Curriculum Vitae

Associate Prof. Fabrizio Maria Maggi
December 2023

CONTENTS

Personal Details

Full Name and Title:	Associate Prof. Fabrizio Maria Maggi
Email:	maggi@inf.unibz.it
Current Appointment:	Associate Professor, Faculty of Engineering, Free University of Bozen-Bolzano, Italy

Language Competence

Italian (first language), English (C1), German (B2), Spanish (B1), French (A2)

Research Indicators

Google Scholar Metrics overview:
Citations: 10182- h-index: 53 - i10-index: 135

- ***According to a recent study, I am among the top 15 worldwide recognized researchers in process mining (https://www.sciencedirect.com/science/article/pii/S0957417422011083)***

- ***According to a recent study on standardized and normalized citation metrics, I belong to the top 2% most cited computer scientists worldwide (https://dx.plos.org/10.1371/journal.pbio.3000918).***

Employment History

March 2020 – present

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

Research:
- 34 conference (full) papers, 12 journal papers
- Invited talk entitled "Declarative Process Mining Meets Industry. The Declare4Py Case" presented at the ML4PM Workshop at ICPM 2023, Rome, Italy
- Keynote entitled "AI meets process mining: A concrete initiative to move from theory to practice" presented at the AAAI-Bridge on AI and BPM (https://ai4bpm.com/).

- Keynote entitled "Rule Mining with RuM", presented at the 9th International Workshop on New Frontiers on Mining Complex Patterns @ ECML-PKDD 2020

Teaching:
- Lecturer for "Information Security" course, Free University of Bozen-Bolzano
- Lecturer for "Management of System Security and Networks" course, Free University of Bozen-Bolzano
- **Responsible of the CyberChallenge.IT 2023 initiative in Bolzano**
- **Responsible of the CyberChallenge.IT 2024 initiative in Bolzano**

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, 34 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
- Lecturer for "Business Process Management" course, University of Tartu, Estonia
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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/Qualifications

November 2020

National Scientific Qualification for the Full Professor position in Computer Science 01/B1.

November 2020

National Scientific Qualification for the Full Professor position in Information Processing Systems 09/H1.

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: "Run-time 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"

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/

I am one of the developers of RuM, a java application for declarative process mining:

> http://rulemining.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 have been lecturing the "Systems Modelling" course. This course was part of the Software Engineering curriculum and provides skills in UML modelling, Petri nets and State Charts. I have also lectured the "Business Process Management" course. This course included 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 was focused on how to do a literature review and how to plan an experimentation.

At the Free University of Bozen-Bolzano I am lecturing information security courses to Bachelor students in the computer science and business informatics curricula. I have organized and coordinated the CyberChallenge.IT 2023 initiative in Bolzano. I am currently organizing and coordinating the CyberChallenge.IT 2024 initiative.

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

Committee Memberships

2022	Committee member of cycle 33th of "Dottorato in Ingegneria Informatica" (La Sapienza)
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

2020-Present	Supervision of the PhD project of Anti Alman
2019-2023	Supervision of the PhD project of Williams Rizzi
2017-2022	Supervision of the PhD project of Volodymyr Leno
2014-2019	Supervision of the PhD project of Ilya Verenich
2014-2019	Supervision of the PhD project of Irene Teinemaa

Bachelor's and Master's thesis Supervision

2021- 2022	Supervision of 1 Master's project (Timothy Iyanuoluwa Fadayini)
	Supervision of 5 Bachelor's projects (Martina Burlando, Tedi Ibershimi, Axel Mezini, Manpreet Singh)
2020- 2021	Supervision of 2 Master's projects (Lekso Migriauli, Sabuhi Yusifov)
	Supervision of 2 Bachelor's projects (Kaspar Kadalipp, Marcus Murumäe)
2019- 2020	Supervision of 6 Master's projects (Anti Alman, Karl-Kristjan Kokk, Musabir Musabayli, Aladdin Shikhizada, Fodio Tureta)
	Supervision of 1 Bachelor's projects (Karl Johannes Balder)
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

