








Curriculum Vitae et Studiorum

Personal Data

<b>Name</b>	Claudio Di Ciccio	
<b>Citizenship</b>	Italian	
<b>Address</b>	 <b>Personal</b>	 <b>Work</b>
		Sapienza University of Rome Department of Computer Science Viale Regina Elena 295, 00161 Rome, Italy
<b>Telephone</b>		 +39 06 4991 8465
<b>Website</b>	 <a href="http://diciccio.net">diciccio.net</a>	 <a href="http://di.uniroma1.it/en/docenti/di-ciccio-claudio">di.uniroma1.it/en/docenti/di-ciccio-claudio</a>
<b>E-mail</b>	 <a href="mailto:claudio@diciccio.net">claudio@diciccio.net</a>	 <a href="mailto:claudio.diciccio@uniroma1.it">claudio.diciccio@uniroma1.it</a>

Education

2009–2013	<b>Ph.D. in Computer Science and Engineering</b> at Sapienza, University of Rome, Italy.	<i>With honourable mention.</i>
2005–2008	<b>Master of Science in Computer Science and Engineering</b> at Sapienza, University of Rome, Italy.	Avg. exam grade: 28.9/30. Final grade: 110/110 <i>cum laude.</i>
2001–2005	<b>Bachelor of Science in Computer Science and Engineering</b> at Sapienza, University of Rome, Italy.	Avg. exam grade: 29.3/30. Final grade: 110/110 <i>cum laude.</i>

Qualifications

29/04/2021	Italian Scientific <b>Habilitation</b> as <b>Associate Professor of Computer Science</b> (01/B1).
06/05/2019	Italian Scientific <b>Habilitation</b> as <b>Associate Professor of Information Proc. Systems</b> (09/H1).
15/06/2011	Italian <b>Professional Qualification</b> as <b>Information Engineer</b> .

Professional Experience

2019–	<i>Assistant professor</i>	Department of Computer Science, Sapienza University of Rome, Italy.
2015–2019	<i>Assistant professor</i>	Institute for Information Business, Vienna University of Economics and Business (WU Vienna), Austria.
2013–2015	<i>Postdoctoral researcher</i>	Institute for Information Business, WU Vienna, Austria.
2009–2013	<i>Ph.D. candidate</i>	Department of Computer, Control, and Management Engineering, Sapienza University of Rome, Italy.
2009–2012	<i>R&amp;D engineer</i>	EXALTECH S.r.l. (IT and software development company), Latina, Italy.
2008–2009	<i>Research technician</i>	Department of Computer, Control, and Management Engineering, Sapienza University of Rome, Italy.
2005–2008	<i>Student assistant</i>	Department of Computer, Control, and Management Engineering, Sapienza University of Rome, Italy.

Honours and Awards

02/09/2015	Corresponding author of the <b>Best Paper Award</b> winning paper at the <i>13<sup>th</sup> international conference on Business Process Management</i> (BPM 2015,  GGS A) [65].
28/01/2016	Co-author of the <b>Best Presentation Award</b> winning paper at the <i>8<sup>th</sup> Central European Workshop on Services and their Composition</i> (ZEUS 2016) [55].
01/08/2018	<b>Researcher of the Month</b> of the Vienna University of Economics and Business (WU Vienna), Austria. Official video at  <a href="https://www.youtube.com/watch?v=WJcaAw5AuUY">youtube.com/watch?v=WJcaAw5AuUY</a> .
15/04/2019	Co-author of the <b>Best User Paper Award</b> winning paper at the <i>41<sup>st</sup> European Conference on Information Retrieval</i> (ECIR 2019,  GGS A) [33].
2016–2019	Awarded with the annual <b>research performance prizes</b> from the Vienna University of Economics and Business (WU Vienna) in the years 2016 (1), 2017 (1), 2018 (3), and 2019 (3).

## Invited Talks

- 03/03/2021 “*Blockchain and smart contracts: infrastructure and platforms*” at the Cyber 4.0 Seminar hosted by the Cyber 4.0 Cybersecurity Competence Center, Rome, Italy.
- 11/11/2020 “*Mining process rules from email*” at the Automation, Control, and Analysis of Knowledge-intensive Processes Workshop, hosted by the IBM CASCON x EVOKE conference, Toronto, Canada.
- 08/10/2020 “*The Process and the Blockchain: A Story of Miners*” at the WU Vienna, Austria.
- 19/02/2020 “*Towards a Process-oriented Analysis of Blockchain Data*” [23] at the 1st Int. Workshop on Conceptual Modeling for Distributed Ledger Technologies (MOD-DLT), co-located with Modellierung, Vienna, Austria, 19 February 2020.
- 19/07/2019 “*The Process and the Blockchain: A Story of Miners*” at the Sapienza University of Rome, Italy.
- 03/07/2019 “*Tracking Workflows on the Blockchain*” at the “Blockchain: Applications and Security” Cyber Security Summer School 2019, Voore, Estonia.
- 27/05/2019 “*Declarative Specification of Processes: Discovery and Reasoning*” at the Sapienza University of Rome, Italy.
- 15/04/2019 “*Declarative Specification of Processes: Discovery and Reasoning*” at the Utrecht University, The Netherlands.
- 12/04/2019 “*Declarative Specification of Processes: Discovery and Reasoning*” at the Eindhoven University of Technology, The Netherlands.
- 19/12/2018 “*An Introduction to Process Mining*” at the Technical University of Vienna (TU Wien), Austria.
- 13/11/2018 “*How to Execute Business Processes on the Blockchain*” at the Process Management Summit of the Gesellschaft für Prozessmanagement, Vienna, Austria, 13 November 2018.
- 09/11/2018 “*Data Science × Business Process Management = Process Mining*” at the 16<sup>th</sup> PQM Dialog (“Process Mining – Reale Prozesse im Fokus”), FH Kufstein, Austria, 9 November 2018.
- 04/10/2018 “*Declarative Business Processes: Discovery and Reasoning*” at the Seminars of the University of Wollongong, NSW, Australia, 4 October 2018.
- 25/09/2018 “*Declarative Business Processes: Discovery and Reasoning*” at the CIS Seminars of the University of Melbourne, VIC, Australia, 25 September 2018.
- 14/08/2018 “*Tracking Business Processes on the Blockchain*” at Dagstuhl Seminar 18332 (“Blockchain Technology for Collaborative Information Systems”), Schloss Dagstuhl, Germany, 12–17 August 2018.
- 08/02/2018 “*Paradigm-independence of metrics*” at the Brainstorm Seminar Conformance Checking Metrics, Maasmechelen, Belgium, 8 February 2018.
- 14/03/2018 “*Data Science + BPM*” at the Data Science Society Kick-off event, Vienna, Austria, 14 March 2018.
- 17/11/2017 “*The Application of Process Analytics in the field of Smart Logistics: Examples from Airfreight and Road Transportation*” at the University of Edinburgh, United Kingdom.
- 06/03/2017 “*The Application of Process Analytics in the field of Smart Logistics: Examples from Airfreight and Road Transportation*” at CSIRO/Data61, Sydney, Australia.
- 07/12/2016 “*Automated Discovery of Declarative Process Models*” at the Humboldt University of Berlin, Germany.
- 13/09/2016 “*Introduction to Process Mining*” at the Federal University of the State of Rio de Janeiro, Brazil.
- 25/08/2016 “*Predictive task monitoring: Processing flight events to foresee diversions*” at Dagstuhl Seminar 16341 (“Integrating Process-Oriented and Event-Based Systems”), Schloss Dagstuhl, Germany, 21–26 August 2016.
- 22/09/2015 “*The Automated Discovery of Declarative Processes*” at the Workshop on the Presence and Future of Process Mining, Bratislava, Slovak Republic, 22-23 September 2015.
- 15/09/2014 “*Automated Control-Flow Discovery of Declarative Processes*” at the Hasso-Plattner Institute, University of Potsdam, Germany.
- 12/12/2013 “*Automated Control-Flow Discovery of Declarative Process Models*” at the Eindhoven University of Technology, The Netherlands.
- 09/12/2013 “*Flight Diversion Prediction based on Event Data*” at the Eindhoven University of Technology, The Netherlands.

