshops - Agent, Web Services and Ontologies, Integrated Methodologies, Turin, Italy.
- SEP 24, 2007 **Declarative representation of curricula models: an LTL- and UML-based approach.** WOA 2007: Dagli oggetti agli agenti, Agenti e Industrie: Applicazioni tecnologiche degli agenti software, Genoa, Italy.
- SEP 13, 2007 **Curricula Modeling and Checking.** AI*IA 2007: 10th Congress of Italian Association for Artificial Intelligence, Rome, Italy.
- OCT 11, 2006 **A Personalization Service for Curriculum Planning.** ABIS 2006: 14th Workshop on Adaptivity and User Modeling in Interactive Systems, Hildesheim, Germany.
- OCT 2006 **Planning and representation of Curricula of Study. - Invited Talk.** Prof. Nicola Henze, of the University of Hannover invited Elisa Marengo to give a talk on the topics developed in her bachelor thesis, to the Learning Lab Lower Saxony, Hannover, Germany.

PARTICIPATION IN PROJECTS

Elisa Marengo worked in the following projects:

- *COckPiT: Collaborative Construction Process Management*. (financed by the European Regional Development Fund (ERDF) Investment for Growth and Jobs Programme 2014–2020). The aim of the project is to support Construction process modeling, scheduling and monitoring, providing (automatic) tools. The projects involves two scientific partners (The faculty of science and technology of the Free University of Bozen-Bolzano and Fraunhofer Italia Research scarl) and three small-medium size construction companies (Atzwanger SpA, Frener&Reifer GmbH and Unionbau Srl)

CONTRIBUTION (MANAGEMENT): Elisa Marengo is managing the project. Among the activities she is carrying on: *i*) orchestration of the collaboration among the parties; *ii*) responsible for the budgeting; *iii*) organization of the hiring; *iv*) supervision of the work of the collaborators at the faculty of computer science.

CONTRIBUTION (RESEARCH): Elisa Marengo, in line with the current state of the project, is working on the modeling, scheduling and monitoring parts of the project. Specifically, she is working/worked on: *i*) formalization of a language for process modeling and satisfiability checking; *ii*) production of automatic schedules, working both at the definition/elaboration of the requirements and implementation of Constraint Satisfaction Problem-based techniques. *iii*) definition of the requirements for the monitoring and forecast analysis to assess construction process progress at a certain point in time.
- *MoMaPC: Modelling and Managing Processes in Construction*. (Central Research Committee: Call for Project Proposals 2014 Free University of Bozen - Bolzano). The aim of the project is to support Business Process Management in the construction field.

CONTRIBUTION: Elisa Marengo collaborated to the coordination of the project work and supervised the work of the collaborators. Additionally, she *i*) developed a formal language for process model specification, *ii*) designed a web application to support the modelling and lead and supervised its implementation, *iii*) designed a web application to support process scheduling and monitoring and lead its implementation.
- *MAGIC: MAnaGing Completeness of Data*. (Project founded by the Provincia Autonoma

di Bolzano). <https://magic.inf.unibz.it/>

CONTRIBUTION: Elisa Marengo *i*) worked on the formalization of the query stability problem and its characterization in terms of computational complexity, *ii*) designed a web application to support the reasoning on completeness in a research information system, *iii*) lead and supervised the implementation of an application for annotating business processes with information on data manipulation.

- *ePolicy: Constraint-based models, simulation and web services for regional planning on the energy field.* (EU funded project). <http://www.epolicy-project.eu/>
RESEARCH UNIT: UniBO.
CONTRIBUTION: Elisa Marengo implemented the multi-objective Global Optimizer, a tool for decision support in policy making, supporting multi-objective optimization of functions;
- *ICT4LAW: ICT Converging on Law: Next Generation Services for Citizens, Enterprises, Public Administration and Policymakers* (Regione Piemonte, Converging technologies Project 2007), start date: 20/3/2009. <http://www.ict4law.org/>
TERM: 36 months.
<http://www.ict4law.org/>
RESEARCH UNIT: UniTO.
CONTRIBUTION: Elisa Marengo *i*) developed a language for the representation of particular kinds of laws (based on commitments and temporal regulations), *ii*) implemented a demonstrator to reason on risks of violations.
- “Capturing Semantics in Social Tagging Systems” Vigoni Program 2007-2008; founded by MIUR, Ateneo Italo-Tedesco and DAAD 2007-2009.
TERM: 24 months. RESEARCH UNIT: Ateneo Italiano (UniTO).
CONTRIBUTION: Elisa Marengo developed a demonstrator for the automatic generation of curricula of study starting from course specifications automatically extracted from the syllabus of the courses.
- *REWERSE: Reasoning on the Web with Rules and Semantics* (EU NoE FP6, Information Society Technologies (IST), project reference number 506779. REWERSE addresses the IST strategic action line “Semantic-based knowledge systems”.) 2004-2008.
TERM: 48 months.
CONTRIBUTION: Elisa Marengo *i*) developed a demonstrator supporting the automatic planning of curricula of study, *ii*) developed a language for the specification of properties of interest over curricula of study, *iii*) implemented a demonstrator for the automatic verification of properties over curricula.