Bachelor's and Master's Courses

2023-2024	Coordinator and Responsible for 3rd year course on "Information Security"
	Coordinator and Responsible for 2nd year "Management of System Security and Networks"
2022-2023	Coordinator and Responsible for 3rd year course on "Information Security"
	Coordinator and Responsible for 2nd year "Management of System Security and Networks"

2021-2022	Coordinator and Responsible for 3rd year course on "Information Security"
	Coordinator and Responsible for 2nd year "Management of System Security and Networks"
2020-2021	Coordinator and Responsible for 3rd year course on "Information Security"
	Coordinator and Responsible for 2nd year "Management of System Security and Networks"
2019-2020	Coordinator and Responsible for 4th year course on "Systems Modelling"
	Coordinator and Responsible for 5th year "Seminar on Enterprise Software"
2018-2019	Coordinator and Responsible for 4th year course on "Systems Modelling"
	Lecturer for 4th year course on "Business Process Management"
	Coordinator and Responsible for 5th year "Seminar on Enterprise Software"
2017-2018	Coordinator and Responsible for 4th year course on "Systems Modelling"
	Lecturer for 4th year course on "Business Process Management"
	Coordinator and Responsible for 5th year "Seminar on Enterprise Software"
2016-2017	Coordinator and Responsible for 4th year course on "Systems Modelling"
	Lecturer for 4th year course on "Business Process Management"
2015-2016	Coordinator and Responsible for 4th year course on "Systems Modelling"
	Lecturer for 4th year course on "Business Process Management"
2014-2015	Coordinator and Responsible for 4th year course on "Systems Modelling"
	Lecturer for 4th year course on "Business Process Management"
2013-2014	Coordinator and Responsible for 4th year course on "Systems Modelling"
	Lecturer for 4th year course on "Business Process Management"
2012-2013	Lecturer for 4th year course on "Business Process Management"

Tutorial Assistance

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

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

- **2023:** Responsible of the CyberChallenge.IT 2023 initiative in Bolzano

- **2020 – present:** Member of the Faculty Council and PhD Council, Faculty of Computer Science, free University of Bozen-Bolzano

- **September 2018 – December 2019:** Erasmus Coordinator, Institute of Computer Science, University of Tartu, Estonia.

- **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.

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 was 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. In 2016, I started working on the definition of semantics and analysis techniques of DMN Decision Tables.

At the Free University of Bozen-Bolzano I am investigating the same research lines I have started to investigate in Tartu by consolidating the initial solutions provided in all those directions.

Research Activities in Research Projects

2023 – present

Principal Investigator, Recommender Systems for Sustainable Processes (ReSS-Pro), funded by Fondazione Cariverona.

Development of techniques for Recommender Systems supporting the sustainability of business processes.

2021 – present

Principal Investigator, Prescriptive Support when Monitoring Processes Aware Systems (PRISMA), Faculty of Engineering, Free University of Bozen-Bolzano, Italy.

Development of techniques for Process-Aware Recommender Systems providing recommendations to users during the execution of business processes.

2020 – present

Principal Investigator, Continuous process Auditing Technology (CAT) Start-up fund, Faculty of Engineering, Free University of Bozen-Bolzano, Italy.

Application of process mining techniques to enterprise auditing.

2019 – 2020

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.

2019 – 2020

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.

