# Curriculum Vitae et Studiorum

## Contact Data


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| **Name** | Claudio Di Ciccio | **Citizenship** | Italian |
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## Professional Experience

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| 12/2023 ⟶ | *Associate professor* | Department of Information and Computing Sciences, Utrecht University, The Netherlands. |
| ↱ 11/2023 | *Associate professor* | Department of Computer Science, Sapienza University of Rome, Italy. |
| ↱ 12/2022 | *Assistant professor* | |
| 12/2019 | *(tenure track)* | |
| ↱ 11/2019 | *Assistant professor* | Institute for Information Business, |
| 07/2015 | *(non-tenure track)* | Vienna University of Economics and Business (WU Vienna), Austria. |
| ↱ 06/2015 | *Postdoctoral researcher* | |
| 07/2013 | | |
| ↱ 06/2012 | *R&D engineer* | EXALTECH S.r.l. (IT software development company), |
| 02/2009 | | Latina, Italy. |
| ↱ 06/2013 | *Research assistant* | Department of Computer, Control, and Management Engineering, |
| 11/2008 | | Sapienza University of Rome, Italy. |
| ↱ 10/2008 | *Student assistant,* | |
| 09/2005 | *research technician* | |

## Education

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| ↱ 06/2013 | **Ph.D.** in **Computer Science and Engineering** | (proclaimed: 07/10/2013) |
| 11/2009 | at Sapienza University of Rome, Italy. | *With honourable mention.* |
| ↱ 10/2008 | **Master of Science** in **Computer Science and Engineering** | (proclaimed: 02/12/2008) |
| 11/2005 | at Sapienza University of Rome, Italy. Avg. exam grade: 28.9/30. Final grade: 110/110 *cum laude.* | |
| ↱ 10/2005 | **Bachelor of Science** in **Computer Science and Engineering** | (proclaimed: 26/10/2005) |
| 09/2001 | at Sapienza University of Rome, Italy. Avg. exam grade: 29.3/30. Final grade: 110/110 *cum laude.* | |

## Qualifications

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| 26/02/2026 | **Ius Promovendi** issued by Utrecht University. |
| 09/02/2024 | **Senior Research Qualification** (SKOz) issued by Utrecht University. |
| 15/06/2022 | Certification of **expertise** in high-innovation and quality **teaching** (QUiD) at Sapienza. |
| 29/04/2021 | Italian scientific **habilitation** as **Associate Professor** of **Computer Science** (01/B1). |
| 06/05/2019 | Italian scientific **habilitation** as **Associate Professor** of **Information Proc. Systems** (09/H1). |
| 15/06/2011 | Italian **professional qualification** as **Information Engineer**. |

## Honours and Awards

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| 02/09/2015 | **Best Paper Award** at the *13th International Conference on Business Process Management* (BPM 2015, GGS A) [112]. |
| 28/01/2016 | **Best Presentation Award** at the *8th Central European Workshop on Services and their Composition* (ZEUS 2016) [102]. |
| 01/08/2018 | **Researcher of the Month** of the Vienna University of Economics and Business (WU Vienna), Austria. Official video at youtube.com/watch?v=WJcaAw5AuUY. |
| 15/04/2019 | **Best User Paper Award** at the *41st European Conference on Information Retrieval* (ECIR 2019, GGS A) [80]. |
| 26/10/2023 | **Best Workshop Paper Award** at the *5th Int. Workshop on Event Data and Behavioral Analytics (EdbA'23), co-located with the 5th Int. Conf. on Process Mining* (ICPM 2023) [51]. |

## Memberships

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| 2019– | Member of the Steering Committee of the IEEE CIS Task Force on Process Mining www.tf-pm.org |
| 2022– | Member of the Program Committee Board of IJCAI ijcai.org |
| 2022–2024 | Member of the IEEE CIS SA P1849 Working Group (Standard for eXtensible Event Stream (XES) for Achieving Interoperability in Event Logs and Event Streams) www.tf-pm.org/resources/xes-standard/about-xes/xes-wg |
| 2018– | Professional Member of the Association for Computing Machinery (ACM) |
| 2017–2019 | Member of the Research Institute for Cryptoeconomics of the Vienna University of Economics and Business (WU Vienna) wu.ac.at/cryptoeconomics |
| 2015–2019 | Member of the IEEE CIS Task Force on Process Mining www.tf-pm.org |
| 2013–2016 | Member of the W3C RDF Stream Processing Community Group w3.org/community/rsp |