## Presentations at Conferences and Workshops

- 02/09/2019 “*Extracting Event Logs for Process Mining from Data Stored on the Blockchain*” [39] at the 2nd Int. Workshop on Security and Privacy-enhanced Business Process Management (SPBP), co-located with BPM, Vienna, Austria, 2 September 2019.

- 01/07/2018 “*Blockchain-Based Traceability of Inter-organisational Business Processes*” [43] at the 8th Int. Symposium on Business Modeling and Software Design (BMSD 2018), Vienna, Austria, 2-4 July 2018.
- 13/06/2017 “*Resolving Inconsistencies and Redundancies in Declarative Process Models*” [14] at the 8th Int. Workshop on Enterprise Modeling and Information Systems Architectures (EMISA 2017), Essen, Germany, 12-13 June 2017.
- 03/10/2016 “*Detecting Flight Trajectory Anomalies and Predicting Diversions in Freight Transportation*” [15] at the 7th International Workshop on Enterprise Modeling and Information Systems Architectures (EMISA 2016), Vienna, Austria, 3-5 October 2016
- 20/09/2016 “*Semantical Vacuity Detection in Declarative Process Mining*” [57] at the 14th Int. Conference on Business Process Management (BPM 2016), Rio de Janeiro, Brazil, 18-22 September 2016.
- 19/09/2016 “*Model Checking of Mixed-Paradigm Process Models in a Discovery Context - Finding the Fit Between Declarative and Procedural*” [46] at the 12th Int. Workshop on Business Process Intelligence (BPI 2016), Rio de Janeiro, Brazil, 19 September 2016.
- 01/09/2015 “*Ensuring Model Consistency in Declarative Process Discovery*” [65] ★ **Best Paper Award of the 13th Int. Conference on Business Process Management (BPM 2015)**, Innsbruck, Austria, 31 August - 3 September 2015.
- 29/10/2014 “*Log-Based Understanding of Business Processes through Temporal Logic Query Checking*” [72] at the 22nd Int. Conference on Cooperative Information Systems (CoopIS 2014), Amantea, Italy, 27-31 October 2014.
- 10/09/2014 “*Discovering Target-Branched Declare Constraints*” [70] at the 12th Int. Conference on Business Process Management (BPM 2014), Eindhoven, The Netherlands, 7-11 September 2014.
- 08/09/2014 “*Predictive Task Monitoring for Business Processes*” [69] at the 12th Int. Conference on Business Process Management (BPM 2014), Eindhoven, The Netherlands, 7-11 September 2014.
- 30/08/2013 “*Studies on the Discovery of Declarative Control Flows from Error-prone Data*” [74] at the 3rd Int. Symposium on Data-driven Process Discovery and Analysis (SIMPDA 2013), Riva del Garda, Italy, 30 August 2013.
- 17/04/2013 “*A Two-Step Fast Algorithm for the Automated Discovery of Declarative Workflows*” [73] at the IEEE Symposium on Computational Intelligence and Data Mining (CIDM 2013), Singapore, 16-19 April 2013.
- 14/09/2012 “*Goal-based Composition of Stateful Services for Smart Homes*” [76] at the 20th Int. Conference on Cooperative Information Systems (CoopIS 2012), Rome, Italy, 10-14 September 2012.
- 15/06/2012 “*Knowledge-intensive Processes: An Overview of Contemporary Approaches*” [77] at the 1st Int. Workshop on Knowledge-intensive Business Processes (KiBP 2012), Rome, Italy, 15 June 2012.
- 22/05/2012 “*Mining Constraints for Artful Processes*” [78] at the 15th Int. Conference on Business Information Systems (BIS 2012), Vilnius, Lithuania, May 21-23 2012.
- 25/11/2011 “*Representing and Visualizing Mined Artful Processes in MailOfMine*” [80] at the 7th Conference of the Workgroup Human-Computer Interaction and Usability Engineering of the Austrian Computer Society (USAB 2011), Graz, Austria, 25-26 November 2011.
- 30/05/2011 “*MailOfMine – Analyzing Mail Messages for Mining Artful Collaborative Processes*” [82] at the 1st Int. Symposium on Data-Driven Process Discovery and Analysis (SIMPDA 2011), Campione d’Italia, Italy, June 29 - July 1st 2011.
- 24/03/2011 “*Service Composition and Advanced User Interfaces in the Home of Tomorrow: the SM4All Approach*” [79] at the 2nd Int. ICST Conference on Ambient Media and Systems (AMBI-SYS 2011), Porto, Portugal, March 24-25 2011.