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 have been member of the program committee of ICPM 2019, the 1st International Conference on Process Mining.
- I have been member of the program committee of the 22nd International Conference on Knowledge Engineering and Knowledge Management (EKAW 2020)
- I have been member of the ECMLPKDD 2020 Guest Editorial Board.
- I have been member of the program committee of BIS 2020, the 23rd International Conference on Business Information Systems.
- I have been member of the program committee of the 2020 International Conference on Software and Systems Process (ICSSP 2020).
- I have been member of the program committee of CAiSE 2020, the 32nd International Conference on Advanced Information Systems Engineering.
- I have been Senior member of the program committee of BPM 2020, the 18th International Conference on Business Process Management.
- I have organized the fourth BPM Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2020).
- I have been guest Editor of the Special Issue "Artificial Intelligence for Business Process Management – 2019" in the Journal on Data Semantics.
- I have been member of the program committee of ICPM 2020, the 2nd International Conference on Process Mining.
- I have been member of the program committee of the 2021 International Conference on Software and Systems Process (ICSSP 2021).
- I have been member of the program committee of CAiSE 2021, the 33rd International Conference on Advanced Information Systems Engineering.
- I have been Senior member of the program committee of BPM 2021, the 19th International Conference on Business Process Management.
- I have organized the fifth BPM Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2021).
- I have been guest Editor of the Special Issue "Artificial Intelligence for Business Process Management – 2020" in the Progress in Artificial Intelligence journal.
- I have been Doctoral Consortium chair of BPM 2021, the 19th International Conference on Business Process Management.
- I have been member of the program committee of ICPM 2021, the 3rd International Conference on Process Mining.
- I have been Doctoral Consortium chair of ICPM 2021, the 3rd International Conference on Process Mining.
- I have been member of the program committee of the 2022 International Conference on Software and Systems Process (ICSSP 2022).
- I have been Senior member of the program committee of BPM 2022, the 20th International Conference on Business Process Management.
- I have organized the sixth BPM Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2022).
- I have been guest Editor of the Special Issue "Artificial Intelligence for Business Process Management – 2021" in the Journal of Intelligent Information Systems.
- I have been member of the program committee of ICPM 2022, the 4th International Conference on Process Mining.
- I have been Demo chair of ICPM 2022, the 4th International Conference on Process Mining.
- I have been General Chair of EDOC 2022, the 26th conference on Enterprise Computing.
- I have been member of the program committee of the 2023 International Conference on Software and Systems Process (ICSSP 2023).

- I have been Senior member of the program committee of BPM 2023, the 21st International Conference on Business Process Management.
- I have organized the seventh BPM Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2023).
- I am member of the program committee of CAiSE 2024, the 36th International Conference on Advanced Information Systems Engineering.
- I am Senior member of the program committee of BPM 2024, the 22nd International Conference on Business Process Management

Invited Talks

October 2023	"Declarative Process Mining Meets Industry. The Declare4Py Case" – ML4PM Workshop at ICPM 2023, Rome, Italy
February 2023	"AI meets declarative process mining: A concrete initiative to move from theory to practice", AAAI 2023 Bridge Program on Artificial Intelligence and Business Process Management. Washington DC, USA
September 2020	"Rule Mining with RuM", keynote at 9th International Workshop on New Frontiers on Mining Complex Patterns @ ECML-PKDD 2020
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
November 2013	"Declarative process mining w/ ProM", Dagstuhl Seminar "Unleashing Operational Process Mining", Germany
November 2013	"Process discovery: Playing with the representational bias", Dagstuhl Seminar "Unleashing Operational Process Mining", Germany
November 2013	"Monitoring Business Constraints with the Event Calculus", Dagstuhl Seminar "Unleashing Operational Process Mining", Germany
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", "4th National Workshop GIIS", Como, Italy

PUBLICATIONS

Referred Journal Publications

1. F. M. Maggi, A. Marrella, F. Patrizi, Vasyl Skydanienko, **Data-Aware Declarative Process Mining with SAT**, ACM Transactions on Intelligent Systems and Technology, 2023.

2. A. Alman, F. M. Maggi, M. Montali, F. Patrizi, A. Rivkin: **A framework for modeling, executing, and monitoring hybrid multi-process specifications with bounded global-local memory**. Inf. Syst. 119: 102271 (2023).

3. A. Alman, F. M. Maggi, M. Montali, F. Patrizi, A. Rivkin, **Monitoring hybrid process specifications with conflict management: An automata-theoretic approach**. Artif. Intell. Medicine 139: 102512 (2023).

