

Curriculum Vitae

Associate Prof. Fabrizio Maria Maggi

March 2020

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Personal Details

Full Name and Title: Associate Prof. Fabrizio Maria Maggi

Email: maggi@inf.unibz.it

Nationality: Italian

Current Appointment: Associate Professor, Faculty of Computer Science, Free University of Bozen-Bolzano, Italy

Language Competence

Italian (mother tongue), English (C1), Spanish (B1)

Employment History

March 2020 – present

Associate Professor, Faculty of Computer Science, Free University of Bozen-Bolzano, Italy.

January 2019 – February 2019

Visiting Professor, Department of Engineering, Sapienza University of Rome, Italy.

Teaching:

- Lecturer for the PhD course “Achieving Business Process Intelligence through Process Mining”, Sapienza University of Rome, Italy

August 2017 – February 2020

Associate Professor, Institute of Computer Science, University of Tartu, Estonia.

Research:

- 1 book chapter, 28 conference (full) papers, 12 journal papers

Teaching:

- Lecturer for “Systems Modelling” course, University of Tartu, Estonia
- Lecturer for “Business Process Management” course, University of Tartu, Estonia
- Lecturer for “Seminar on Enterprise Software” course, University of Tartu, Estonia
- Lecturer for the PhD course “Process Mining: Improving Business Processes through Event Log Analysis”, Sapienza University of Rome, Italy

June 2014 – July 2017

Senior Researcher, Institute of Computer Science, University of Tartu, Estonia.

Research:

- 2 book chapters, 21 conference (full) papers, 11 journal papers
- Invitation to give a talk at Vienna University of Economics and Business, Austria
- Invitation to give a talk at Sapienza University of Rome, Italy
- **Researcher of the year award 2015 (University of Tartu)**

Teaching:

- Lecturer for “Systems Modelling” course, University of Tartu, Estonia
- Lecturer for “Business Process Management” course, University of Tartu, Estonia

January 2013 – May 2014

Research fellow, Institute of Computer Science, University of Tartu, Estonia.

Research:

- 21 conference (full) papers, 2 journal papers
- Invitation to give a talk at Estonian Theory Days in Otepää, Estonia
- Invitation to give a talk at Fondazione Bruno Kessler in Trento, Italy
- Invitation to give a talk at University of Padua, Italy

Teaching:

- Lecturer for “Systems Modelling” course, University of Tartu, Estonia
- Lecturer for “Business Process Management” course, University of Tartu, Estonia

March 2010 – December 2012

Post-doc, Department of Mathematics and Computer Science, TU/e University of Technology, Eindhoven, The Netherlands.

Research:

- 1 book chapter, 17 conference (full) papers, 2 journal papers
- Invitation to give a talk at Free University of Bozen-Bolzano, Italy
- Invitation to give a talk at University of Luebeck, Germany
- Invitation to give a talk at KSRI Speaker Series in Karlsruhe, Germany

Teaching:

- Tutorial assistant for “Metamodelling and Interoperability” course, TU/e Eindhoven, The Netherlands

March 2009 – November 2009

Visiting PhD student, Department of Computing, Imperial College, London.

Research:

- 1 conference paper

January 2007 – May 2010

PhD student, Department of Computer Science, University of Bari, Italy. **Awarded a National Research Fellowship from the University of Bari, Italy, to fund the three years of PhD.** Research subject: definition and experimentation of methods, techniques and technologies to model, measure and optimize processes. In particular the research activity concerns: context-aware process modelling, process automation through Service Oriented Architectures, and process adaptation from event logs. Activities and achievements during this period have included:

Research:

- 2 book chapters, 7 conference (full) papers
- Supervision of industrial research programmers
- Invitation to give a talk at “4th National Workshop GIIS”, Como, Italy

Teaching:

- Tutorial assistant for “Process and Quality Models” course, University of Bari, Italy
- Tutorial assistant for “Models for Software Evaluation and Improvement” course, University of Bari, Italy
- Tutorial assistant for “Experimental Methods in Software Development” course, University of Bari, Italy
- Tutorial assistant for “Software Engineering” course, University of Bari, Italy
- Lecturer for “Introduction to the Technological Innovation Process and Business Processes” (Training course), University of Bari, Italy
- Lecturer for “Process Technologies” (Training course), Exprivia SPA, Italy
- Lecturer for “Process Modelling and supporting tools” (Training course), Data Service SPA, Italy

July 2006 – December 2006

Research Assistant, Department of Computer Science, University of Bari, Italy. Activities and achievements during this period have included:

Research:

- Supervision of industrial research programmers

Teaching:

- “Process Modelling and supporting tools” (Training course), Cartesio SPA

October 2005 – June 2006

Research Assistant, Department of Engineering, University of Sannio, Italy.

Higher Education

May 2010

PhD in Computer Science, Department of Computer Science, University of Bari, Italy. PhD thesis entitled: “Process Modelling, Implementation and Improvement”.

October 2005

Master in "Software Technologies and Management" with distinction (Grade 110/110 cum laude), Department of Engineering, University of Sannio, Italy. Master project entitled: “Runtime discovery and late-binding of web services”. **Best student out of a class of 30 (selected after a preliminary competition).**

June 2004

Master in Teaching, Department of Mathematics, University “Federico II” of Naples, Italy. Grade 80/80.

October 2001

Laurea in Matematica, First Class Honours degree with Distinction (Grade 110/110 cum laude), Department of Mathematics, University “Federico II” of Naples, Italy. Undergraduate dissertation entitled: “Analysis and implementation of a numerical method for the real reversal of the Laplace transformation”.

Summer Schools

August 2014

13th Estonian Summer School on Computer and Systems Science (ESSCaSS 2014), University of Tartu, Estonia.

August 2013

12th Estonian Summer School on Computer and Systems Science (ESSCaSS 2013), University of Tartu, Estonia.

September 2008

GII Doctoral School in Computer Engineering, Co-located with the 23rd IEEE/ACM International Conference on Automated Software Engineering (ASE 2008), University of L’Aquila, Italy. *The project developed during the summer school has been selected for publication on Springer Verlag.*

September 2007

4th International Summer School on Software Engineering, University of Salerno, Italy.

Occupational skills and competences

- Programming languages: Java, C, SQL, R, Python
- Markup languages: XML
- Good experience on use of Java Web Services, WSDL, BPEL, Apache Tomcat, ActiveBPEL
- Distributed Systems, Middleware, Enterprise Application: Java RMI, EJB (J2EE), SERVLET, JSP
- Good Experience on use of Process Modelling Languages (Petri nets, BPMN, UML ADs, EPCs, BPEL, YAWL, Declare)
- BPM tools: Signavio, Bizagi, Bonita
- Process Mining tools: Celonis, Disco, Minit, MyInvenio, ProM, Apromore
- Database design, SQL, JDBC
- Requirements Analysis and Design Process with UML
- Software Testing with JUnit
- Acquaintance of Javascript
- Good experience on use of Eclipse tool.
- Operating systems: Windows, Linux
- Organization and business management: Organizational planning; Project Management, Strategic Management and Business Plan, Human Resource Management
- Sociology, Psychology, Pedagogy, Teaching methods

I am an expert ProM developer. ProM is the main scientific platform for the implementation of process mining algorithms (implemented in Java). I have developed more than 20 plug-ins in ProM implementing techniques ranging from process discovery to conformance checking to online analysis of log data (e.g., compliance and predictive monitoring of business processes). The most well-known plug-ins I have developed in ProM are the DeclareMiner, the DeclareChecker and MobuconLTL. Some of these plug-ins are described in the demo paper:

F. M. Maggi, **Declarative Process Mining with the Declare Component of ProM**, Proceedings of the Demo Track of the 11th Conference on Business Process Management 2013, Beijing, China

I am one of the authors of the process mining Manifesto published in 2011 and one of the members of the team responsible for the Italian translation of the Manifesto published in:

W. M. P. van der Aalst, A. Burattin, M. de Leoni, A. Guzzo, F. M. Maggi, M. Montali, **Process Mining: come estrarre conoscenza dai log dei sistemi informativi orientati ai processi**, Mondo Digitale – AICA, ANNO XI - N.43 - Settembre 2012.