## Program Committees and Referrals

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|------|---------------------|--|
| 2022 | <i>PC Chair</i>     | Int. Conference on Business Process Management (BPM, GGS A)  |
| 2021 | <i>PC Chair</i>     | Int. Conference on Process Mining (ICPM) 🌐 <a href="https://icpmconference.org/2021">icpmconference.org/2021</a>   |
| 2021 | <i>Track Chair</i>  | Int. Conference on Business Process Management (BPM, GGS A), Tutorials & Panels Track 🌐 <a href="https://bpm2021.diag.uniroma1.it/call-for-tutorials/">bpm2021.diag.uniroma1.it/call-for-tutorials/</a>                                  |
| 2021 | <i>Guest Editor</i> | Special Issue of the Journal on Data Semantics (📖 SJR Q2) on Process Querying and Declarative, Decision and Hybrid Approaches to Processes 🌐 <a href="https://doi.org/10.1007/s13740-021-00130-1">doi.org/10.1007/s13740-021-00130-1</a> |
| 2020 | <i>Track Chair</i>  | Int. Conference on Business Process Management (BPM, GGS A), Demos & Resources Track 🌐 <a href="https://congreso.us.es/bpm2020/calls/demos">congreso.us.es/bpm2020/calls/demos</a>   |
| 2020 | <i>Track Chair</i>  | Doctoral Consortium of the Int. Conference on Process Mining (ICPM) 🌐 <a href="https://icpmconference.org/2020/doctoral-consortium">icpmconference.org/2020/doctoral-consortium</a>  |

2019	<i>Proceedings Chair</i>	Int. Conference on Business Process Management (BPM, GGS A) <a href="https://bpm2019.ai.wu.ac.at">bpm2019.ai.wu.ac.at</a>
2019	<i>PC Chair</i>	Blockchain Forum at the Int. Conference on Business Process Management (BPM, GGS A) <a href="https://bpm2019.ai.wu.ac.at/call-for-blockchain-forum/">https://bpm2019.ai.wu.ac.at/call-for-blockchain-forum/</a>
2018–	<i>Organiser</i>	Int. Workshop on Process Querying (PQ), co-located with the Int. Conference on Business Process Management (BPM, GGS A) <a href="https://processquerying.com/pq2019">processquerying.com/pq2019</a>
2016–	<i>Organiser</i>	Int. Workshop on Declarative, Decision, and Hybrid approaches to processes (DEC2H), co-located with the Int. Conference on Business Process Management (BPM, GGS A) <a href="https://dec2h-2020.di.uniroma1.it">dec2h-2020.di.uniroma1.it</a>
2015–2016	<i>Organiser</i>	Int. Workshop on the Role of Real-World Objects in Business Process Management Systems (RW-BPMS), co-located with the Int. Conference on Advanced Information Systems Engineering (CAiSE 2105, GGS A) and the IEEE International Enterprise Distributed Object Computing Conference (EDOC, GGS B), <a href="https://ai.wu.ac.at/rw-bpms2016">ai.wu.ac.at/rw-bpms2016</a>
<i>PC member</i>	<i>Conferences</i>	<ul style="list-style-type: none"> <li>• Int. Conference on Business Process Management (BPM, GGS A) 2018, 2019, 2020, 2021</li> <li>• Int. Joint Conference on Artificial Intelligence (IJCAI, GGS A++) 2015, 2021</li> <li>• Int. Conference on Advanced Information Systems Engineering (CAiSE, GGS A) 2019, 2020, 2021</li> <li>• Int. Enterprise Computing Conference (EDOC, GGS B) 2020, 2021</li> <li>• Int. Conference on Process Mining (ICPM) 2019, 2020</li> <li>• Int. Working Conference on Business Process Modeling, Development, and Support (BPMS) 2020, 2021</li> <li>• Int. Conference on Software and System Processes (ICSSP) 2017, 2018, 2019, 2020, 2021</li> <li>• Int. Conference of the Italian Association for Artificial Intelligence (AI*IA) 2018, 2019, 2020, 2021</li> <li>• Wirtschaftsinformatik (WI) 2020, 2021</li> <li>• Int. working conference on Exploring Modeling Methods for Systems Analysis and Development (EMMSAD) 2018, 2019</li> <li>• Int. Conference on Subject-Oriented Business Process Management (S-BPM ONE) 2015, 2016, 2017, 2018</li> <li>• Int. Conference on Business Informatics (CBI) 2016</li> <li>• Int. Conference on Information Quality (ICIQ) 2012</li> </ul>
	<i>Symposia</i>	<ul style="list-style-type: none"> <li>• Blockchain Forum at the Int. Conference on Business Process Management (BPM Blockchain Forum) 2020, 2021</li> <li>• Int. Symposium on Business Modeling and Software Design (BMSD) 2018</li> <li>• Int. Symposium on Data-driven Process Discovery and Analysis (SIMPDA) 2015, 2016, 2017</li> <li>• Special Session on Process Mining at the IEEE Symposium Series on Computational Intelligence (CIDM) 2013, 2014</li> <li>• Special Session on Process Mining at the World Congress on Computational Intelligence (WCCI) 2014</li> </ul>
	<i>Workshops</i>	<ul style="list-style-type: none"> <li>• Int. Workshop on Algorithms &amp; Theories for the Analysis of Event Data (ATAED) 2016, 2017, 2018, 2019, 2020, 2021</li> <li>• Int. Workshop on Business Process Intelligence (BPI) 2017, 2018, 2019, 2020, 2021</li> <li>• Int. Workshop on Artificial Intelligence for Business Process Management (AI4BPM) 2018, 2019, 2020, 2021</li> <li>• Int. Workshop on Process-oriented Data Science for Healthcare (PODS4H) 2020, 2021</li> <li>• Int. Workshop on Academy Meets Industry in Information System Engineering (AMISE) 2020, 2021</li> <li>• Int. Workshop on Blockchain Technologies for Multi-Agent Systems (BCT4MAS) 2019</li> <li>• Int. Workshop on Flexible Advanced Information Systems (FAiSE) 2019</li> <li>• Int. Workshop on Blockchains for Inter-Organizational Collaboration (BIOC) 2019</li> <li>• Int. Workshop on Security and Privacy-enhanced Business Process Management (SPBP) 2019, 2020</li> <li>• Int. Workshop on Business Data Analytics (BDA) 2018</li> <li>• Central-European Workshop on Services and their Composition (ZEUS) 2016, 2017</li> <li>• Int. Workshop on Process Querying (PQ) 2016, 2017</li> <li>• Int. Workshop on Business Process Innovation with Artificial Intelligence (BPAI) 2017</li> <li>• Int. Workshop on Cognitive Business Process Management (CBPM) 2017</li> <li>• Int. Workshop on Resource Management in Business Processes (ReMa) 2016</li> <li>• Int. Workshop on Performance and Conformance of Workflow Engines (PEACE) 2016</li> <li>• Int. Workshop on Resource Management in Service-Oriented Computing (RM-SOC) 2014</li> <li>• Int. Workshop on Artificial Intelligence meets Business Processes and Services (AIBPS) 2014</li> <li>• Int. Workshop on Knowledge-intensive Business Processes (KiBP) 2012, 2013</li> </ul>
	<i>Consortia</i>	<ul style="list-style-type: none"> <li>• Jury of the Demo Track the Int. Conference on Business Process Management (BPM Demos) 2018, 2019, 2020</li> <li>• Jury of the Doctoral Consortium and of the Demo Track of the Int. Conference on Process Mining (ICPM DC, ICPM Demos) 2019, 2020</li> <li>• Jury of the Business Process Intelligence Challenge (BPIC) 2014, 2015, 2016, 2017, 2018, 2019, 2020.</li> </ul>