4. S. Agostinelli, F. Chiariello, F. M. Maggi, A. Marrella, F. Patrizi, **Process mining meets model learning: Discovering deterministic finite state automata from event logs for business process analysis**. Inf. Syst. 114: 102180 (2023).

5. F. Chesani, C. Di Francescomarino, C. Ghidini, D. Loreti, F. M. Maggi, P. Mello, M. Montali, S. Tessaris, **Process discovery on deviant traces and other stranger things**, IEEE Transactions on Knowledge and Data Engineering, 2023.

6. G. De Giacomo, R. De Masellis, F. M. Maggi, M. Montali, **Monitoring Constraints and Metaconstraints with Temporal Logics on Finite Traces**, ACM Transactions on Software Engineering and Methodology, 2022 .

7. A. Alman, F. M. Maggi, M. Montali, R. Peñaloza, **Probabilistic declarative process mining**. Inf. Syst. 109: 102033 (2022).

8. V. Leno, A. Augusto, M. Dumas M. La Rosa, F. M. Maggi, A. Polyvyanyy, **Discovering Executable Routine Specifications from User Interaction Logs**, Information Systems, 2022.

9. A. Cecconi, G. De Giacomo, C. Di Ciccio, F. M. Maggi, J. Mendling, **Measuring the Interestingness of Temporal Logic Behavioral Specifications in Process Mining**, Information Systems, 2022.

10. G. De Giacomo, R. De Masellis, F. M. Maggi, M. Montali, **Monitoring Constraints and Metaconstraints with Temporal Logics on Finite Traces**, ACM Transactions on Software Engineering and Methodology, 2022.

11. M. L. Bernardi, M. Cimitile, F. M. Maggi, **Data-Aware Process Discovery for Malware Detection: An Empirical Study**, Machine Learning, 2022.

12. W. Rizzi, C. Di Francescomarino, C. Ghidini, F. M. Maggi, **How do I update my model? On the resilience of Predictive Process Monitoring models to change**, Knowledge Information Systems, 2022.

13. J. Kim, M. Comuzzi, M. Dumas, F. M. Maggi, I. Teinemaa, **Encoding resource experience for predictive process monitoring**, Decision Support Systems, 2022.

14. S. A. Fahrenkrog-Petersen, N. Tax, I. Teinemaa, M. Dumas, M. de Leoni, F. M. Maggi, M. Weidlich, **Fire now, fire later: alarm-based systems for prescriptive process monitoring**, Knowledge Information Systems, 2022.

15. V. Leno, A. Polyvyanyy, M. Dumas, M. La Rosa, F. M. Maggi, **Robotic Process Mining: Vision and Challenges**, Business Information Systems Engineering, 2021.

16. G. Adamo, C. Di Francescomarino, C. Ghidini, F. M. Maggi, **Beyond arrows in process models: A user study on activity dependences and their rationales**, Information Systems, 2021.

17. F. Taymouri, M. La Rosa, M. Dumas, F. M. Maggi, **Business process variant analysis: Survey and classification**. Knowledge Based Systems 211: 106557, 2021.

18. 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.

19. 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.

20. I. Verenich, M. Dumas, M. La Rosa, F. M. Maggi, I. Teinemaa, **Survey and Cross-benchmark Comparison of Remaining Time Prediction Methods in Business Process Monitoring**, ACM Transactions on Intelligent Systems and Technology, 2019.

21. I. Teinemaa, M. Dumas, M. La Rosa, F. M. Maggi, **Outcome-Oriented Predictive Process Monitoring: Review and Benchmark**, ACM Transactions on Knowledge Discovery from Data, 2019.

22. 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.

23. 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.

24. 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.

25. I. Teinemaa, M. Dumas, A. Leontjeva, F. M. Maggi, **Temporal Stability in Predictive Process Monitoring**, Data Mining and Knowledge Discovery, 2018.

26. 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.

27. C. Di Ciccio, F. M. Maggi, M. Montali, J. Mendling, **On the Relevance of a Business Constraint to an Event Log**, Information Systems, 2018.