I am one of the developers of Nirdizati, a web application for predictive process monitoring (implemented in Python):

<http://nirdizati.org/>

Teaching Experience

Teaching Statement

I have had a variety of enjoyable and interesting experiences in teaching. At the University of Bari I was tutorial assistant in different courses like “Software Engineering”, “Process and Quality Models”, “Experimental Methods in Software Development”.

At TU/e University of Technology, Eindhoven, I have been tutorial assistant for the “Metamodelling and Interoperability” course. I have discussed with students the differences between imperative and declarative approaches in process modelling. In particular, I have introduced them to Declare, a declarative language for process modelling. Moreover, during this course, I have taken care of everything related to an assignment given to students as a part of the final exam (definition of the assignment, tutoring and marking).

At the University of Tartu, I am currently lecturing the “Systems Modelling” course. This course is part of the Software Engineering curriculum and provides skills in UML modelling, Petri nets and State Charts. I am also lecturing the “Business Process Management” course. This course include process modelling with BPMN, qualitative and quantitative process analysis and process mining. In the last year I have been teaching a seminar where students learn to write a master thesis. In particular, the seminar is focused on how to do a literature review and how to plan an experimentation.

I have been lecturer for two PhD courses on process mining at La Sapienza University of Rome.

Committee Memberships

2020	Committee member of the PhD thesis defence of Greta Adamo (FBK)
2018	Committee member of the PhD thesis defence of Mahdi Alizadeh (TU/e)
2014-2019	Committee member of the Software Engineering panel of the master’s thesis defences (Institute of Computer Science, University of Tartu)

Supervision

PhD Student Supervision

2019-Present	Co-Supervision of the PhD project of Maksym Yerokhin
2017-Present	Co-Supervision of the PhD project of Volodymyr Leno
2014-2019	Co-supervision of the PhD project of Ilya Verenich
2014-2019	Co-supervision of the PhD project of Irene Teinemaa

Bachelor’s and Master’s thesis Supervision

2019- 2020	Ongoing Supervision of 7 Master’s projects (Anti Alman, Kaspar Hollo, Karl-Kristjan Kokk, Musabir Musabayli, Aladdin Shikhizada, Fodio Tureta, Sabuhi Yusifov) Ongoing Supervision of 2 Bachelor’s projects (Karl Johannes Balder, Renata Siimon)
2018- 2019	Supervision of 4 Master’s projects (Yevhen Dorodnikov, Denizalp Kapısız, Joonas Puura, Clive Tinashe Mawoko)

2017- 2018	Supervision of 4 Master's projects (Geraldine Granada, Kaur Järvpõld, Tõnis Kasekamp, Vasyl Skydanienko)
2016- 2017	Supervision of 10 Master's projects (Ilia Aptsiauri, Etibar Hasanov, Ijlal Hussain, Kerwin Jorbina, Cigin Koshy, Arne Lapõnin, Karli Oruste, Kostiantyn Popov, Allar Soo, Anton Yeshchenko)
2015-2016	Supervision of 2 Master's projects (Khachatur Hambardzumyan, Juraj Jarábek)
2014-2015	Supervision of 2 Master's projects (Pätris Halapuu, Bogdan Semiletko) Supervision of 2 Bachelor's projects (Taavi Kala, Tõnis Kasekamp)
2013-2014	Supervision of 1 Master's project (Margus Räim)
2012-2013	Supervision of 1 Master's project (Jevgeni Martjušev)
2010-2011	Supervision of 1 Master's project (Dennis Schunselaar)
2008-2009	Supervision of 1 Master's project Supervision of 2 Bachelor's projects
2007-2008	Supervision of 1 Bachelor's project
2006-2007	Supervision of 1 Master's project Supervision of 1 Bachelor's project

Courses Taught

PhD Courses

2019	Lecturer for the PhD course "Achieving Business Process Intelligence through Process Mining", Sapienza University of Rome, Italy
2017	Lecturer for the PhD course "Process Mining: Improving Business Processes through Event Log Analysis", Sapienza University of Rome, Italy

Master's Courses

2019-2020	Coordinator and Responsible for 4 th year course on "Systems Modelling" Coordinator and Responsible for 5 th year "Seminar on Enterprise Software"
2018-2019	Coordinator and Responsible for 4 th year course on "Systems Modelling" Lecturer for 4 th year course on "Business Process Management" Coordinator and Responsible for 5 th year "Seminar on Enterprise Software"
2017-2018	Coordinator and Responsible for 4 th year course on "Systems Modelling" Lecturer for 4 th year course on "Business Process Management" Coordinator and Responsible for 5 th year "Seminar on Enterprise Software"
2016-2017	Coordinator and Responsible for 4 th year course on "Systems Modelling" Lecturer for 4 th year course on "Business Process Management"
2015-2016	Coordinator and Responsible for 4 th year course on "Systems Modelling" Lecturer for 4 th year course on "Business Process Management"
2014-2015	Coordinator and Responsible for 4 th year course on "Systems Modelling" Lecturer for 4 th year course on "Business Process Management"

2013-2014	Coordinator and Responsible for 4 th year course on “Systems Modelling” Lecturer for 4 th year course on “Business Process Management”
2012-2013	Lecturer for 4 th year course on “Business Process Management”

Tutorial Assistance

2011-2012	Ran tutorials and marking for 5 th year course on “Metamodelling and Interoperability”.
2010-2011	Ran tutorials and marking for 5 th year course on “Metamodelling and Interoperability”.
2008-2009	Ran tutorials and marking for 3 rd year courses on “Process and Quality Models”, and “Models for Software Evaluation and Improvement”.
2008-2009	Ran tutorials and marking for a 4 th year course on “Experimental Methods in Software Development”.
2008-2009	Ran tutorials for a 1 st year course on “Software Engineering”.
2007-2008	Ran tutorials and marking for 3 rd year courses on “Process and Quality Models”, and “Models for Software Evaluation and Improvement”.

Training Courses

2008	“Introduction to the Technological Innovation Process and Business Processes”, University of Bari, Italy
2007	“Process Modelling and supporting tools”, Data Service SPA, Italy
2007	“Process Technologies”, Exprivia SPA, Italy
2006	“Process Modelling and supporting tools”, Cartesio SPA, Italy

Other Academic Responsibilities

- **September 2018 – December 2019:** Erasmus Coordinator, Institute of Computer Science, University of Tartu, Estonia.
- **2018:** Member of the Organizing Committee of CAiSE 2018.
- **Since 2017:** Chair of the AI4BPM workshop on Artificial Intelligence for Business Process Management co-located with the BPM conference.
- **2013, 2014, 2015, 2016:** Chair of the Special Session on Process Mining at the IEEE Conference on Computational Intelligence and Data Mining (CIDM).

Research Experience

Research Statement

My PhD focused on the definition and application of techniques for supporting companies to model, implement, monitor and continuously improve their business processes. The results achieved during my PhD contributed to solve three main issues (i) customization of process models for different user requirements and environmental peculiarities; (ii) translation of abstract process models defined by domain experts into executable processes, and (iii) minimal revision from event logs to resolve discrepancies between existing abstract process models and their executions.