EDITORIAL BOARDS MEMBER

Elisa Marengo is Member of the Editorial Board for the following journals:

2018 *Journal of Computer Science.* Science Publications publisher.

2017 *Journal of Computer Science.* Science Publications publisher.

2016 *Journal of Computer Science.* Science Publications publisher.

JOURNAL REVIEWS

Elisa Marengo contributed as reviewer in the following journals:

2018 Journal of Computer Science

2017 Autonomous Agents and Multi-Agent Systems

2014 WOA Special Issue, ACM TOIT, Transaction CCI Journal

PROGRAM COMMITTEE MEMBER

Elisa Marengo is Member of the Program Committee for the following conferences and workshops:

- 2018** AAMAS, PRIMA
- 2017** AAMAS, PRIMA
- 2016** PRIMA, SEMANTiCS, ICAART, CLOSER
- 2015** AAMAS, CLOSER, ICAART, MFSC, PRIMA, SEMANTiCS
- 2014** SC-AAMAS, CLOSER, ICAART
- 2013** AIBP, WOA, CLOSER, ICAART, I-SEMANTICS
- 2012** WOA, I-SEMANTICS
- 2011** I-SEMANTICS
- 2010** I-SEMANTICS

CONFERENCE REVIEWS

Elisa Marengo contributed as reviewer in the following conferences and workshops:

- 2017** IJCAI, PRIMA
- 2015** AAI, IJCAI
- 2014** APWeb
- 2013** PDP, AAI
- 2012** AAI
- 2011** WI, ProMAS, WEBIST, ICWS, AAMAS
- 2010** LADS, RuleML, CILC, ICWS, AAMAS
- 2009** LADS, AAMAS, IJCAI, ICWS

RESEARCH VISITS

- NOV 1 - 26, 2010 Elisa Marengo visited the North Carolina State University under the supervision of Dr. Munindar P. Singh.
- OCT 9 - 13, 2006 Elisa Marengo visited the L3S Research Center and the University of Hannover.

LIST OF PUBLICATIONS

International Journals

- [IJ5] M. Baldoni, C. Baroglio, E. Marengo, V. Patti, and F. Capuzzimati.
Engineering Commitment-based Business Protocols with the 2CL Methodology.
Journal of Autonomous Agents and Multi-Agent Systems, 28(4):519–557, July 2014.
IF: 1.108. ISSN: 1387-2532
- [IJ4] M. Baldoni, C. Baroglio, E. Marengo, and V. Patti.
Constitutive and Regulative Specifications of Commitment Protocols: a Decoupled Approach.
ACM Transactions on Intelligent Systems and Technology, 4(2), 2013.
IF 9.39. ISSN: 2157-6904
- [IJ3] M. Baldoni, C. Baroglio, E. Marengo, V. Patti, and C. Schifanella.
Flexible Choreography-driven Service Selection.
Journal of Intelligenza Artificiale, 6(1):97–115, 2012. ISSN: 1724-8035
- [IJ2] M. Baldoni, C. Baroglio, E. Marengo, V. Patti, and C. Schifanella.
Models of agent interaction based on modal logics.
International Journal of Intelligenza Artificiale, 5(1):83-88, February 2011.
- [IJ1] M. Baldoni, C. Baroglio, I. Brunkhorst, N. Henze, E. Marengo, and V. Patti.
Constraint Modeling for Curriculum Planning and Validation.
International Journal of Interactive Learning Environments. Special Issue on “Semantic Technologies for Multimedia-enhanced Learning Environments”, 19(1):83–123, 2011.