## Chairpersonship and Organisation

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| 2025 | *Workshop Chair* | Int. Conference on Process Mining (ICPM) icpmconference.org/2025/call-for-workshop-proposals/ |
| 2024– | *Guest Editor* | Special Issue of Information Systems (SJR Q1) on "Process mining meets visual analytics" |
| 2024 | *Track Chair* | Blockchain Forum at the Int. Conference on Business Process Management (BPM, GGS A) https://bpm2024.agh.edu.pl/call-for-blockchain-forum/ |
| 2024 | *Workshop Chair* | Int. Conference on Advanced Information Systems Engineering (CAiSE, GGS A) https://cyprusconferences.org/caise2024/call-for-workshops/ |
| 2023 | *General Chair* | Int. Conference on Process Mining (ICPM) icpmconference.org/2023 |
| 2023– | *Editorial Board* | Journal of Intelligent Information Systems (SJR Q2) link.springer.com/journal/10844 |
| 2022–2023 | *Guest Editor* | Special Issue of of Information Systems (SJR Q1) with the Selected Papers of the Twentieth Int. Conference on Business Process Management doi.org/10.1016/j.is.2025.102535 |
| 2022–2023 | *Guest Editor* | Special Issue of the Journal of Intelligent Information Systems (SJR Q2) on Recent Advances in Process Analytics doi.org/10.1007/s13740-021-00130-1 |
| 2021–2023 | *Guest Editor* | Special Issue of Information Systems (SJR Q1) with the Selected Papers of the Third Int. Conference on Process Mining sciencedirect.com/special-issue/10Z18JFBSW3 |
| 2022 | *PC Chair* | Int. Conference on Business Process Management (BPM, GGS A) bpm2022.uni-muenster.de |
| 2021 | *PC Chair* | Int. Conference on Process Mining (ICPM) icpmconference.org/2021 |
| 2021 | *Track Chair* | Int. Conference on Business Process Management (BPM, GGS A), Tutorials & Panels Track bpm2021.diag.uniroma1.it/call-for-tutorials/ |
| 2021 | *Guest Editor* | Special Issue of the Journal on Data Semantics (SJR Q2) on Process Querying and Declarative, Decision and Hybrid Approaches to Processes doi.org/10.1007/s13740-021-00130-1 |
| 2023–2025 | *Organiser* | Int. Workshop on Formal Methods for Business Process Management (FM-BPM), co-located with the Int. Conference on Business Process Management (BPM, GGS A) fm-bpm2024.github.io |
| 2021 | *Organiser* | Int. Workshop on Workshop on BPM Problems to Solve Before We Die (PROBLEMS '21), co-located with the Int. Conference on Business Process Management (BPM, GGS A) sites.google.com/view/bpm-problems |
| 2020 | *Track Chair* | Int. Conference on Business Process Management (BPM, GGS A), Demos & Resources Track congreso.us.es/bpm2020/calls/demos |
| 2020 | *Track Chair* | Doctoral Consortium of the Int. Conference on Process Mining (ICPM) icpmconference.org/2020/doctoral-consortium |

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| 2019 | *Proceedings Chair* | Int. Conference on Business Process Management (BPM, GGS A) bpm2019.ai.wu.ac.at |
| 2019 | *Track Chair* | Blockchain Forum at the Int. Conference on Business Process Management (BPM, GGS A) https://bpm2019.ai.wu.ac.at/call-for-blockchain-forum/ |
| 2018–2024 | *Organiser* | Int. Workshop on Process Querying, Manipulation and Intelligence (PQMI), co-located with the Int. Conference on Process Mining (ICPM) processquerying.com/pqmi2024 |
| 2016–2023 | *Organiser* | Int. Workshop on Declarative, Decision, and Hybrid approaches to processes (DEC2H), co-located with the Int. Conference on Business Process Management (BPM, GGS A) dec2h-2023.di.uniroma1.it |
| 2015–2016 | *Organiser* | 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), ai.wu.ac.at/rw-bpms2016 |