The first issue has been addressed by structuring a knowledge base of business processes to extract models on the basis of different markets and customer needs. In particular, the knowledge base was organized using decision tables formalism to formalize the relations between different context factors and the process characteristics. This technique enables a rigorous understanding of the environmental structure and its influence on process models and provides a method to automatically identify the suitable model which otherwise could be a laborious, costly and error-prone task. The second issue refers to process models automation and to the “non-trivial” task of defining a conceptual mapping between a process modelling language and an execution language. In particular, my effort has been focused on the definition of an algorithm to translate abstract process models into BPEL so that the final implementation of the business process is realized as a Service Oriented Architecture (SOA).

These techniques have been applied in a research project called “Distributed Production as Innovative System” (DIPIS). In this study, I have developed a SOA application supporting the fish selling in the electronic market of Manfredonia (Italy). Starting from a context-aware requirements definition and the modelling of the selling process, the project has developed a Service Oriented Architecture to support the activities needed for the fish selling in the electronic market. This has provided a first practical validation of the available technologies to model and automate a business process. In particular, it has highlighted the need for a context-aware process modelling and the effective support provided by the translation algorithm for the implementation of a Service Oriented Architecture.

I have addressed the last of the above issues regarding process revision, in the last seven months of my PhD during my research experience at the Department of Computing, Imperial College, London. In particular, I have worked on the formalization of an approach for automated revision of business process models through learning. Through process revision it is possible to keep a process model in line with changes in current practice, adapting the existing process model according to the event logs of the actual execution of the process tasks. The approach minimally revises the existing process model to account for the discrepancies between the model and the logs. This has the advantage of giving users a model which is “close” to the one they have previously used, thus enabling them to reuse the analysis and reasoning previously conducted, whilst highlighting the changes necessary to account for the new log entries. The approach has been implemented and applied to a case-study. An in-depth analysis of the state of the art has been conducted to contrast the proposed approach with existing business process discovery techniques.

My research activity as a post-doc at TU/e has been focused on the development of declarative process mining techniques. Process mining can be used to effectively extract process models from logs with example behaviour. Cross-correlating a discovered model with information in the log can be used to improve the underlying process. This research started from the observation that the traditional process discovery techniques have two important drawbacks. First, the produced models tend to be large and complex, especially in flexible environments where process executions involve multiple alternatives. This “overload” of information is caused by the fact that traditional discovery techniques construct imperative models explicitly showing all possible behaviours. Second, existing techniques offer limited possibilities to guide the mining process towards specific properties of interest. I have proposed to solve these problems by discovering declarative models. Using a declarative model, the discovered

process behaviour is described as a (compact) set of rules. Moreover, the discovery of such models can easily be guided in terms of types of rules to be discovered. I have developed, in the process mining tool ProM, discovery techniques based on Declare, a declarative language that provides more flexibility than conventional imperative notations.

During my research work at TU/e I have also developed a novel runtime verification framework for declarative process models based on coloured automata. The framework continuously verifies compliance of a process execution with respect to a predefined constraint model. The approach is able to provide meaningful diagnostics even after a constraint is violated. This is important as in reality people and organizations will deviate and in many situations it is not desirable or even impossible to circumvent constraint violations. Traditional approaches that simply check constraints are unable to recover after the first violation and still foresee (inevitable) future violations. Therefore, I have investigated approaches to recover after the first constraint violation. Furthermore, as there are often many interacting constraints, it is important to keep track of individual constraint violations but also of combinations of potentially conflicting constraints. I have therefore operationalised the notion of conflicting constraints working on the implementation of a toolset (realized using the operational support plug-in in ProM) able to detect immediately conflicting constraints (as well as individual constraint violations) and to provide meaningful diagnostics.

At the University of Tartu, my research focus is on extending the declarative process mining techniques developed in Eindhoven taking the data perspective into consideration. Furthermore, I have been trying to extend these techniques to deal with a class of constraints larger than the one provided by Declare. Very recently I have been working on two emerging techniques - deviance mining and predictive monitoring that leverage information hidden in business process execution logs in order to provide guidance to stakeholders so that they can steer the process towards consistent and compliant outcomes and higher process performance. Deviance mining deals with the analysis of process execution logs offline in order to identify typical deviant executions and to characterize deviance that leads to better or to worse performance. Predictive monitoring meanwhile aims at predicting - at runtime - the impact of actions and decisions of process participants on the probable outcomes of ongoing process executions. Together, these two techniques enable evidence-based management of business processes, where process workers and analysts continuously receive guidance to achieve more consistent and compliant process outcomes and a higher performance. In 2016, I started working on the definition of semantics and analysis techniques of DMN Decision Tables.

Research Activities in Research Projects

January 2020 – present

Principal Investigator, Prescriptive Monitoring of Business Processes (PRG887) project, Institute of Computer Science, University of Tartu, Estonia.

Implementation and experimentation of Process-Oriented Recommender Systems.

September 2019 – present

Senior Investigator, ERC Advanced Grant (PI: Marlon Dumas), The Process Improvement Explorer: Automated Discovery and Assessment of Business Process Improvement Opportunities.

Use of Machine learning techniques for predictive and prescriptive monitoring of business processes. Robotic Process Automation with Process Mining.

January 2016 – December 2019

Theme Leader, Estonian Center of Excellence in ICT Research (TK148), Institute of Computer Science, University of Tartu, Estonia.

Collaboration with three co-PIs in the fields of compliance monitoring, deviance analysis in business processes, and DMN decision tables to support decision making in business process executions.

January 2014 – December 2019

Theme Leader, Data-Driven Management of Software and Business Processes (IUT20-55), Institute of Computer Science, University of Tartu, Estonia.

Implementation and experimentation of techniques for data-aware declarative process mining. Development of techniques for predictive and prescriptive process monitoring.

September 2017 – October 2018

WP Leader, “Go-Swift” project, Institute of Computer Science, University of Tartu, Estonia.

Use of predictive process monitoring and deviance mining techniques to support a system to manage border crossings. The project was financially supported by the EU’s European Regional Development Fund, within the program “Support for Applied Research in Smart Specialization Growth Areas”, and the objective “Information and communication technology (ICT) horizontally through other sectors”. The duration of the project was 18 months, from May 2017 until October 2018.

March 2010 – December 2012

Post-doc, “Poseidon” project, Department of Mathematics and Computer Science, TU/e University of Technology, Eindhoven, the Netherlands.

Evaluation of the health of systems of systems through declarative process mining and run-time monitoring. The Poseidon project was a collaborative research project coordinated by the Embedded Systems Institute at Eindhoven University of Technology. Working with the industrial partner Thales, its aim was to discover new ways to build dynamic information-centric systems-of systems, deriving its research statement from the maritime safety and security domain. Partners: Thales Naval Netherlands, Noldus Information Technology, Delft University of Technology, Eindhoven University of Technology, Free University of Amsterdam, University of Amsterdam, University of Maastricht, Embedded Systems Institute. Period: June 2007 – May 2011.

September 2008 – February 2010

Research Assistant, “Distributed Production as Innovative System” (DIPIS) project, Department of Computer Science, University of Bari.

Experimentation of a Process Oriented Developing paradigm.

January 2007 – February 2010

Research Supervisor, Industrial Research Project of Ser&Practices (spin-off of the University of Bari), Department of Computer Science, University of Bari.

Definition of an algorithm to translate a process model into BPEL. Design and development of a tool to translate a process model into an executable BPEL workflow.

January 2007 – February 2010

Research Supervisor, Industrial Research Project of Ser&Practices (spin-off of the University of Bari), Department of Computer Science, University of Bari.