28. D. Calvanese, M. Dumas, Ü. Laurson, F. M. Maggi, M. Montali, I. Teinemaa, **Semantics, Analysis and Simplification of DMN Decision Tables**, Information Systems, 2018.

29. F. M. Maggi, C. Di Ciccio, C. Di Francescomarino, T. Kala, **Parallel algorithms for the automated discovery of declarative process models**, Information Systems, 2018.

30. A. Jalali, F. M. Maggi, H. Reijers, **A Hybrid Approach for Aspect-Oriented Business Process Modeling**, Journal of Software: Evolution and Process 2017

31. C. Di Francescomarino, M. Dumas, F. M. Maggi, I. Teinemaa, **Clustering-Based Predictive Process Monitoring**, IEEE Transactions on Service Computing, 2017.

32. C. Di Ciccio, F. M. Maggi, M. Montali, J. Mendling, **Resolving inconsistencies and redundancies in declarative process models**, Information Systems, 2017.

33. A. Burattin, F. M. Maggi, A. Sperduti, **Conformance Checking Based on Multi-Perspective Declarative Process Models**, Expert Systems with Applications, 2016.

34. 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.

35. 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.

36. F. M. Maggi, M. Westergaard, **Designing Software for Operational Decision Support through Coloured Petri nets**, Enterprise Information Systems, 2015.

37. C. Di Ciccio, F. M. Maggi, J. Mendling, **Efficient Discovery of Target-Branched Declare Constraints**, Information Systems, 2015.

38. A. Burattin, M. Cimitile, F. M. Maggi, A. Sperduti, **Online Discovery of Declarative Process Models from Event Streams**, IEEE Transactions on Service Computing, 2015.

39. M. Rovani, F. M. Maggi, M. de Leoni, W. M. P. van der Aalst, **Declarative process mining in healthcare**, Expert Systems with Applications, 2015.

40. 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.

41. 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.

42. 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.

43. 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, 2013.

44. 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

45. Alessandro Gianola, Jonghyeon Ko, Fabrizio Maria Maggi, Marco Montali, Sarah Winkler, **Approximating Multi-perspective Trace Alignment Using Trace Encodings**, BPM 2023: 74-91

46. Francesco Chiariello, Fabrizio Maria Maggi, Fabio Patrizi, **From LTL on Process Traces to Finite-state Automata**, BPM (Demos / Resources Forum) 2023: 127-131

47. Francesco Riva, Dario Benvenuti, Fabrizio Maria Maggi, Andrea Marrella, Marco Montali, **An SQL-Based Declarative Process Mining Framework for Analyzing Process Data Stored in Relational Databases**, BPM (Forum) 2023: 214-231

48. Ana Rocío Cárdenas Maita, Marcelo Fantinato, Sarajane Marques Peres, Fabrizio Maria Maggi, **Towards a Business-Oriented Approach to Visualization-Supported Interpretability of Prediction Results in Process Mining**, ICEIS (1) 2023: 395-406

49. Jonghyeon Ko, Fabrizio Maria Maggi, Marco Montali, Rafael Peñaloza, Ramon Fraga Pereira, **Plan Recognition as Probabilistic Trace Alignment**, ICPM 2023: 33-40

50. Sander J. J. Leemans, Fabrizio Maria Maggi, Marco Montali, **Finite-Trace Analysis of Stochastic Systems with Silent Transitions (Extended Abstract)**, IJCAI 2023: 6452-6457

51. A. Buliga, C. Di Francescomarino, C. Ghidini, F. M. Maggi, **Counterfactuals and Ways to Build Them: Evaluating Approaches in Predictive Process Monitoring**. CAiSE 2023: 558-574.

52. A. Alman, I. Donadello, F. M. Maggi, M. Montali: **Declarative Process Mining for Software Processes: The RuM Toolkit and the Declare4Py Python Library**. PROFES (2) 2023: 13-19.