## Presentations and Keynotes

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| 15/10/2024 | "*A Taste of the Different Flavors of Tiramisù*" [56] at the Demo Track of the 6th International Conference on Process Mining (ICPM 2024), Copenhagen, Denmark. |
| 03/06/2024 | **Keynote**: "*«I'm still / I'm still / Chaining from the Block»: An Outlook of the Ongoing and Future Relationship between Blockchain Technologies and Process-aware Information Systems.*" joint workshop on Blockchain for Information Systems (BC4IS) and Blockchain for Trusted Data Sharing (B4TDS), co-located with the 36th International Conference on Advanced Information Systems Engineering (CAiSE), Limassol, Cyprus. |
| 13/09/2023 | **Keynote**: "*Look but don't touch: On the impalpable bond between blockchain and process*" at the 4th BPM Blockchain Forum, Utrecht, Netherlands. |
| 19/08/2023 | **Keynote**: "*Automated reasoning and data analytics for declarative process mining*" at the 2nd Workshop on Process Management in the AI Era (PMAI), co-located with the 32nd International Joint Conference on Artificial Intelligence (IJCAI 2023), Macao S.A.R. |
| 27/10/2022 | "*Measurement of rule-based LTLf declarative process specifications*" [62], at the 4th Int. Conference on Process Mining (ICPM 2022), Bolzano, Italy, October 23-28, 2022. |
| 14/09/2022 | "*Conformance checking of mixed-paradigm process models*" [18], poster at the 20th Int. Conference on Business Process Management (BPM 2022), Münster, Germany, September 11-16, 2022. |
| 23/07/2022 | "*Computing unsatisfiable cores for LTLf specifications*" [64], at the Workshop on Process Management in the AI Era (PMAI 2022) co-located with IJCAI, Vienna, Austria, July 23, 2022. |
| 08/09/2021 | "*RuM: Declarative process mining, distilled*" [67], tutorial at the 19th Int. Conference on Business Process Management (BPM), Rome, Italy, 2021, 6-10 September 2021. |
| 11/11/2020 | **Keynote**: "*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. |
| 08/06/2020 | "*Business process monitoring on blockchains – Potentials and challenges*" [71] at the 21st International Working Conference on Enterprise, Business-Process and Information Systems Modeling (BPMDS 2020), co-located with CAiSE, Grenoble, France, 8-9 June 2020. |
| 19/02/2020 | "*Towards a process-oriented analysis of blockchain data*" [70] at the 1st Int. Workshop on Conceptual Modeling for Distributed Ledger Technologies (MOD-DLT), co-located with Modellierung, Vienna, Austria, 19 February 2020. |
| 02/09/2019 | "*Extracting event logs for process mining from data stored on the blockchain*" [86] at the 2nd Int. Workshop on Security and Privacy-enhanced Business Process Management (SPBP 2019), co-located with BPM, Vienna, Austria, 2 September 2019. |
| 01/07/2018 | "*Blockchain-based traceability of inter-organisational business processes*" [90] 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*" [29] 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*" [30] 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*" [104] 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*" [93] 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*" [112] ★ **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*" [120] 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*" [118] at the 12th Int. Conference on Business Process Management (BPM 2014), Eindhoven, Netherlands, 7-11 September 2014.

08/09/2014 "*Predictive task monitoring for business processes*" [117] at the 12th Int. Conference on Business Process Management (BPM 2014), Eindhoven, Netherlands, 7-11 September 2014.

30/08/2013 "*Studies on the discovery of declarative control flows from error-prone data*" [122] 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*" [121] 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*" [124] 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*" [125] 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*" [126] 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*" [129] 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*" [127] 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*" [128] at the 2nd Int. ICST Conference on Ambient Media and Systems (AMBI-SYS 2011), Porto, Portugal, March 24-25 2011.

# Invited Talks

02/06/2026 "*Leveraging Trusted Execution Environments for secure and confidential process monitoring*" at the TUM Blockchain & Cybersecurity Salon, Technical University of Munich, Germany.

20/11/2025 "*Declarative process specification mining: Discovery of and reasoning on temporal-logic rules*" at KU Leuven, Belgium.

20/11/2025 "*Blockchain technologies for process management*" at KU Leuven, Belgium.

30/04/2025 "*Preserving secrecy for process data exchange via public blockchain*", Sapienza Cybersecurity Seminars, Sapienza University of Rome, Italy.

21/06/2024 "*Declarative process specification mining: discovering and reasoning on temporal-logic rules*", VvL Dutch Logic PhD Day 2024, Vrije Universiteit (VU) Amsterdam, The Netherlands.