Definition of a business processes knowledge base for a context-aware process modelling.

May 2007 – March 2009

Research Assistant, “Knowledge for Rapid Development and Maintenance” (CNOS) project, Exprivia SPA. Definition and first experimentation of the technologies developed in my PhD.

July 2006 – December 2006

Software Analyst/Designer/Developer, Industrial Research Project of Ser&Practices (spin-off of the University of Bari), Department of Computer Science, University of Bari.

Design and development of a tool to check the process models consistency.

November 2005 – June 2006

Software Analyst/Designer/Developer, “Virtual Districts” project, RCOST research centre (Department of Engineering, University of Sannio) and ASI (Agenzia Spaziale Italiana). Design and development of a tool to manage announcements publication with local and network applications (using Java, RMI, J2EE, JSP, Servlet, Web Services, WSDL and BPEL).

June 2005 – October 2005

Software Designer/Developer, C-CUBO: classified and certified components project, RCOST research centre (Department of Engineering, University of Sannio).

Development and deployment of Web Services using server Tomcat with Apache-AXIS; Web Services orchestration using engine Active-BPEL; Design and development of a tool for the automatic generation of proxies for abstract and concrete Web Services.

January 2005 – June 2005

Software Analyst/Designer/Developer, Self-employment.

Design and development team of a Collaborative Work Platform with local and network applications (using Java, RMI, J2EE, JSP, Servlet, Web Service, XML).

March 2005

Software Analyst/Designer, C-CUBO: classified and certified components project, RCOST research centre (Department of Engineering, University of Sannio).

Definition of the user requirements WP2 within C-CUBO.

Other Proposals

Principal Investigator of the Future and Emerging Technologies - FET-Open entitled CAT (Continuous Process Auditing Technology). Successfully passed the first evaluation stage of the FETOpen scheme in 2012.

Invited Talks

February 2015	“Declarative Process Mining”, Vienna University of Economics and Business, Austria
July 2014	“Declarative Process Mining”, Sapienza University of Rome, Italy
May 2014	“Predictive Monitoring of Business Processes”, Estonian Theory Days in Narva, Estonia
June 2013	“Declarative Process Mining”, University of Padua, Italy
April 2013	“Declarative Process Mining”, Fondazione Bruno Kessler, Trento, Italy
February 2013	“Declarative Process Mining”, Estonian Theory Days in Otepää, Estonia
April 2012	“Compliance Monitoring”, KSRI Speaker Series in Karlsruhe, Germany
December 2011	“Runtime Verification of LTL-Based Declarative Process Models”, Department of Computer Science, University of Luebeck, Germany
October 2011	“Runtime Verification of LTL-Based Declarative Process Models”, Department of Computer Science, University of Bolzano, Italy
April 2008	“Process Oriented Development”, Department of Computer Science, University of Bari, Italy
September 2007	“Process Modelling, Measuring and Optimization”, “4 th National Workshop GIIS”, Como, Italy

Main Program Committee and Conference Chair Memberships, Editorial Activities

- I have organized a special session on process mining at the IEEE Conference on Computational Intelligence and Data Mining (CIDM) 2013.
- I have been member of the program committee of the 17th IEEE Conference on Business Informatics (CBI 2013).
- I have been member of the program committee of the 19th IEEE Conference on Business Informatics (CBI 2014).
- I have been member of the program committee of the 4th International Symposium on Data-Driven Process Discovery and Analysis (SIMPDA 2014).
- I have organized a special session on process mining at the IEEE Conference on Computational Intelligence and Data Mining (CIDM) 2014.
- I have been member of the program committee of ICIMSA 2015 (International Conference on Information, Management Science and Applications).
- I have been member of the program committee of ICSOFT-EA 2015 (10th International Conference on Software Engineering and Applications).
- I have been member of the program committee of the 20th IEEE Conference on Business Informatics (CBI 2015).
- I have been Workshop Chair of 14th International Conference on Perspectives in Business Informatics Research (BIR 2015)
- I have been member of the program committee of the 2015 International Conference on Software and Systems Process (ICSSP 2015).
- I have been Proceedings Chair of the 2015 International Conference on Software and Systems Process (ICSSP 2015).
- I have organized a special session on process mining at the IEEE Conference on Computational Intelligence and Data Mining (CIDM) 2015.
- I have been member of the program committee of BPM 2016, the 14th International Conference on Business Process Management.
- I have been member of the program committee of ICSOFT-EA 2016 (11th International Conference on Software Engineering and Applications).
- I have been member of the program committee of the 2016 International Conference on Software and Systems Process (ICSSP 2016).
- I have been member of the program committee of the 6th International Symposium on Data-Driven Process Discovery and Analysis (SIMPDA 2016).
- I have been member of the program committee of the 20th IEEE Conference on Business Informatics (CBI 2016).
- I have organized the special session on process mining at the IEEE Conference on Computational Intelligence and Data Mining (CIDM) 2016.
- I have been Senior member of the program committee of BPM 2017, the 15th International Conference on Business Process Management.
- I have been Program Chair of the 2017 International Conference on Software and Systems Process (ICSSP 2017).
- I have been member of the program committee of the 7th International Symposium on Data-Driven Process Discovery and Analysis (SIMPDA 2017).
- I have been Editor of Issue 6 of CSIMQ (Complex Systems Informatics and Modeling Quarterly) journal on Selected Topics on Business Informatics Research.
- I have organized the first BPM Workshop on Business Process Innovation with Artificial Intelligence (BPAI 2017).
- I have been member of the program committee of SAC 2017.
- I have organized the Special Session on Business Processes and Fuzzy Logic at the 2017 IEEE International Conference on Fuzzy Systems.
- I have been member of the program committee of the 2018 International Conference on Software and Systems Process (ICSSP 2018).

- I have been member of the program committee of the 8th International Symposium on Data-Driven Process Discovery and Analysis (SIMPDA 2018).
- I have been member of the program committee of SAC 2018, the 33rd ACM/SIGAPP Symposium On Applied Computing.
- I have been member of the program committee of the 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2018)
- I have been member of the program committee of CAiSE 2018, the 30th International Conference on Advanced Information Systems Engineering.
- I have been member of the program committee of BPM 2018, the 16th International Conference on Business Process Management.
- I have organized the second BPM Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2018).
- I have been member of the program committee of BIS 2019, the 22nd International Conference on Business Information Systems.
- I have been member of the program committee of the 2019 International Conference on Software and Systems Process (ICSSP 2019).
- I have been member of the program committee of the 9th International Symposium on Data-Driven Process Discovery and Analysis (SIMPDA 2019).
- I have been member of the program committee of CAiSE 2019, the 31st International Conference on Advanced Information Systems Engineering.
- I have been Senior member of the program committee of BPM 2019, the 17th International Conference on Business Process Management.
- I have been guest Editor of the JSME special journal issue for ICSSP 2017.
- I have been guest Editor of the Special Issue “Business Process Innovations with Artificial Intelligence” in the Journal on Data Semantics.
- I have organized the third BPM Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2019).
- I have been member of the ECMLPKDD 2019 Guest Editorial Board.
- I have been guest Editor of the Special Issue “Artificial Intelligence for Business Process Management – 2018” in the Journal on Data Semantics.
- I am member of the program committee of the 22nd International Conference on Knowledge Engineering and Knowledge Management (EKAW 2020)
- I am member of the ECMLPKDD 2020 Guest Editorial Board.
- I am member of the program committee of BIS 2020, the 23rd International Conference on Business Information Systems.
- I am member of the program committee of the 2020 International Conference on Software and Systems Process (ICSSP 2020).
- I am member of the program committee of CAiSE 2020, the 32nd International Conference on Advanced Information Systems Engineering.
- I am Senior member of the program committee of BPM 2020, the 18th International Conference on Business Process Management.
- I am organizing the fourth BPM Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2020).
- I am guest Editor of the Special Issue “Artificial Intelligence for Business Process Management – 2019” in the Journal on Data Semantics.