<i>Reviewer</i>	<i>Journals</i>	<ul style="list-style-type: none"> <li>• Information Systems (📖 SJR Q1) • Decision Support Systems (📖 SJR Q1) • ACM Trans. on Software Engineering and Methodology (TOSEM, 📖 SJR Q1) • IEEE Trans. on Software Engineering (📖 SJR Q1) • ACM Trans. on Internet Technology (TOIT, 📖 SJR Q1) • IEEE Trans. on Services Computing (TSC, 📖 SJR Q1) • Information Sciences (📖 SJR Q1) • Business &amp; Information Systems Engineering (BISE, 📖 SJR Q1) • J. Network and Computer Applications (📖 SJR Q1) • Artificial Intelligence in Medicine (📖 SJR Q1) • Computers in Industry (📖 SJR Q1) • Automation in Construction (📖 SJR Q1) • Software and Systems Modeling (📖 SJR Q2) • Formal Aspects of Computing (📖 SJR Q2) • IEEE Internet Computing (📖 SJR Q2) • Data and Knowledge Engineering (📖 SJR Q2) • Journal of Systems and Software (📖 SJR Q2) • Journal on Data Semantics (📖 SJR Q2) • Service Oriented Computing and Applications (📖 SJR Q2) • International Journal of Cooperative Information Systems (📖 SJR Q3)</li> <li>• Revista de Informática Teórica e Aplicada • Ledger • SN Computer Science • Computing • Transactions on Petri Nets and Other Models of Concurrency • ICST Trans. Ambient Systems.</li> </ul>
<i>Board</i>		<p>Member of the <i>Editorial Review Board</i> of the Special Issue on Conformance Checking of Information Systems (📖 SJR Q1).</p> <p>Member of the <i>Editorial Review Board</i> of the Special Issue on Special Issue on Process Mining at the Enterprise Level of Business &amp; Information Systems Engineering (BISE, 📖 SJR Q1).</p> <p><i>Associate Editor</i> of the Special Issue on Blockchain Technologies in Enterprise Modeling and Enterprise Information Systems of the Enterprise Modelling and Information Systems Architectures journal (EMISAJ).</p>

## Memberships

2019–	Member of the Steering Committee of the IEEE CIS Task Force on Process Mining 🌐 <a href="http://www.tf-pm.org">www.tf-pm.org</a>
2017–2019	Member of the Research Institute for Cryptoeconomics of the Vienna University of Economics and Business (WU Vienna) 🌐 <a href="http://wu.ac.at/cryptoeconomics">wu.ac.at/cryptoeconomics</a>
2015–	Member of the IEEE CIS Task Force on Process Mining 🌐 <a href="http://www.tf-pm.org">www.tf-pm.org</a>
2013–2016	Member of the W3C RDF Stream Processing Community Group 🌐 <a href="http://w3.org/community/rsp">w3.org/community/rsp</a>
2018–	Professional Member of the Association for Computing Machinery (ACM)

## National and International Projects

2019	<i>Research partner</i>	Austrian Research Promotion Agency (FFG) Competence Centers for Excellent Technologies (COMET) “ <i>Austrian Blockchain Center (ABC)</i> ”, Area 2 (Cryptoeconomic Modelling & Blockchain Applications for Business), with WU Vienna, Austria. 🌐 <a href="http://blockchain-center.at">blockchain-center.at</a>
2017–2019	<i>Research staff member</i> <i>Work Package leader</i>	Austrian Research Promotion Agency (FFG) research project “ <i>Cyber-Physical Social Systems for City-wide Infrastructures</i> ” (CitySPIN), grant number 861213, with WU Vienna, Austria. 🌐 <a href="http://cityspin.net">cityspin.net</a> Lead of Work Package 5 (“ <i>Process Mining and Monitoring on Linked Data</i> ”).
2015–2019	<i>Research staff member</i> <i>Work Package leader</i>	EU H2020 Marie Skłodowska-Curie research project “ <i>Propelling Business Process Management by Research and Innovation Staff Exchange</i> ” (RISE_BPM), grant number 645751, with WU Vienna, Austria. 🌐 <a href="http://www.rise-bpm.eu">www.rise-bpm.eu</a> Lead of Work Package 8 (“ <i>Synthesis of IT artifacts: BPM implementation</i> ”).
2018–	<i>Referee</i>	Register of Scientific Experts (REPRISE), Fundamental Research section, set up at the Italian Ministry of Education, University and Research
2018	<i>Referee</i>	The Netherlands’ research council for the Engineering and Applied Sciences (NWO/TTW)
2017	<i>Referee</i>	Italian Research Projects of National Relevance (PRIN)
2017–2018	<i>Research staff member</i>	Austrian Research Promotion Agency (FFG) research project “ <i>Business Process Optimization Toolkit</i> ”, grant number 862950, with WU Vienna, Austria.