11/04/2024 "*Declarative process specification mining*", Latin American School on Process Variability and Mining, Universidad de la República, Uruguay.

16/01/2024 "*Formal foundations of process mining: A primer*" at WU Vienna, Austria.

06/02/2023 "*Specification mining and the program from the block*" at Utrecht University, The Netherlands.

13/09/2022 "*Recent advances in event log format standardisation – An update from the XES Working Group*", BP-meet-IoT'22, 13 September 2022, Münster, Germany.

04/07/2022 "*Process discovery III: Declarative process mining*", Process Mining Summer School, 4-8 July 2022, Aachen, Germany.

09/03/2022 "*Blockchain as a process automation infrastructure*", Sapienza Cybersecurity Seminars, Sapienza University of Rome, Italy.

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| 24/01/2022 | "*Blockchain: Concepts and applications*", 2nd online school on Smart Data Processing and Systems of Deep Insight, 24-28 January 2022, for the DESTINI H2020 Twinning project, organised by the Cyprus University of Technology, Limassol, Cyprus. |
| 24/11/2021 | "*Blockchain and smart contracts: Infrastructure and platforms*", Cyber 4.0 Seminar at Confindustria CONNEXT 2021, Milan, Italy. |
| 12/10/2021 | "*Blockchain: Concepts and research directions*" for the DESTINI H2020 Twinning project, organised by the Cyprus University of Technology, Limassol, Cyprus. |
| 02/11/2021 | "*Panel: Rethinking the input for process mining*" in the role of moderator at the XES 2.0 Workshop of the 3rd Int. Conference on Process Mining (ICPM 2021), Eindhoven, The Netherlands. |
| 09/09/2021 | "*Panel: Is process technology ready for rare events?*" in the role of moderator at the 19th Int. Conference on Business Process Management (BPM 2021), Rome, Italy. |
| 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. |
| 08/10/2020 | "*The process and the blockchain: A story of miners*" at WU Vienna, Austria. |
| 19/07/2019 | "*The Process and the blockchain: A story of miners*" at 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 Sapienza University of Rome, Italy. |
| 15/04/2019 | "*Declarative specification of processes: Discovery and reasoning*" at 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$^{\text{th}}$ 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. |
| 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. |
| 28/09/2017 | "*Logistics data: Analysis, mining, and execution on blockchain*" at the European Supply Chain Forum's Data2Move kick-off meeting, 28-29 September 2017, Eindhoven, The Netherlands. |
| 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-Universität zu 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 processes*" 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. |

## Program Committees and Referrals

*PC member*

*Conferences*

• Int. Conference on Business Process Management (BPM, GGS A) 2018, 2019, 2020, 2021, 2023, 2024, 2025; Senior PC member since 2021 • Int. Joint Conference on Artificial Intelligence (IJCAI, GGS A++) 2015, 2021, 2022, 2023, 2024, 2025; Senior PC member in 2025 • European Conference on Artificial Intelligence (ECAI, GGS A++) 2023, 2024, 2025 • Int. Conference on Process Mining (ICPM) 2019, 2020, 2022, 2024, 2025; Senior PC member in 2025 • Int. Conference on Advanced Information Systems Engineering (CAiSE, GGS A) 2019, 2020, 2021, 2023, 2024, 2025 • Int. Enterprise Computing Conference (EDOC, GGS B) 2020, 2021, 2022, 2023, 2024, 2025 • Int. Conference on Service-Oriented Computing (ICSOC, GGS A-), 2022, 2023 • Int. Conference on Cooperative Information Systems (CoopIS, GGS B), 2022, 2023 • European Conference on Information Systems (ECIS, GGS B) 2016, 2018, 2021, 2022, 2023, 2024, 2025; Associate Editor since 2022 • Int. Conference of the Italian Association for Artificial Intelligence (AI*IA) 2018, 2019, 2020, 2021, 2023 • Wirtschaftsinformatik (WI) 2020, 2021, 2022, 2023 (Associate Editor of the BPM track) • Int. Conference on Business Informatics (CBI) 2016 • Int. Conference on Information Quality (ICIQ) 2012