PUBLICATIONS

Referred Journal Publications

1. V. Leno, M. Dumas, F. M. Maggi, M. La Rosa, A. Polyvyanyy, **Automated discovery of declarative process models with correlated data conditions**, Information Systems, 2020.
2. H. Nguyen, M. Dumas, A. H. M. ter Hofstede, M. La Rosa, F. M. Maggi, **Stage-based discovery of business process models from event logs**, Information Systems, 2019.
3. I. Verenich, M. Dumas, M. La Rosa, F. M. Maggi, I. Teinmaa, **Survey and Cross-benchmark Comparison of Remaining Time Prediction Methods in Business Process Monitoring**, ACM TIST, 2019.
4. I. Teinmaa, M. Dumas, M. La Rosa, F. M. Maggi, **Outcome-Oriented Predictive Process Monitoring: Review and Benchmark**, ACM Transactions on Knowledge Discovery from Data, 2019.
5. A. Senderovich, C. Di Francescomarino, F. M. Maggi, **From Knowledge-Driven to Data-Driven Inter-Case Feature Encoding in Predictive Process Monitoring**, Information Systems, 2019.
6. D. Calvanese, M. Dumas, F. M. Maggi, M. Montali, **Semantic DMN: Formalizing and Reasoning About Decisions in the Presence of Background Knowledge**, Theory and Practice of Logic Programming, 2018.
7. A. Augusto, R. Conforti, M. Dumas, M. La Rosa, F. M. Maggi, A. Marrella, M. Mecella, A. Soo, **Automated Discovery of Process Models from Event Logs: Review and Benchmark**, IEEE Transactions on Knowledge and Data Engineering, 2018.
8. I. Teinmaa, M. Dumas, A. Leontjeva, F. M. Maggi, **Temporal Stability in Predictive Process Monitoring**, Data Mining and Knowledge Discovery, 2018.
9. C. Di Francescomarino, M. Dumas, M. Federici, C. Ghidini, F. M. Maggi, W. Rizzi, L. Simonetto, **Genetic Algorithms for Hyperparameter Optimization in Predictive Business Process Monitoring**, Information Systems, 2018.
10. C. Di Ciccio, F. M. Maggi, M. Montali, J. Mendling, **On the Relevance of a Business Constraint to an Event Log**, Information Systems, 2018.
11. D. Calvanese, M. Dumas, Ü. Laurson, F. M. Maggi, M. Montali, I. Teinmaa, **Semantics, Analysis and Simplification of DMN Decision Tables**, Information Systems, 2018.
12. F. M. Maggi, C. Di Ciccio, C. Di Francescomarino, T. Kala, **Parallel algorithms for the automated discovery of declarative process models**, Information Systems, 2018.
13. A. Jalali, F. M. Maggi, H. Reijers, **A Hybrid Approach for Aspect-Oriented Business Process Modeling**, Journal of Software: Evolution and Process 2017
14. C. Di Francescomarino, M. Dumas, F. M. Maggi, I. Teinmaa, **Clustering-Based Predictive Process Monitoring**, IEEE Transactions on Service Computing, 2017.

15. C. Di Ciccio, F. M. Maggi, M. Montali, J. Mendling, **Resolving inconsistencies and redundancies in declarative process models**, Information Systems, 2017.
16. A. Burattin, F. M. Maggi, A. Sperduti, **Conformance Checking Based on Multi-Perspective Declarative Process Models**, Expert Systems with Applications, 2016.
17. M. L. Bernardi, M. Cimitile, C. Di Francescomarino, F. M. Maggi, **Do Activity Lifecycles Affect the Validity of a Business Rule in a Business Process?** Information Systems, 2016.
18. N. C. Narendra, A. Norta, M. Mahunnah, L. Ma, F. M. Maggi, **Sound Conflict Management and Resolution for Virtual-Enterprise Collaborations**, Service Oriented Computing and Applications, 2015.
19. F. M. Maggi, M. Westergaard, **Designing Software for Operational Decision Support through Coloured Petri nets**, Enterprise Information Systems, 2015.
20. C. Di Ciccio, F. M. Maggi, J. Mendling, **Efficient Discovery of Target-Branched Declare Constraints**, Information Systems, 2015.
21. A. Burattin, M. Cimitile, F. M. Maggi, A. Sperduti, **Online Discovery of Declarative Process Models from Event Streams**, IEEE Transactions on Service Computing, 2015.
22. M. Rovani, F. M. Maggi, M. de Leoni, W. M. P. van der Aalst, **Declarative process mining in healthcare**, Expert Systems with Applications, 2015.
23. L. T. Ly, F. M. Maggi, M. Montali, S. Rinderle-Ma, W. M. P. van der Aalst, **Compliance Monitoring in Business Processes: Functionalities, Application, and Tool-Support**, Information Systems, 2015.
24. M. de Leoni, F. M. Maggi, W. M. P. van der Aalst, **An Alignment-based Framework to Check the Conformance of Declarative Process Models and to Pre-process Event-Log Data**, Information Systems, 2015.
25. F. M. Maggi, M. Westergaard, **Using Timed Automata for a Priori Warnings and Planning for Timed Declarative Process Models**, International Journal on Cooperative information systems, 2014.
26. M. Montali, F. M. Maggi, F. Chesani, P. Mello, W. M. P. van der Aalst, **Monitoring Business Constraints with the Event Calculus**, ACM Transactions on Intelligent Systems and Technology (ACM TIST), 2013.
27. W. M. P. van der Aalst, A. Burattin, M. de Leoni, A. Guzzo, F. M. Maggi, M. Montali, **Process Mining: come estrarre conoscenza dai log dei sistemi informativi orientati ai processi**, Mondo Digitale – AICA, ANNO XI - N.43 - Settembre 2012.

Referred Conference Publications

28. F. M. Maggi, M. Montali, R. Peñaloza, **Temporal Logics Over Finite Traces with Uncertainty**, 34th AAAI Conference on Artificial Intelligence (AAAI 2020).
29. V. Leno, M. Dumas, M. La Rosa, F. M. Maggi, A. Polyvyanyy, **Automated Discovery of Data Transformations for Robotic Process Automation**, AAAI-20 Workshop on Intelligent Process Automation. **(BEST PAPER AWARD)**