2014–2017	<i>Research staff member</i>	Austrian Research Promotion Agency (FFG) research project “ <i>Safety-critical Human- and dAta-centric Process management in Engineering projects</i> ” (SHAPE), grant number 861213, with WU Vienna, Austria. <a href="https://ai.wu.ac.at/shape-project">ai.wu.ac.at/shape-project</a>
2013–2015	<i>Research staff member</i>	EU FP7-ICT research project “ <i>European Wide Service Platform for Green European Transportation</i> ” (GET Service), grant number 318275, with WU Vienna, Austria. <a href="https://cordis.europa.eu/project/id/318275">cordis.europa.eu/project/id/318275</a>
2008–2011	<i>Research staff member</i>	EU FP7-ICT research project “ <i>Smart Homes for All</i> ” (SM4All), grant number 224332, with Sapienza University of Rome, Italy. <a href="https://sm4all-project.eu">sm4all-project.eu</a>
2007–2008	<i>Research assistant</i>	“ <i>Re-engineered Province Bureaus [Uffici Provinciali Reingegnerizzati]</i> ” (UPR), research project funded by the Italian local authorities of Regione Lazio in collaboration with the Province of Latina (SM4All), with Sapienza University of Rome, Italy.
2006–2007	<i>Research technician</i>	EU FP6 “ <i>DELOS Network of Excellence on Digital Libraries</i> ”, with Sapienza University of Rome, Italy. <a href="https://delosw.isti.cnr.it">delosw.isti.cnr.it</a>

## National and International Appointments

04/2020	<i>Lecturer</i>	“ <i>Process Mining</i> ” PhD Course, University of Calabria, Rende, Italy
07/2019	<i>Lecturer</i>	“ <i>Blockchain: Applications and Security</i> ” Cyber Security PhD Summer School 2019, Voore, Estonia
02–06/2019	<i>Academic director</i> <i>Lecturer</i>	“ <i>Blockchain – Transforming Business</i> ” course of the WU Executive Academy programme, Vienna, Austria
08–10/2018	<i>Visiting researcher</i>	School of Computing and Information Systems at the University of Melbourne, VIC, Australia
10/17–02/2019	<i>Lecturer</i>	“ <i>Data Science</i> ” course of the WU Executive Academy programme, Vienna, Austria
01–03/2017	<i>Visiting researcher</i>	Information Systems School, Science and Engineering Faculty at the Queensland University of Technology, Brisbane, QLD, Australia
08–09/2016	<i>Visiting researcher</i>	Applied Informatics Department at the Federal University of the State of Rio de Janeiro, Brazil
10/2014	<i>Guest lecturer</i>	“ <i>Process Analysis and Mining</i> ” course at Faculty of Economics of the University of Ljubljana, Slovenia
09/2012	<i>Guest lecturer</i>	School on Complex Software Systems Design for CINI-Finmeccanica, Rome, Italy

## Technological Transfer and Entrepreneurship

02/2009	Co-founder and R&D of EXALTECH S.r.l., Software and IT company, Italy
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## Teaching Experience

10/20–	<i>Lecturer</i>	“ <i>Blockchain Technologies</i> ” at Sapienza University of Rome	(M.Sc., 6 ECTS)
10/20–	<i>Lecturer</i>	“ <i>Programming</i> ” at Sapienza University of Rome	(B.Sc., 6 ECTS)
10/20–	<i>Lecturer</i>	“ <i>Business Intelligence</i> ” at Sapienza University of Rome	(M.Sc., 3 ECTS)
02/20–03/2021	<i>Lecturer</i>	“ <i>Computer Architectures</i> ” at Sapienza University of Rome	(B.Sc., 6 ECTS)
02/20–03/2021	<i>Lecturer</i>	“ <i>Algorithm Design (Lab.)</i> ” at Sapienza University of Rome	(B.Sc., 3 ECTS)
02/19–09/2020	<i>Lecturer</i>	“ <i>Business Process Management</i> ” at WU Vienna	(M.Sc., 4 ECTS)
10/19–11/2019	<i>Lecturer</i>	“ <i>Applications of Data Science</i> ” at WU Vienna	(B.Sc., 4 ECTS)
10/18–11/2019	<i>Lecturer</i>	“ <i>Formal Foundations of Biz. Process Modelling</i> ” at WU Vienna	(M.Sc., 4 ECTS)
02/19–09/2019	<i>Lecturer</i>	“ <i>Seminars in Blockchains and Processes</i> ” at WU Vienna	(B.Sc., 4 ECTS)
10/17–01/2019	<i>Lecturer</i>	“ <i>Process Implementation</i> ” at WU Vienna	(B.Sc., 4 ECTS)
02/18–09/2018	<i>Lecturer</i>	“ <i>Blockchain Applications of Data Science</i> ” at WU Vienna	(B.Sc., 4 ECTS)
10/17–01/2018	<i>Lecturer</i>	“ <i>Business Process Analytics</i> ” at WU Vienna	(M.Sc., 4 ECTS)
02/16–09/2017	<i>Lecturer</i>	“ <i>Formal Foundations of System Analysis</i> ” at WU Vienna	(B.Sc., 4 ECTS)

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10/14–01/2016	<i>Lecturer</i>	“ <i>Process-oriented Systems Analysis</i> ” at WU Vienna	(B.Sc., 4 ECTS)
02/09–09/2013	<i>Tutor</i>	“ <i>Service-Oriented Architectures</i> ” at Sapienza University of Rome	(M.Sc., 6 ECTS)
02/09–09/2013	<i>Tutor</i>	“ <i>Seminars in Software and Services</i> ” at Sapienza University of Rome	(M.Sc., 1 ECTS)
02/05–09/2008	<i>Tutor</i>	“ <i>Software Design</i> ” at Sapienza University of Rome	(B.Sc., 5 ECTS)

## Supervision

<i>Co-advisor</i>	<b>4 Ph.D. students</b> at WU Vienna, Austria. Published papers co-authored with the Ph.D. students: [8, 15, 28, 31, 41, 34, 37, 38, 40, 42, 67, 68, 71].
<i>Co-supervisor</i>	<b>5 theses</b> for the Master of Science in <b>Information Systems</b> at WU Vienna, Austria and <b>3 theses</b> for the Master of Science in <b>Computer Science and Engineering</b> at the Sapienza University of Rome, Italy. Published papers co-authored with the students: [22, 26, 29, 25, 39, 43, 75, 79].
<i>Supervisor</i>	<b>13 theses</b> for the Bachelor of Science in <b>Information Business</b> at WU Vienna, Austria and <b>3 theses</b> for the Bachelor of Science in <b>Computer Science</b> at the Sapienza University of Rome, Italy. Published papers co-authored with the students: [17, 55, 59].
<i>Examiner</i>	<b>2 theses</b> for the Master of Science in <b>Computer Science</b> at the Sapienza University of Rome, Italy and a <b>thesis</b> for the Master of Science in <b>Computer Science</b> at the University of Padua, Italy.