*Symposia*

• Int. Syposium on Methodologies for Intelligent Systems (ISMIS) 2024 • Blockchain Forum at the Int. Conference on Business Process Management (BPM Blockchain Forum) 2020, 2021, 2022, 2023 • Int. Conference on Software and System Processes (ICSSP) 2017, 2018, 2019, 2020, 2021 • Int. Working Conference on Business Process Modeling, Development, and Support (BPMDS) 2020, 2021 • Int. Working Conference on Exploring Modeling Methods for Systems Analysis and Development (EMMSAD) 2018, 2019 • Int. Conference on Subject-Oriented Business Process Management (S-BPM ONE) 2015, 2016, 2017, 2018 • Int. Symposium on Business Modeling and Software Design (BMSD) 2018 • Int. Symposium on Data-driven Process Discovery and Analysis (SIMPDA) 2015, 2016, 2017 • Special Session on Process Mining at the IEEE Symposium Series on Computational Intelligence (CIDM) 2013, 2014 • Special Session on Process Mining at the World Congress on Computational Intelligence (WCCI) 2014

*Workshops*

• Artificial Intelligence for Business Process Management (AI4BPM) 2018, 2019, 2020, 2021, 2023, 2024, 2025 • Process Management in the AI era (PMAI) 2024, 2025 • Visual Process Analytics (VIPRA) 2025 • Blockchain for Information Systems Engineering (B4ISE) 2025 • Distributed Ledger Technologies in Business Process Management (DLT4BPM) 2025 • Event Based Data Analysis (EbdA) 2020, 2021, 2022, 2024 • Foundations and Applications of Blockchain (FAB) 2024 • Business Process Intelligence (BPI) 2017, 2018, 2019, 2020, 2021, 2022, 2023 • Process-oriented Data Science for Healthcare (PODS4H) 2020, 2021, 2022 • Algorithms & Theories for the Analysis of Event Data (ATAED) 2016, 2017, 2018, 2019, 2020, 2022, 2023 • Business Process Management and the Internet of Things (BP-meet-IoT) 2022 • Data Quality and Transformation in Process Mining (DQT-PM) 2022 • Blockchain Technologies for Multi-Agent Systems (BCT4MAS) 2019 • Flexible Advanced Information Systems (FAiSE) 2019 • Blockchains for Inter-Organizational Collaboration (BIOC) 2019 • Security and Privacy-enhanced Business Process Management (SPBP) 2019, 2020 • Business Data Analytics (BDA) 2018 • Central-European Workshop on Services and their Composition (ZEUS) 2016, 2017 • Process Querying (PQ) 2016, 2017 • Business Process Innovation with Artificial Intelligence (BPAI) 2017 • Cognitive Business Process Management (CBPM) 2017 • Resource Management in Business Processes (ReMa) 2016 • Performance and Conformance of Workflow Engines (PEACE) 2016 • Resource Management in Service-Oriented Computing (RMSOC 2014) • Artificial Intelligence meets Business Processes and Services (AIBPS) 2014 • Knowledge-intensive Business Processes (KiBP) 2012, 2013

*Jury*

*Consortia*

• Jury of the Best Process Mining PhD Thesis Award 2025 • Board of the Doctoral Consortium of the Int. Conference on Process Mining (ICPM DC) 2019, 2020, 2022, 2023, 2024 • Jury of the Demo Track of the Int. Conference on Process Mining (ICPM Demos) 2019, 2020, 2021, 2022, 2023 • Jury of the Demo Track the Int. Conference on Business Process Management (BPM Demos) 2018, 2019, 2020 • Jury of the Business Process Intelligence Challenge (BPIC) 2014, 2015, 2016, 2017, 2018, 2019, 2020.

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| *Reviewer* | *Journals* | • Information Systems (SJR Q1) • Journal of Industrial Information Integration (SJR Q1) • Journal of Information Security and Applications (SJR Q1) • IEEE Transactions on Information Forensics & Security (SJR Q1) • Computers in Industry (SJR Q1) • ACM Trans. on Software Engineering and Methodology (TOSEM, SJR Q1) • ACM Trans. on Management Information Systems (TMIS, SJR Q1) • Decision Support Systems (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) • Journal of Biomedical Informatics (SJR Q1) • Business & Information Systems Engineering (BISE, SJR Q1) • J. Network and Computer Applications (SJR Q1) • Journal of Biomedical Informatics (SJR Q1) • Artificial Intelligence in Medicine (SJR Q1) • Automation in Construction (SJR Q1) • Computer Communications (SJR Q1) • IEEE Trans. on Automation Science and Engineering (SJR Q1) • Journal of Logic and Computation (SJR Q2) • 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) • Journal of Logic and Computation • Semantic Web Journal • Ledger • SN Computer Science • Computing • Transactions on Petri Nets and Other Models of Concurrency • Revista de Informática Teórica e Aplicada • ICST Trans. Ambient Systems. |