30. V. Leno, A. Polyvyanyy, M. La Rosa, M. Dumas, F. M. Maggi, **Action Logger: Enabling Process Mining for Robotic Process Automation**, BPM (PhD/Demos) 2019, Vienna, Austria.
31. W. Rizzi, L. Simonetto, C. Di Francescomarino, C. Ghidini, T. Kasekamp, F. M. Maggi, **Nirdizati 2.0: New Features and Redesigned Backend**, BPM (PhD/Demos) 2019, Vienna, Austria.
32. S. Agostinelli, F. M. Maggi, A. Marrella, F. Sapio, **Achieving GDPR Compliance of BPMN Process Models**, CAiSE (Forum) 2019, Rome, Italy.
33. A. Burattin, G. Guizzardi, F. M. Maggi, M. Montali, **Fifty Shades of Green: How Informative is a Compliant Process Trace?** 31st International Conference on Advanced Information Systems Engineering (CAiSE 2019), Rome, Italy.
34. F. Chesani, C. Di Francescomarino, C. Ghidini, D. Loreti, F. M. Maggi, P. Mello, M. Montali, V. Skydanienko, S. Tessaris, **Towards the Generation of the “Perfect” Log Using Abductive Logic Programming**, 34th Italian Conference on Computational Logic (CILC 2019), Trieste, Italy.
35. S. Agostinelli, F. M. Maggi, A. Marrella, M. Mecella, **Verifying Petri Net-Based Process Models using Automated Planning**, EDOC Workshops 2019, Paris, France.
36. S. Agostinelli, F. M. Maggi, A. Marrella, F. Milani, **A User Evaluation of Process Discovery Algorithms in a Software Engineering Company**, 23rd International EDOC Conference (EDOC 2019), Paris, France.
37. F. M. Maggi, M. Montali, U. Bhat, **Compliance Monitoring of Multi-Perspective Declarative Process Models**, 23rd International EDOC Conference (EDOC 2019), Paris, France.
38. P. Ardimento, M. L. Bernardi, M. Cimitile, F. M. Maggi, **Evaluating coding behavior in software development processes: a process mining approach**, 2019 International Conference on Software and Systems Process (ICSSP 2019), Montréal, Canada.
39. S. Coltellse, F. M. Maggi, A. Marrella, L. Massarelli, L. Querzoni, **Triage of IoT Attacks Through Process Mining**, 27th International Conference on Cooperative Information Systems (CoopIS 2019), Rhodes, Greece.
40. F. M. Maggi, A. Marrella, G. Capezzuto, A. Armas-Cervantes, **Explaining Non-compliance of Business Process Models Through Automated Planning**, 16th International Conference on Service-Oriented Computing (ICSOC 2018), Hangzhou, Zhejiang, China.
41. V. Leno, M. Dumas and F. M. Maggi, **Correlating Activation and Target Conditions in Data-Aware Declarative Process Discovery**, 16th International Conference on Business Process Management (BPM 2018), Sydney, Australia.
42. C. Di Francescomarino, C. Ghidini, F. M. Maggi and F. Milani, **Predictive Process Monitoring Methods: Which One Suits Me Best?** 16th International Conference on Business Process Management (BPM 2018), Sydney, Australia.
43. I. Teinemaa, N. Tax, M. de Leoni, M. Dumas and F. M. Maggi, **Alarm-Based Prescriptive Process Monitoring**, BPM (Forum) 2018, Sydney, Australia.

44. V. Skydanienko, C. Di Francescomarino, C. Ghidini, F. M. Maggi, **A Tool for Generating Event Logs from Multi-Perspective Declare Models**, BPM (Dissertation/Demos/Industry) 2018, Sydney, Australia.
45. I. Verenich, S. Mõskovski, S. Raboczi, M. Dumas, M. La Rosa, F. M. Maggi, **Predictive Process Monitoring in Apromore**, CAiSE (Forum) 2018, Tallinn, Estonia. **(BEST DEMO AWARD)**
46. V. Leno, A. Armas-Cervantes, M. Dumas, M. La Rosa, F. M. Maggi, **Discovering Process Maps from Event Streams**, 2018 International Conference on Software and Systems Process (ICSSP 2018), Gothenburg, Sweden.
47. F. Milani, F. M. Maggi, **A Comparative Evaluation of Log-Based Process Performance Analysis Techniques**, 21st International Conference on Business Information Systems (BIS 2018), Berlin, Germany.
48. D. Schunselaar, T. Slaats, F. M. Maggi, H. Reijers, W. M. P. van der Aalst, **Mining Hybrid Business Process Models: A Quest for Better Precision**, 21st International Conference on Business Information Systems (BIS 2018), Berlin, Germany.
49. R. De Masellis, C. Di Francescomarino, C. Ghidini, A. Lapõnin, F. M. Maggi, **Rule Propagation: Adapting Procedural Process Models to Declarative Business Rules**, 21st International EDOC Conference (EDOC 2017), Quebec City, Canada.
50. C. Di Francescomarino, C. Ghidini, F. M. Maggi, G. Petrucci, A. Yeshchenko, **An Eye into the Future: Leveraging A-Priori Knowledge in Predictive Business Process Monitoring**, 15th International Conference on Business Process Management (BPM 2017), Barcelona, Spain.
51. A. Senderovich, C. Di Francescomarino, C. Ghidini, K. Jorbina, F. M. Maggi, **Intra and Inter-Case Features in Predictive Process Monitoring: A Tale of Two Dimensions**, 15th International Conference on Business Process Management (BPM 2017), Barcelona, Spain. **(BEST PAPER SHORTLIST)**
52. K. Jorbina, A. Rozumnyi, I. Verenich, C. Di Francescomarino, M. Dumas, C. Ghidini, F. M. Maggi, M. La Rosa, S. Raboczi, **Nirdizati: A Web-Based Tool for Predictive Process Monitoring**, BPM (Demos) 2017, Barcelona, Spain. **(BEST DEMO AWARD)**
53. A. Janes, F. M. Maggi, A. Marrella, M. Montali, **From Zero to Hero: A Process Mining Tutorial**, 18th International Conference on Product-Focused Software Process Improvement (PROFES 2017), Innsbruck, Austria.
54. D. Calvanese, M. Dumas, F. M. Maggi, M. Montali, **Semantic DMN: Formalizing Decision Models with Domain Knowledge**, RuleML+RR: International Joint Conference on Rules and Reasoning (RuleML+RR 2017), London, UK. **(BEST PAPER AWARD)**
55. H. Nguyen, M. Dumas, A. H. M. ter Hofstede, M. La Rosa, F. M. Maggi, **Mining Business Process Stages from Event Logs**, 29th International Conference on Advanced Information Systems Engineering (CAiSE 2017), Essen, Germany.
56. G. De Giacomo, F. M. Maggi, A. Marrella, F. Patrizi, **On the Disruptive Effectiveness of Automated Planning for LTLf-based Trace Alignment**, 31st AAAI Conference on Artificial Intelligence (AAAI-17), San Francisco, California USA.