53. A. R. Cárdenas Maita, M. Fantinato, S. Marques Peres, F. M. Maggi, **Towards a Business-Oriented Approach to Visualization-Supported Interpretability of Prediction Results in Process Mining**. ICEIS (1) 2023: 395-406

54. S. J. J. Leemans, F. M. Maggi, M. Montali, **Reasoning on Labelled Petri Nets and Their Dynamics in a Stochastic Setting**, BPM 2022: 324-342 **(BEST PAPER AWARD)**

55. I. Donadello, F. Riva, F. M. Maggi, A. Shikhizada, **Declare4Py: A Python Library for Declarative Process Mining**, BPM (PhD/Demos) 2022: 117-121

56. C. Di Francescomarino, I. Donadello, C. Ghidini, F. M. Maggi, W. Rizzi, **Making sense of temporal data: the DECLARE encoding**, PMAI@IJCAI 2022: 77-80

57. F. Chesani, C. Di Francescomarino, C. Ghidini, G. Grundler, D. Loreti, F. M. Maggi, P. Mello, M. Montali, S. Tessaris, **Optimising Business Process Discovery Using Answer Set Programming**, LPNMR 2022: 498-504

58. F. Chiariello, F. M. Maggi, F. Patrizi, **Declarative Process Mining with ASP**, 36th AAAI Conference on Artificial Intelligence (AAAI 2022).

59. A. Alman, F. M. Maggi, M. Montali, F. Patrizi, A. Rivkin, **Multi-model Monitoring Framework for Hybrid Process Specifications**, CAiSE 2022: 319-335 **(BEST PAPER SHORTLIST)**

60. F. Chesani, C. Di Francescomarino, C. Ghidini, D. Loreti, F. M. Maggi, P. Mello, M. Montali, E. Palmieri, S. Tessaris, **Discovering Business Processes models expressed as DNF or CNF formulae of Declare constraints**, CILC 2022: 201-216

61. F. Chesani, C. Di Francescomarino, C. Ghidini, G. Grundler, D. Loreti, F. M. Maggi, P. Mello, M. Montali, S. Tessaris, **Shape Your Process: Discovering Declarative Business Processes from Positive and Negative Traces Taking into Account User Preferences**, EDOC 2022: 217-234

62. G. Acitelli, M. Angelini, S. Bonomi, F. M. Maggi, A. Marrella, A. Palma, **Context-Aware Trace Alignment with Automated Planning**, ICPM 2022: 104-111

63. F. Milani, K. Lashkevich, F. M. Maggi, C. Di Francescomarino, **Process Mining: A Guide for Practitioners**. RCIS 2022: 265-282

64. A. Alman, C. Di Ciccio, F. M. Maggi, Marco Montali, H. van der Aa, **RuM: Declarative Process Mining, Distilled**, BPM 2021: 23-29

65. O. López-Pintado, M. Dumas, M. Yerokhin, F. M. Maggi, **Silhouetting the Cost-Time Front: Multi-objective Resource Optimization in Business Processes**, BPM (Forum) 2021: 92-108

66. G. Bergami, F. M. Maggi, A. Marrella, M. Montali, **Aligning Data-Aware Declarative Process Models and Event Logs**, BPM 2021: 235-251

67. G. Bergami, F. M. Maggi, M. Montali, R. Peñaloza, **A Tool for Computing Probabilistic Trace Alignments**, CAiSE Forum 2021: 118-126

68. G. Bergami, F. M. Maggi, M. Montali, R. Peñaloza, **Probabilistic Trace Alignment**, ICPM 2021: 9-16

69. S. Agostinelli, G. Bergami, A. Fiorenza, F. M. Maggi, A. Marrella, F. Patrizi, **Discovering Declarative Process Model Behavior from Event Logs via Model Learning**, ICPM 2021: 48-55 **(BEST PAPER SHORTLIST)**

70. F. M. Maggi, M. Montali, R. Peñaloza, **Temporal Logics Over Finite Traces with Uncertainty**, AAAI 2020: 10218-10225