## Service

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| 03/2020– | *Member* | Scientific Board of the PhD in Computer Science at Sapienza University of Rome |
| 06-09/2023 | *Member* | Admission committee for the Ph.D. programme in *Computer Science* (cycle XXXIX) at Sapienza University of Rome |
| 03/21–11/2023 | *Coordinator* | Admission committee for the Bachelor's programme in *Applied Computer Science and Artificial Intelligence* at Sapienza University of Rome and liaison for Sapienza with the College Board for Higher Education |
| 11/20–11/2023 | *Member* | Didactic committee of the Department of Computer Science at Sapienza University of Rome |

## National and International Projects

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| 2023–2025 | *Scientific advisor* | Cyber 4.0 competence centre research project "*Health-e-Data*", co-funded by NextGenerationEU's Recovery and Resilience Facility. Total funding: 305 089 €. |
| 2022–2023 | *Research unit head* | PRIN research project "*exPlaInable kNowledge-aware PrOcess INTelligence (PINPOINT)*", grant number (CUP) B87G22000450001 with the Department of Computer Science of Sapienza University of Rome, Italy. Total funding: 794 578 € (Sapienza: 182 809 €). pinpoint.unibz.it/ |
| 2022–2023 | *Research unit head* | Cyber 4.0 competence centre research project "*Blockchain Register for Import Export (BRIE)*", core pillar framework, with the Department of Computer Science of Sapienza University of Rome, Italy. Total funding: 179 000 € (Sapienza: 32 000 €). brie.moveax.it/ |
| 2023 | *Co-principal investigator* | PRIN research project "*Panacea: A Model-Based Framework for Self-Protecting Systems*", grant number (CUP) B53D23013280006 with the Department of Computer Science of Sapienza University of Rome, Italy. Total funding: 238 203 € (Sapienza: 78 559 €). |
| 2023 | *Co-principal investigator* | Sapienza research project "*ASGARD: Autonomous and Self-Governing Agent-Based Rule Design*" with the Department of Computer Science of Sapienza University of Rome, Italy. Funding: 47 500 €. |
| 2022– | *Project coordinator* *Scientific advisor* | Lazio research and innovation project – incentives for innovative doctoral programs for enterprises and the PA "*Predictive process monitoring for production planning*", grant number (CUP) B83C22004050009 with the Department of Computer Science of Sapienza University of Rome, Italy. Funding: 72 995 €. |