57. T. Slaats, D. Schunselaar, F. M. Maggi, H. Reijers, **The Semantics of Hybrid Process Models**, 24th International Conference on Cooperative Information Systems 2016 (CoopIS 2016), Rhodes, Greece.
58. R. De Masellis, C. Di Francescomarino, C. Ghidini, F. M. Maggi, **Declarative Process Models: Different Ways to be Hierarchical**, 14th International Conference on Service-Oriented Computing (ICSOC 2016), Banff, Alberta, Canada.
59. S. Schönig, C. Di Ciccio, F. M. Maggi, J. Mendling, **Discovery of Multi-Perspective Declarative Process Models**, 14th International Conference on Service-Oriented Computing (ICSOC 2016), Banff, Alberta, Canada.
60. T. Kala, F. M. Maggi, C. Di Ciccio, C. Di Francescomarino, **Apriori and Sequence Analysis for Discovering Declarative Process Models**, 20th International EDOC Conference (EDOC 2016), Vienna, Austria. **(BEST PAPER SHORTLIST)**
61. D. Calvanese, M. Dumas, Ü. Laurson, F. M. Maggi, M. Montali, I. Teinmaa, **Semantics and Analysis of DMN Decision Tables**, 14th International Conference on Business Process Management (BPM 2016), Rio de Janeiro, Brazil. **(BEST PAPER AWARD)**
62. F. M. Maggi, M. Montali, C. Di Ciccio, J. Mendling, **Semantical Vacuity Detection in Declarative Process Mining**, 14th International Conference on Business Process Management (BPM 2016), Rio de Janeiro, Brazil. **(BEST PAPER SHORTLIST)**
63. I. Teinmaa, M. Dumas, F. M. Maggi, C. Di Francescomarino, **Predictive Business Process Monitoring with Structured and Unstructured Data**, 14th International Conference on Business Process Management (BPM 2016), Rio de Janeiro, Brazil.
64. Ü. Laurson, F. M. Maggi, **A Tool for the Analysis of DMN Decision Tables**, Proceedings of the Demo Track of the 14th International Conference on Business Process Management 2016, Rio de Janeiro, Brazil.
65. G. De Giacomo, F. M. Maggi, A. Marrella, S. Sardiña, **Computing Trace Alignment against Declarative Process Models through Planning**, 26th International Conference on Automated Planning and Scheduling (ICAPS 2016), London, UK.
66. C. Di Francescomarino, M. Dumas, M. Federici, C. Ghidini, F. M. Maggi, W. Rizzi, **Predictive Business Process Monitoring Framework with Hyperparameter Optimization**, 28th International Conference on Advanced Information Systems Engineering (CAiSE 2016), Ljubljana, Slovenia. **(DISTINGUISHED PAPER)**
67. H. Nguyen, M. Dumas, A. H. M. ter Hofstede, M. La Rosa, F. M. Maggi, **Business Process Performance Mining with Staged Process Flows**, 28th International Conference on Advanced Information Systems Engineering (CAiSE 2016), Ljubljana, Slovenia.
68. I. Verenich, M. Dumas, M. La Rosa, F. M. Maggi, C. Di Francescomarino, **Minimizing Overprocessing Waste in Business Processes via Predictive Activity Ordering**, 28th International Conference on Advanced Information Systems Engineering (CAiSE 2016), Ljubljana, Slovenia.
69. M. L. Bernardi, M. Cimitile, F. M. Maggi, **Automated development of constraint-driven web applications**, 31st Annual ACM Symposium on Applied Computing, (SAC 2016), Pisa, Italy.

70. M. Federici, W. Rizzi, C. Di Francescomarino, M. Dumas, C. Ghidini, F. M. Maggi, I. Teinemaa, **A ProM Operational Support Provider for Predictive Monitoring of Business Processes**, Proceedings of the Demo Track of the 13th Conference on Business Process Management, Innsbruck, Austria.
71. Ilya Verenich, Marlon Dumas, Marcello La Rosa, Fabrizio Maria Maggi, Chiara Di Francescomarino, **Complex Symbolic Sequence Clustering and Multiple Classifiers for Predictive Process Monitoring**, 11th International Workshop on Business Process Intelligence (BPI 2015), Innsbruck, Austria.
72. C. Di Ciccio, F. M. Maggi, M. Montali, J. Mendling, **Ensuring Model Consistency in Declarative Process Discovery**, 13th International Conference on Business Process Management (BPM 2015), Innsbruck, Austria. **(BEST PAPER AWARD)**
73. A. Leontjeva, R. Conforti, C. Di Francescomarino, M. Dumas, F. M. Maggi, **Complex Symbolic Sequence Encodings for Predictive Monitoring of Business Processes**, 13th International Conference on Business Process Management (BPM 2015), Innsbruck, Austria.
74. A. Jalali, F. M. Maggi, H. A. Reijers, **Enhancing Aspect-Oriented Business Process Modeling with Declarative Rules**, 34th International Conference on Conceptual Modeling (ER 2015), Stockholm, Sweden.
75. C. Di Ciccio, M. L. Bernardi, M. Cimitile, F. M. Maggi, **Generating Event Logs Through the Simulation of Declare Models**, 11th International Workshop on Enterprise and Organizational Modeling and Simulation (EOMAS@CAiSE 2015), Stockholm, Sweden.
76. G. De Giacomo, M. Dumas, F. M. Maggi, M. Montali, **Declarative Process Modeling in BPMN**, 27th International Conference on Advanced Information Systems Engineering (CAiSE 2015), Stockholm, Sweden.
77. M. Rim, C. Di Ciccio, F. M. Maggi, M. Mecella, J. Mendling, **Log-Based Understanding of Business Processes through Temporal Logic Query Checking**, 22nd International Conference on Cooperative Information Systems 2014 (CoopIS 2014), Calabria, Italy.
78. H. Nguyen, M. Dumas, M. La Rosa, F. M. Maggi, S. Suriadi, **Mining Business Process Deviance: A Quest for Accuracy**, 22nd International Conference on Cooperative Information Systems (CoopIS 2014), Calabria, Italy.
79. F. M. Maggi, C. Di Francescomarino, M. Dumas, C. Ghidini, **Predictive Monitoring of Business Processes**, 26th International Conference on Advanced Information Systems Engineering (CAiSE 2014), Thessaloniki, Greece.
80. F. M. Maggi, T. Slaats, H. A. Reijers, **The Automated Discovery of Hybrid Processes**, 12th International Conference on Business Process Management (BPM 2014), Eindhoven, The Netherlands.
81. C. Di Ciccio, F. M. Maggi, J. Mendling, **Discovering Target-Branched Declare Constraints**, 12th International Conference on Business Process Management (BPM 2014), Eindhoven, The Netherlands. **(BEST PAPER SHORTLIST)**
82. G. De Giacomo, R. De Masellis, M. Grasso, F. M. Maggi, M. Montali, **Monitoring Business Metaconstraints Based on LTL and LDL for Finite Traces**, 12th

International Conference on Business Process Management (BPM 2014), Eindhoven, The Netherlands.

83. A. Burattin, M. Cimitile, F. M. Maggi, **Lights, Camera, Action! Business Process Movies for Online Process Discovery**, 3rd International Workshop on Theory and Applications of Process Visualization (TAProViz 2014), Eindhoven, The Netherlands.
84. R. De Masellis, F. M. Maggi, M. Montali, **Monitoring Data-Aware Business Constraints with Finite State Automata**, 2014 International Conference on Software and Systems Process (ICSSP 2014), Nanjing, China.
85. M. L. Bernardi, M. Cimitile, C. Di Francescomarino, F. M. Maggi, **Using Discriminative Rule Mining to Discover Declarative Process Models with Non-atomic Activities**, Rules on the Web. From Theory to Applications - 8th International Symposium (RuleML 2014), Prague, Czech Republic. (**RUNNER-UP BEST PAPER AWARD**)
86. M. L. Bernardi, M. Cimitile, F. M. Maggi, **Discovering Cross-Organizational Business Rules from the Cloud**, 2014 IEEE Symposium on Computational Intelligence and Data Mining (CIDM 2014), Orlando, Florida.
87. F. M. Maggi, **Discovering Metric Temporal Business Constraints from Event Logs**, 13th International Conference on Perspective in Business Informatics Research (BIR 2014), Lund, Sweden.
88. N. C. Narendra, A. Norta, M. Mahannah, F. M. Maggi, **Modelling Sound Conflict Management for Virtual-Enterprise Collaboration**, 11th IEEE International Conference on Services Computing (SCC 2014), Anchorage, Alaska.
89. F. M. Maggi, M. Dumas, L. García-Bañuelos, M. Montali, **Discovering Data-Aware Declarative Process Models from Event Logs**, 11th International Conference on Business Process Management (BPM 2013), Beijing, China.
90. J. C. Bose, F. M. Maggi, W. M. P. van der Aalst, **Enhancing Declare Maps Based on Event Correlations**, 11th International Conference on Business Process Management (BPM 2013), Beijing, China.
91. F. M. Maggi, J. C. Bose, W. M. P. van der Aalst, **A Knowledge-Based Integrated Approach for Discovering and Repairing Declare Maps**, 25th International Conference on Advanced Information Systems Engineering (CAiSE 2013), Valencia, Spain.
92. M. Montali, F. Chesani, F. M. Maggi, P. Mello, **Towards Data-Aware Constraints in Declare**, 28th Symposium On Applied Computing (SAC 2013), Coimbra, Portugal.
93. R. Kocielnik, F. M. Maggi, N. Sidorova, M. Ouwerkerk, J. H.D.M. Westerink, **Smart Technologies for Long-Term Stress Monitoring at Work**, 26th IEEE International Symposium on Computer-Based Medical Systems (CBMS 2013), Porto, Portugal.
94. L. T. Ly, F. M. Maggi, M. Montali, S. Rinderle-Ma, W. M. P. Van der Aalst, **A Framework for the Systematic Comparison and Evaluation of Compliance Monitoring Approaches**, 17th International EDOC Conference (EDOC 2013), Vancouver, Canada. (**BEST PAPER SHORTLIST**)