## Languages

<i>Italian</i>	Mother tongue
<i>English</i>	C1/2 (Cambridge Certificate in Advanced English, 2013)
<i>German</i>	B1/2

## Computing Languages


<i>Stand-alone</i>	Java SE, Python, Bash, Solidity, R, C
<i>Web</i>	PHP, JavaScript, Java EE, JSP
<i>Querying</i>	SQL, XPath, XQuery
<i>Mark-up</i>	L <sup>A</sup> T <sub>E</sub> X, XML, HTML, CSS, XSLT

## Publication Metrics

<b>H-index</b>	25 (Google Scholar)	18 (Scopus)	<b>AW-index</b>	25.14 (Google Scholar)	17.29 (Scopus)
<b>Citations</b>	2188 (Google Scholar)	1222 (Scopus)	<b>Avg. citations</b>	23.78 (Google Scholar)	14.38 (Scopus)
<b>i10-index</b>	48 (Google Scholar)	32 (Scopus)	<b>M-index</b>	2.08 (Google Scholar)	1.50 (Scopus)

Latest update: 02/07/2021.

## Scholar Profiles

Google Scholar	 <a href="#">OBwQoWsAAAAJ</a>	ORCID	 <a href="#">0000-0001-5570-0475</a>
Scopus	 <a href="#">35193494400</a>	ResearchGate	 <a href="#">Claudio_Di_Ciccio</a>
DBLP	 <a href="#">18/10493</a>	Semantic Scholar	 <a href="#">3027667</a>























## Twelve Selected Publications









- Claudio Di Ciccio, Fabrizio Maria Maggi, Marco Montali, and Jan Mendling. “Resolving inconsistencies and redundancies in declarative process models”. In: *Information Systems* (2017), pp. 425–446. DOI: 10.1016/j.is.2016.09.005  SJR Q1  JCR I.F 2.551 [14].
- Claudio Di Ciccio and Massimo Mecella. “On the Discovery of Declarative Control Flows for Artful Processes”. In: *ACM Trans. Manage. Inf. Syst.* 4 (2015), 24:1–24:37. DOI: 10.1145/2629447  SJR Q1 [20].
- Claudio Di Ciccio, Fabrizio Maria Maggi, and Jan Mendling. “Efficient discovery of Target-Branched Declare constraints”. In: *Information Systems* (2016), pp. 258–283. DOI: 10.1016/j.is.2015.06.009  SJR Q1  JCR I.F 2.777 [16].
- Claudio Di Ciccio, Han van der Aa, Cristina Cabanillas, Jan Mendling, and Johannes Prescher. “Detecting flight trajectory anomalies and predicting diversions in freight transportation”. In: *Decision Support Systems* (2016), pp. 1–17. DOI: 10.1016/j.dss.2016.05.004  SJR Q1  JCR I.F 3.222 [15].
- Claudio Di Ciccio, Fabrizio Maria Maggi, Marco Montali, and Jan Mendling. “On the Relevance of a Business Constraint to an Event Log”. In: *Information Systems* (2018), pp. 144–161. DOI: 10.1016/j.is.2018.01.011  SJR Q1  JCR I.F 2.066 [13].
- Thomas Baier, Claudio Di Ciccio, Jan Mendling, and Mathias Weske. “Matching events and activities by integrating behavioral aspects and label analysis”. In: *Software & Systems Modeling* 2 (2018), pp. 573–598. DOI: 10.1007/s10270-017-0603-z  SJR Q2  JCR I.F 2.660 [10].
- Claudio Di Ciccio, Andrea Marrella, and Alessandro Russo. “Knowledge-intensive Processes: Characteristics, Requirements and Analysis of Contemporary Approaches”. In: *J. Data Semantics* 1 (2015), pp. 29–57. DOI: 10.1007/s13740-014-0038-4  SJR Q2 [19].
- Suhridd Satyal, Ingo Weber, Hye-young Paik, Claudio Di Ciccio, and Jan Mendling. “Business process improvement with the AB-BPM methodology”. In: *Information Systems* (2019), pp. 283–298. DOI: 10.1016/j.is.2018.06.007  SJR Q1  JCR I.F 2.466 [7].
- Jan Mendling, Ingo Weber, Wil Van Der Aalst, Jan Vom Brocke, Cristina Cabanillas, Florian Daniel, Søren Debois, Claudio Di Ciccio, Marlon Dumas, Schahram Dustdar, Avigdor Gal, Luciano García-Bañuelos, Guido Governatori, Richard Hull, Marcello La Rosa, Henrik Leopold, Frank Leymann, Jan Recker, Manfred Reichert, Hajo A. Reijers, Stefanie Rinderle-Ma, Andreas Solti, Michael Rosemann, Stefan Schulte, Mumindar P. Singh, Tijs Slaats, Mark Staples, Barbara Weber, Matthias Weidlich, Mathias Weske, Xiwei Xu, and Liming Zhu. “Blockchains for Business Process Management - Challenges and Opportunities”. In: *ACM Trans. Manage. Inf. Syst.* 1 (2018), 4:1–4:16. DOI: 10.1145/3183367  SJR Q1 [12].
- Fabrizio Maria Maggi, Claudio Di Ciccio, Chiara Di Francescomarino, and Taavi Kala. “Parallel algorithms for the automated discovery of declarative process models”. In: *Information Systems* (2018), pp. 136–152. DOI: 10.1016/j.is.2017.12.002  SJR Q1  JCR I.F 2.066 [11].
- Claudio Di Ciccio and Massimo Mecella. “Mining Artful Processes from Knowledge Workers’ Emails”. In: *IEEE Internet Computing* 5 (2013), pp. 10–20. DOI: 10.1109/MIC.2013.60  SJR Q1  JCR I.F 2.000 [21].
- Claudio Di Ciccio, Fabrizio Maria Maggi, Marco Montali, and Jan Mendling. “Ensuring Model Consistency in Declarative Process Discovery”. In: *Business Process Management - 13th International Conference, BPM 2015, Innsbruck, Austria, August 31 - September 3, 2015, Proceedings*. Springer, 2015, pp. 144–159. DOI: 10.1007/978-3-319-23063-4\_9  GGS A  CORE A ★ **Best Paper Award of the 13th Int. Conference on Business Process Management (BPM 2015)** [65].