71. F. M. Maggi, M. Montali, R. Peñaloza, A. Alman, **Extending Temporal Business Constraints with Uncertainty**. BPM 2020: 35-54 **(BEST PAPER SHORTLIST)**

72. H. van der Aa, K. J. Balder, F. M. Maggi, A. Nolte, **Say It in Your Own Words: Defining Declarative Process Models Using Speech Recognition**. BPM (Forum) 2020: 51-67

73. V. Leno, S. Deviatykh, A. Polyvyanyy, M. La Rosa, M. Dumas, F. M. Maggi: **Robidium: Automated Synthesis of Robotic Process Automation Scripts from UI Logs**. BPM (PhD/Demos) 2020: 102-106

74. A. Alman, K. J. Balder, F. M. Maggi, H. van der Aa, **Declo: A Chatbot for User-friendly Specification of Declarative Process Models**, BPM (PhD/Demos) 2020: 122-126

75. W. Rizzi, C. Di Francescomarino, F. M. Maggi, **Explainability in Predictive Process Monitoring: When Understanding Helps Improving**, BPM (Forum) 2020: 141-158

76. F. M. Maggi, M. Montali, R. Peñaloza, **Probabilistic Conformance Checking Based on Declarative Process Models**, CAiSE Forum 2020: 86-99

77. A. Alman, C. Di Ciccio, D. Haas, F. M. Maggi, J. Mendling, **Rule Mining in Action: The RuM Toolkit**, ICPM Doctoral Consortium/Tools 2020: 51-54

78. A. Cecconi, G. De Giacomo, C. Di Ciccio, F. M. Maggi, J. Mendling, **A Temporal Logic-Based Measurement Framework for Process Mining**, ICPM 2020: 113-120 **(BEST PAPER SHORTLIST)**

79. A. Alman, C. Di Ciccio, D. Haas, F. M. Maggi, A. Nolte, **Rule Mining with RuM**, ICPM 2020: 121-128

80. V. Leno, A. Augusto, M. Dumas, M. La Rosa, F. M. Maggi, A. Polyvyanyy, **Identifying Candidate Routines for Robotic Process Automation from Unsegmented UI Logs**, ICPM 2020: 153-160 **(BEST PAPER SHORTLIST)**

81. N. Navarin, M. Cambiaso, A. Burattin, F. M. Maggi, L. Oneto, A. Sperduti, **Towards Online Discovery of Data-Aware Declarative Process Models from Event Streams**, IJCNN 2020: 1-8

82. F. M. Maggi, M. Montali, R. Peñaloza, **Temporal Logics Over Finite Traces with Uncertainty**, 34th AAAI Conference on Artificial Intelligence (AAAI 2020).

83. 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)**

84. 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.

85. 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.

86. S. Agostinelli, F. M. Maggi, A. Marrella, F. Sapio, **Achieving GDPR Compliance of BPMN Process Models**, CAiSE (Forum) 2019, Rome, Italy.

87. 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.

88. 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.

89. S. Agostinelli, F. M. Maggi, A. Marrella, M. Mecella, **Verifying Petri Net-Based Process Models using Automated Planning**, EDOC Workshops 2019, Paris, France.

90. 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.

91. F. M. Maggi, M. Montali, U. Bhat, **Compliance Monitoring of Multi-Perspective Declarative Process Models**, 23rd International EDOC Conference (EDOC 2019), Paris, France.

92. 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.

93. S. Coltellese, 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.

94. 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.

95. 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.

96. 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.

97. I. Teinemaa, N. Tax, M. de Leoni, M. Dumas and F. M. Maggi, **Alarm-Based Prescriptive Process Monitoring**, BPM (Forum) 2018, Sydney, Australia.

98. 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.

99. 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)**

100. 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.

101. 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.

102. 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.

103. 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.

104. 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.

105. 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)**

106. 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)**

107. 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.

108. 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)**

109. 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.

110. 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.

111. 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.

112. 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.

113. 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.

114. 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)**

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