95. F. M. Maggi, A. Burattin, M. Cimitile, A. Sperduti, **Online Process Discovery to Detect Concept Drifts in LTL-Based Declarative Process Models**, 21st International Conference on Cooperative Information Systems (CoopIS 2013), Graz, Austria.
96. F. M. Maggi, **Declarative Process Mining with the Declare Component of ProM**, Proceedings of the Demo Track of the 11th Conference on Business Process Management 2013, Beijing, China.
97. M. L. Bernardi, M. Cimitile, F. M. Maggi, **Process Lines for Automatic Workflow Development**, 8th International Conference on Software and Data Technologies (ICSOFT 2013), Reykjavik, Iceland.
98. R. Kocielnik, F. M. Maggi, N. Sidorova, **Enabling Self-Reflection with LifelogExplorer: Generating Simple Views from Complex Data**, 7th International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health 2013), Venice, Italy.
99. M. L. Bernardi, M. Cimitile, G. Di Lucca, F. M. Maggi, **M3D: A Tool for the Model Driven Development of Web Applications**, 12th International Workshop on Web Information and Data Management (WIDM 2012), Manui, Hawaii.
100. M. Westergaard, F. M. Maggi, **Looking Into the Future. Using Timed Automata to Provide A Priori Advice about Timed Declarative Process Models**, 20th International Conference on Cooperative Information Systems (CoopIS 2012), Roma, Italy. (**BEST PAPER SHORTLIST**)
101. D. Schunselaar, F. M. Maggi, N. Sidorova, W. M. P. Van der Aalst, **Configurable Declare: Designing Customisable Flexible Process Models**, 20th International Conference on Cooperative Information Systems (CoopIS 2012), Roma, Italy.
102. M. L. Bernardi, M. Cimitile, G. Di Lucca, F. M. Maggi, **Development of Flexible Process-Centric Web Applications: An Integrated Model Driven Approach**, 14th IEEE International Symposium on Web Systems Evolution (WSE 2012), Riva del Garda (Trento), Italy.
103. M. L. Bernardi, M. Cimitile, G. Di Lucca, F. M. Maggi, **Using Declarative Workflow Languages to Develop Process-Centric Web Applications**, 5th International Workshop on Evolutionary Business Processes (EVL-BP 2012), Beijing, China.
104. A. Burattin, F. M. Maggi, W. M. P. Van der Aalst, A. Sperduti, **Techniques for A Posteriori Analysis of Declarative Processes**, 16th International EDOC Conference (EDOC 2012), Beijing, China.
105. M. L. Bernardi, M. Cimitile, F. M. Maggi, **Model Driven Development of Process-Centric Web Applications**, 7th International Conference on Software and Data Technologies (ICSOFT 2012), Rome, Italy.
106. M. de Leoni, F. M. Maggi, W. M. P. van der Aalst, **Aligning Event Logs and Declarative Process Models for Conformance Checking**, 10th International Conference on Business Process Management (BPM 2012), Tallinn, Estonia. (**BEST PAPER SHORTLIST**)

107. D. Schunselaar, F. M. Maggi, N. Sidorova, **Pattern for a Log-Based Strengthening of Declarative Compliance Models**, 9th International Conference on Integrated Formal Methods (iFM 2012), Pisa, Italy.
108. F. M. Maggi, J. C. Bose, W. M. P. van der Aalst, **Efficient Discovery of Understandable Declarative Process Models from Event Logs**, 24th International Conference on Advanced Information Systems Engineering (CAiSE 2012), Gdansk, Poland.
109. F. M. Maggi, M. Montali, W. M. P. van der Aalst, **An Operational Decision Support Framework for Monitoring Business Constraints**, 15th International Conference on Fundamental Approaches to Software Engineering (FASE 2012), Tallinn, Estonia.
110. F. M. Maggi, M. Westergaard, M. Montali, W. M. P. van der Aalst, **Runtime Verification of LTL-Based Declarative Process Models**, 2nd International Conference on Runtime Verification (RV 2011), San Francisco, United States.
111. F. M. Maggi, M. Montali, M. Westergaard, W. M. P. van der Aalst, **Monitoring Business Constraints with Linear Temporal Logic: An Approach Based on Colored Automata**, 9th International Conference on Business Process Management (BPM 2011), Clermont-Ferrand, France.
112. W. M. P. van der Aalst et al., **Process Mining Manifesto**, 7th International Workshop on Business Process Intelligence (BPI 2011), Clermont-Ferrand, France.
113. M. Westergaard, F. M. Maggi, **Declare: A Tool Suite for Declarative Workflow Modeling and Enactment**, Proceedings of the Demo Track of the 9th Conference on Business Process Management 2011, Clermont-Ferrand, France.
114. M. Westergaard, F. M. Maggi, **Modelling and Verification of a Protocol for Operational Support using Coloured Petri Nets**, 32nd International Conference on Application and Theory of Petri Nets and Concurrency (PETRI NETS 2011), Kanazawa, Japan. **(BEST PAPER SHORTLIST)**
115. F. M. Maggi, A. J. Mooij, W. M. P. van der Aalst, **User-Guided Discovery of Declarative Process Models**, 2011 IEEE Symposium on Computational Intelligence and Data Mining (CIDM 2011), Paris, France.
116. F. M. Maggi, D. Corapi, A. Russo, E. Lupu, G. Visaggio, **Revising Process Models through Inductive Learning**, 6th International Workshop on Business Process Intelligence (BPI 2010), Hoboken, New Jersey, United States.
117. N. Boffoli, M. Cimitile, F. M. Maggi, G. Visaggio, **Managing SOA System Variation through Business Process Lines and Process Oriented Development**, 13th International Software Product Line Conference (SPLC 2009), San Francisco, United States.
118. N. Boffoli, M. Cimitile, F. M. Maggi, **Managing Business Process Flexibility and Reuse through Business Process Lines**, 4th International Conference on Software and Data technologies (ICSOF 2009), Sofia, Bulgaria.
119. M. Cimitile, F. M. Maggi, G. Mastelloni, G. Visaggio, **Tacit Suggestions Extraction Process for Consumer-Oriented Services**, 3rd IEEE International Conference on Digital Society (ICDS 2009), Cancun, Mexico.

120. N. Boffoli, D. Caivano, D. Castelluccia, F. M. Maggi, G. Visaggio, **Business Process Lines for SOA Development through the Software Product Lines Paradigm**, 12th International Software Product Line Conference (SPLC 2008), Limerik, Ireland.
121. N. Boffoli, D. Castelluccia, F. M. Maggi, R. Rutilo, **Business Process Modelling Aware of Environmental Changes: a Pattern-Driven Approach**, 3rd International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE 2008), Madeira, Portugal.
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