National Journals

- [NJ1] M. Baldoni, and E. Marengo.
Validazione e Pianificazione Automatica di Percorsi Formativi.
Invited paper for the national journal “*Mondo Digitale*”, 36:64–74, December 2010.

Chapter in Book (with review)

- [Ch2] E. Marengo, P. Dallasega, M. Montali, W. Nutt, and M. Reifer.
Process Management in Construction. The Expansion of the Bolzano Hospital.
Business Process Management Cases: Digital Innovation and Business Transformation in Practice, J. vom Brocke, J. Mendling Editors. Springer International Publishing, 2018.
Pages 257–274.
- [Ch1] M. Baldoni, C. Baroglio, E. Marengo, and V. Patti.
Supporting the Analysis of Risks of Violation in Business Protocols: the MiFID Case Study.
M. De Marco, D. Te’eni, V. Albano, and S. Za, editors, *Information Systems: a crossroads for organization, management, accounting and engineering*, VIII Conference of the Italian Chapter of AIS, itAIS 2011. Best Track Paper Award. pages 545-553. Springer, 2012.

International Conferences and Lecture Notes in Computer Science (with review)

- [C20] E. Marengo, W. Nutt, and M. Perktold.
Construction Process Modeling: Representing Activities, Items and their Interplay.
16th International Conference on Business Process Management (BPM), Sydney, Australia. September 2018. LNCS 11080, Springer. Acceptance rate 19%. **Best paper award of the conference.**

- [C19] E. Marengo, W. Nutt, and M. Perktold.
CoPMod: Support for Construction Process Modeling.
Demo Track of the 16th International Conference on Business Process Management, Sydney, Australia. September 2018. BPM 2018. CEUR Workshop Proceedings, Vol. 2196.
- [C18] C. P. Schimanski, C. Marcher, P. Dallasega, E. Marengo, C. Follini, A. U.Rahman, A. Revolti, W. Nutt, and D. T. Matt.
Promoting Collaborative Construction Process Management by Means of a Normalized Workload Approach.
In: 26th Annual Conference of the International Group for Lean Construction (IGLC). Chennai, India, 18-20 Jul 2018. pp 764-774.
- [C17] P. Dallasega, C. Marcher, E. Marengo, E. Rauch, D.T. Matt, and W. Nutt.
A Decentralized and Pull-based Control Loop for On-Demand Delivery in ETO Construction Supply Chains.
24th Annual Conference of the International Group for Lean Construction, Boston, MA, USA. July 2016. IGLC-24.
- [C16] M. Baldoni, C. Baroglio, E. Marengo, V. Patti, and F. Capuzzimati.
Engineering Commitment-based Business Protocols with the 2CL Methodology (Extended Abstract).
International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2016, Singapore, May 9th-13th 2016. IFAAMAS
- [C15] E. Marengo, P. Dallasega, M. Montali, and W. Nutt.
Towards a Graphical Language for Process Modelling in Construction.
Proceedings of the CAiSE'16 Forum, at the 28th International Conference on Advanced Information Systems Engineering (CAiSE 2016). CEUR Workshop Proceedings, vol. 1612. Ljubljana, Slovenia, June 13-17, 2016.
- [C14] O. Savković, E. Marengo, W. Nutt.
Query Stability in Monotonic Data-Aware Business Processes.
International Conference on Database Theory, ICDT 2016. Bordeaux, France.
- [C13] M. Baldoni, C. Baroglio, E. Marengo, V. Patti.
Constitutive and Regulative Specifications of Commitment Protocols: a Decoupled Approach (Extended Abstract).
International Joint Conference on Artificial Intelligence, IJCAI 2015. Invited paper to the Journal Track. Buenos Aires, Argentina
- [C12] M. Gavanelli, M. Milano, S. Bragaglia, F. Chesani, E. Marengo, P. Cagnoli
Multi-Criteria Optimal Planning for Energy Policies in CLP.
Accepted at the *30th International Conference on Logic Programming* as Technical Communication, 2014.
- [C11] M. Baldoni, C. Baroglio, F. Capuzzimati, E. Marengo, and V. Patti.
A Generalized Commitment Machine for 2CL Protocols and its Implementation.
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