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| 2022–2023 | *Faculty investigator* | Sapienza research project "*Distributed Ledger and Credit Guarantee Schemes*" with the Departments of Computer Science and Management of Sapienza University of Rome, Italy. Funding: 33 890 €. |
| 2022–2023 | *Faculty investigator* | Sapienza research project "*Drones as a Service for First Emergency Response*" with the Department of Computer Science of Sapienza University of Rome, Italy. Funding: 45 000 €. |
| 2022 | *Faculty host* | Research visit program at the Department of Computer Science of Sapienza University of Rome, Italy, hosting Prof. Hajo A. Reijers. Total funding: 9000 €. |
| 2021–2023 | *Faculty investigator* | Sapienza research project "*Secure and Privacy-preserving Protocols for Automatic Contact Tracing (SPECTRA)*" with the Department of Computer Science of Sapienza University of Rome, Italy. Funding: 42 000 €. |
| 2021 | *Faculty host* | Research visit program with the Department of Computer Science of Sapienza University of Rome, Italy, hosting Dr. Artem Polyvyanyy. Total funding: 5000 €. |
| 2017–2020 | *Work package leader* | Austrian Research Promotion Agency (FFG) research project "*Cyber-Physical Social Systems for City-wide Infrastructures*" (CitySPIN), grant number 861213, with WU Vienna, Austria. Total funding: 628 000 € (WU: 167 000 €). projekte.ffg.at/projekt/2764085<br>Lead of Work Package 5 ("*Process Mining and Monitoring on Linked Data*"). |
| 2015–2019 | *Work package leader* | EU H2020 Marie Skłodowska-Curie research project "*Propelling Business Process Management by Research and Innovation Staff Exchange*" (RISE_BPM), grant number 645751, with WU Vienna, Austria. Total funding: 855 000 € (WU: 252 000 €). cordis.europa.eu/project/id/645751<br>Lead of Work Package 8 ("*Synthesis of IT artifacts: BPM implementation*"). |
| 2019 | *Research partner* | Austrian Research Promotion Agency (FFG) Competence Centers for Excellent Technologies (COMET) "*Austrian Blockchain Center (ABC)*", Area 2 (Cryptoeconomic Modelling & Blockchain Applications for Business), with WU Vienna, Austria. blockchain-center.at |
| 2017–2018 | *Research staff member* | Austrian Research Promotion Agency (FFG) research project "*Business Process Optimization Toolkit*", grant number 862950, with WU Vienna, Austria. |
| 2014–2017 | *Research staff member* | Austrian Research Promotion Agency (FFG) research project "*Safety-critical Human- and dAta-centric Process management in Engineering projects*" (SHAPE), grant number 861213, with WU Vienna, Austria. ai.wu.ac.at/shape-project |
| 2013–2015 | *Research staff member* | EU FP7-ICT research project "*European Wide Service Platform for Green European Transportation*" (GET Service), grant number 318275, with WU Vienna, Austria. cordis.europa.eu/project/id/318275 |
| 2008–2011 | *Research staff member* | EU FP7-ICT research project "*Smart Homes for All*" (SM4All), grant number 224332, with Sapienza University of Rome, Italy. sm4all-project.eu |
| 2007–2008 | *Research assistant* | "*Re-engineered Province Bureaus [Uffici Provinciali Reingegnerizzati]*" (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 | *Research technician* | EU FP6 "*DELOS Network of Excellence on Digital Libraries*", with Sapienza University of Rome, Italy. delosw.isti.cnr.it |
| 2018 | *Referee* | Register of Scientific Experts (REPRISE), Fundamental Research section, set up at the Italian Ministry of Education, University and Research |
| 2018 | *Referee* | The Netherlands' research council for the Engineering and Applied Sciences (NWO/TTW) |
| 2017 | *Referee* | Italian Research Projects of National Relevance (PRIN) |

## Technological Transfer and Entrepreneurship

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|---|---|
| 04/2022 | Co-founder of BB-Smile S.r.l., start-up of Sapienza University of Rome and University of Molise, Italy bb-smile.net/ |
| 02/2009 | Co-founder and R&D (from 2009 to 2012) of EXALTECH S.r.l., Software and IT company, Italy |