## Full List of Publications









### Journal Articles







- [1] Daniel Beverungen, Joos C. A. M. Buijs, Jörg Becker, Claudio Di Ciccio, Wil M.P. van der Aalst, Christian Bartelheimer, Jan vom Brocke, Marco Comuzzi, Karsten Kraume, Henrik Leopold, Martin Matzner, Jan Mendling, Nadine Ogonek, Till Post, Manuel Resinas, Kate Revoredo, Adela del-Río-Ortega, Marcello La Rosa, Flávia Maria Santoro, Andreas Solti, Minseok Song, Armin Stein, Matthias Stierle, and Verena Wolf. “Seven Paradoxes of Business Process Management in a Hyper-Connected World”. In: *Business & Information Systems Engineering* 63.2 (2021), pp. 145–156. DOI: 10.1007/s12599-020-00646-z.  SJR Q1.
- [2] Boudewijn F. van Dongen, Johannes De Smedt, Claudio Di Ciccio, and Jan Mendling. “Conformance checking of mixed-paradigm process models”. In: *Information Systems* (2021). DOI: 10.1016/j.is.2020.101685.  SJR Q1.  JCR I.F 2.309.
- [3] Anton Yeshchenko, Claudio Di Ciccio, Jan Mendling, and Artem Polyvyanyy. “Visual Drift Detection for Event Sequence Data of Business Processes”. In: *IEEE Transactions on Visualization and Computer Graphics* (2021). DOI: 10.1109/TVCG.2021.3050071.  SJR Q1.  JCR I.F 4.579.
- [4] Artem Polyvyanyy, Andreas Solti, Matthias Weidlich, Claudio Di Ciccio, and Jan Mendling. “Monotone Precision and Recall Measures for Comparing Executions and Specifications of Dynamic Systems”. In: *ACM Trans. Softw. Eng. Methodol.* 29.3 (2020). DOI: 10.1145/3387909.  SJR Q2.  JCR I.F 2.674.
- [5] Christian Janiesch, Agnes Koschmider, Massimo Mecella, Barbara Weber, Andrea Burattin, Claudio Di Ciccio, Avigdor Gal, Udo Kannengiesser, Felix Mannhardt, Jan Mendling, Andreas Oberweis, Manfred Reichert, Stefanie Rinderle-Ma, WenZhan Song, Jianwen Su, Victoria Torres, Matthias Weidlich, Mathias Weske, and Liang Zhang. “The Internet-of-Things Meets Business Process Management: Mutual Benefits and Challenges”. In: *IEEE Systems, Man, and Cybernetics Magazine* 6.4 (2020), pp. 34–44. DOI: 10.1109/MSMC.2020.3003135.
- [6] Pnina Soffer, Annika Hinze, Agnes Koschmider, Holger Ziekow, Claudio Di Ciccio, Boris Koldehofe, Oliver Kopp, Arno Jacobsen, Jan Sürmeli, and Wei Song. “From event streams to process models and back: Challenges and opportunities”. In: *Information Systems* 81 (2019), pp. 181–200. DOI: 10.1016/j.is.2017.11.002.  SJR Q1.  JCR I.F 2.466.
- [7] Suhrid Satyal, Ingo Weber, Hye-young Paik, Claudio Di Ciccio, and Jan Mendling. “Business process improvement with the AB-BPM methodology”. In: *Information Systems* 84 (2019), pp. 283–298. DOI: 10.1016/j.is.2018.06.007.  SJR Q1.  JCR I.F 2.466.
- [8] Claudio Di Ciccio, Alessio Cecconi, Marlon Dumas, Luciano García-Bañuelos, Orlenys López-Pintado, Qinghua Lu, Jan Mendling, Alexander Ponomarev, An Binh Tran, and Ingo Weber. “Blockchain Support for Collaborative Business Processes”. In: *Informatik Spektrum* 42 (3 2019), pp. 182–190. DOI: 10.1007/s00287-019-01178-x.
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- [10] Thomas Baier, Claudio Di Ciccio, Jan Mendling, and Mathias Weske. “Matching events and activities by integrating behavioral aspects and label analysis”. In: *Software & Systems Modeling* 17.2 (2018), pp. 573–598. DOI: 10.1007/s10270-017-0603-z.  SJR Q2.  JCR I.F 2.660.
- [11] Fabrizio Maria Maggi, Claudio Di Ciccio, Chiara Di Francescomarino, and Taavi Kala. “Parallel algorithms for the automated discovery of declarative process models”. In: *Information Systems* 74 (2018), pp. 136–152. DOI: 10.1016/j.is.2017.12.002.  SJR Q1.  JCR I.F 2.066.
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- [14] Claudio Di Ciccio, Fabrizio Maria Maggi, Marco Montali, and Jan Mendling. “Resolving inconsistencies and redundancies in declarative process models”. In: *Information Systems* 64 (2017), pp. 425–446. DOI: 10.1016/j.is.2016.09.005.  SJR Q1.  JCR I.F 2.551.











- [15] Claudio Di Ciccio, Han van der Aa, Cristina Cabanillas, Jan Mendling, and Johannes Prescher. “Detecting flight trajectory anomalies and predicting diversions in freight transportation”. In: *Decision Support Systems* 88 (2016), pp. 1–17. DOI: 10.1016/j.dss.2016.05.004.  SJR Q1.  JCR I.F. 3.222.
- [16] Claudio Di Ciccio, Fabrizio Maria Maggi, and Jan Mendling. “Efficient discovery of Target-Branched Declare constraints”. In: *Information Systems* 56 (2016), pp. 258–283. DOI: 10.1016/j.is.2015.06.009.  SJR Q1.  JCR I.F. 2.777.
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- [18] Stefan Schönig, Cristina Cabanillas, Claudio Di Ciccio, Stefan Jablonski, and Jan Mendling. “Mining Resource Assignments and Teamwork Compositions from Process Logs”. In: *Softwaretechnik-Trends* 36.4 (2016). URL: [http://pi.informatik.uni-siegen.de/stt/36\\_4/03\\_Technische\\_Beitraege/Schoenig\\_et\\_al\\_2016.pdf](http://pi.informatik.uni-siegen.de/stt/36_4/03_Technische_Beitraege/Schoenig_et_al_2016.pdf).
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- [20] Claudio Di Ciccio and Massimo Mecella. “On the Discovery of Declarative Control Flows for Artful Processes”. In: *ACM Trans. Manage. Inf. Syst.* 5.4 (2015), 24:1–24:37. DOI: 10.1145/2629447.  SJR Q1.
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- [22] Claudio Di Ciccio, Massimo Mecella, Mario Caruso, Vincenzo Forte, Ettore Iacomussi, Katharina Rasch, Leonardo Querzoni, Giuseppe Santucci, and Giuseppe Tino. “The Homes of Tomorrow: Service Composition and Advanced User Interfaces”. In: *EAI Endorsed Trans. Ambient Systems* 11.1 (2011), e2. DOI: 10.4108/trans.amsys.2011.e2.



## Proceedings Papers












- [23] Claudio Di Ciccio. “Towards a Process-oriented Analysis of Blockchain Data”. In: *Companion Proceedings of Modelling 2020 Short, Workshop and Tools & Demo Papers co-located with Modelling 2020, Vienna, Austria, February 19-21, 2020*. Ed. by Judith Michael, Dominik Bork, Hans-Georg Fill, Peter Fettke, Dimitris Karagiannis, Julius Köpke, Agnes Koschmider, Heinrich C. Mayr, Jana-Rebecca Rehse, Ulrich Reimer, Michael Striewe, Marina Tropmann-Frick, and Meike Ullrich. Vol. 2542. CEUR Workshop Proceedings. CEUR-WS.org, 2020, pp. 42–44. URL: <http://ceur-ws.org/Vol-2542/MOD-DLT1.pdf>.
- [24] Claudio Di Ciccio, Giovanni Meroni, and Pierluigi Plebani. “Business Process Monitoring on Blockchains: Potentials and Challenges”. In: *Enterprise, Business-Process and Information Systems Modeling - 21st International Conference, BPMDS 2020, 25th International Conference, EMMSAD 2020, Held at CAiSE 2020, Grenoble, France, June 8-9, 2020, Proceedings*. Ed. by Selmin Nurcan, Iris Reinhartz-Berger, Pnina Soffer, and Jelena Zdravkovic. Vol. 387. Lecture Notes in Business Information Processing. Springer, 2020, pp. 36–51. ISBN: 978-3-030-49417-9. DOI: 10.1007/978-3-030-49418-6\_3.
- [25] Roman Mühlberger, Stefan Bachhofner, Eduardo Castelló Ferrer, Claudio Di Ciccio, Ingo Weber, Maximilian Wöhrer, and Uwe Zdun. “Foundational Oracle Patterns: Connecting Blockchain to the Off-chain World”. In: *Business Process Management: Blockchain and Robotic Process Automation Forum - BPM 2020 Blockchain and RPA Forum, Seville, Spain, September 13-18, 2020, Proceedings*. Ed. by Aleksandre Asatiani, José María García, Nina Helander, Andrés Jiménez Ramírez, Agnes Koschmider, Jan Mendling, Giovanni Meroni, and Hajo Reijers. Lecture Notes in Business Information Processing. Springer, 2020. ISBN: 978-3-030-58778-9. DOI: 10.1007/978-3-030-58779-6\_3.
- [26] Anti Alman, Claudio Di Ciccio, Dominik Haas, Fabrizio Maria Maggi, and Alexander Nolte. “Rule Mining with RuM”. In: *2nd International Conference on Process Mining, ICPM 2020, Padua, Italy, October 4-9, 2020*. Ed. by Boudewijn F. van Dongen, Marco Montali, and Moe Thandar Wynn. IEEE, 2020. ISBN: 978-1-7281-9832-3. DOI: 10.1109/ICPM49681.2020.00027.
- [27] Kathrin Figl, Claudio Di Ciccio, and Hajo A. Reijers. “Do declarative process models help to reduce cognitive biases related to business rules?” In: *Conceptual Modeling - 39th International Conference, ER 2019, Vienna, Austria, November 3-6, 2020, Proceedings*. Ed. by Gillian Dobbie, Ulrich Frank, Gerti Kappel, Stephen W. Liddle, and Heinrich C. Mayr. Lecture Notes in Computer Science. Springer, 2020, pp. 119–133. ISBN: 978-3-030-62522-1. DOI: 10.1007/978-3-030-62522-1\_9.  GGS B.  CORE A.
- [28] Alessio Cecconi, Giuseppe De Giacomo, Claudio Di Ciccio, and Jan Mendling. “A Temporal Logic-Based Measurement Framework for Process Mining”. In: *2nd International Conference on Process Mining, ICPM 2020, Padua, Italy, October 4-9, 2020*. Ed. by Boudewijn F. van Dongen, Marco Montali, and Moe Thandar Wynn. IEEE, 2020. ISBN: 978-1-7281-9832-3. DOI: 10.1109/ICPM49681.2020.00026.



- [29] Anti Alman, Claudio Di Ciccio, Dominik Haas, Fabrizio Maria Maggi, and Jan Mendling. “Rule Mining in Action: The RuM Toolkit”. In: *Proceedings of the ICPM Doctoral Consortium and Tool Demonstration Track 2020 co-located with the 2nd International Conference on Process Mining (ICPM 2020), Padua, Italy, October 4-9, 2020*. Ed. by Claudio Di Ciccio, Benoît Depaire, Jochen De Weerd, Chiara Di Francescomarino, and Jorge Munoz-Gama. Vol. 2703. CEUR Workshop Proceedings. CEUR-WS.org, 2020, pp. 51–54. URL: <http://ceur-ws.org/Vol-2703/paperTD9.pdf>.
- [30] Artem Polyvyanyy, Hanan Alkhamash, Claudio Di Ciccio, Luciano García-Bañuelos, Anna A. Kalenkova, Sander J.J. Leemans, Jan Mendling, Alistair Moffat, and Matthias Weidlich. “Entropia: A Family of Entropy-Based Conformance Checking Measures for Process Mining”. In: *Proceedings of the ICPM Doctoral Consortium and Tool Demonstration Track 2020 co-located with the 2nd International Conference on Process Mining (ICPM 2020), Padua, Italy, October 4-9, 2020*. Ed. by Claudio Di Ciccio, Benoît Depaire, Jochen De Weerd, Chiara Di Francescomarino, and Jorge Munoz-Gama. Vol. 2703. CEUR Workshop Proceedings. CEUR-WS.org, 2020, pp. 39–42. URL: <http://ceur-ws.org/Vol-2703/paperTD6.pdf>.
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