## National and International Appointments

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|---|---|---|
| 11/2025 | *Visiting researcher* | Information Systems Engineering Research Group, Faculty of Economics and Business, KU Leuven, Belgium |
| 04/2025 | *Organiser* | "*Multi-Faceted Visual Process Mining and Analytics*", Dagstuhl Seminar 25152, Wadern, Germany. |
| 04/2024 | *Lecturer* | "*Latinoamerican School on Process Variability and Mining*", Montevideo, Uruguay fing.edu.uy/inco/eventos/bpmuy/2024/index2.html |
| 09/2023 | *Academic director*<br>*Organiser* | "*Challenges in building Billion Users Cloud Applications*" (BUCA'23) Summer School, Varenna, Italy buca23.bici.events |
| 09/2023 | *Organiser* | "*Human in the (Process) Mines*", Dagstuhl Seminar 23271, Wadern, Germany. |
| 12/22–03/2023 | *Lecturer* | "*Blockchain*" Cyber 4.0 Advanced Training Course for the Automotive Industry, Rome, Italy |
| 11/22–05/2023 | *Lecturer* | "*Girls for Green Technology Applications*" (G4GRETA) course for girls enrolled in high schools, Sapienza University of Rome, Italy |
| 07/2022 | *Lecturer* | "*Process Mining Summer School*", Aachen, Germany process-mining-summer-school.org |
| 06/2022 | *Academic director*<br>*Organiser* | "*Challenges in building Billion Users Cloud Applications*" (BUCA'22) Summer School, Bertinoro, Italy |
| 04/2022 | *Lecturer* | "*Designing Blockchain-based Applications*", Master in Service Design, POLI.design, Milan, Italy |
| 01–03/2022 | *Committee member* | Examination board for recruitment procedure C05 at the Chamber of Deputies, Rome, Italy |
| 04/2020 | *Lecturer* | "*Process Mining*" PhD Course, University of Calabria, Rende, Italy |
| 07/2019 | *Lecturer* | "*Blockchain: Applications and Security*" Cyber Security PhD Summer School 2019, Voore, Estonia |
| 02–06/2019 | *Academic director*<br>*Lecturer* | "*Blockchain – Transforming Business*" course of the WU Executive Academy programme, Vienna, Austria |
| 08–10/2018 | *Visiting researcher* | School of Computing and Information Systems, University of Mebourne, VIC, Australia |
| 10/17–02/2019 | *Lecturer* | "*Data Science*" course of the WU Executive Academy programme, Vienna, Austria |
| 01–03/2017 | *Visiting researcher* | Information Systems School, Science and Engineering Faculty, Queensland University of Technology, Brisbane, QLD, Australia |
| 08–09/2016 | *Visiting researcher* | Department of Computer Science, Humboldt-Universität zu Berlin, Germany |
| 08–09/2016 | *Visiting researcher* | Applied Informatics Department, Federal University of the State of Rio de Janeiro, Brazil |
| 10/2014 | *Guest lecturer* | "*Process Analysis and Mining*" course at the Faculty of Economics of the University of Ljubljana, Slovenia |
| 12/2013 | *Visiting researcher* | Department of Industrial Engineering and Innovation Sciences, Eindhoven University of Technology, The Netherlands |
| 09/2012 | *Guest lecturer* | School on Complex Software Systems Design for CINI-Finmeccanica, Rome, Italy |

## Teaching Experience

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|---|---|---|---|
| 09/25– | *Lecturer* | "*AI and Software Engineering*" (60%) [EN] at Utrecht University | (M.Sc., 7.5 ECTS) |
| 09/24– | *Lecturer* | "*Data Modelling*" (40%) [EN] at Utrecht University | (B.Sc., 7.5 ECTS) |
| 05/24– | *Lecturer* | "*Process Modelling*" (40%) [EN] at Utrecht University | (B.Sc., 7.5 ECTS) |
| 02/25–08/2025 | *Lecturer* | "*Theories in Information Systems*" [EN] at Utrecht University | (M.Sc., 7.5 ECTS) |
| 02/24–09/2024 | *Lecturer* | "*Software Architectures*" (40%) [EN] at Utrecht University | (M.Sc., 7.5 ECTS) |
| 10/22–09/2024 | *Lecturer* | "*Blockchain and Distributed Ledger Technologies*" [EN] at Sapienza | (M.Sc., 6 ECTS) |
| 02/22–03/2024 | *Lecturer* | "*Artificial Intelligence and Machine Learning, Unit 1*" [EN] at Sapienza | (B.Sc., 6 ECTS) |
| 10/22–12/2023 | *Lecturer* | "*Introduction to Programming and Laboratory*" [EN] at Sapienza | (B.Sc., 6 ECTS) |

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|---|---|---|
| 02/20–03/2023 *Lecturer* | "*Computer Architectures*" [IT] at Sapienza | (B.Sc., 6 ECTS) |
| 10/20–09/2022 *Lecturer* | "*Blockchain Technologies*" [EN] at Sapienza | (M.Sc., 6 ECTS) |
| 10/20–09/2021 *Lecturer* | "*Programming*" [EN] at Sapienza | (B.Sc., 6 ECTS) |
| 10/20–09/2021 *Lecturer* | "*Business Intelligence*" (50%) [EN] at Sapienza | (M.Sc., 3 ECTS) |
| 02/20–03/2021 *Lecturer* | "*Algorithm Design (Lab.)*" [IT] at Sapienza | (B.Sc., 3 ECTS) |
| 02/19–09/2020 *Lecturer* | "*Business Process Management*" [EN] at WU Vienna | (M.Sc., 4 ECTS) |
| 10/19–11/2019 *Lecturer* | "*Applications of Data Science*" [EN] at WU Vienna | (B.Sc., 4 ECTS) |
| 10/18–11/2019 *Lecturer* | "*Formal Foundations of Business Process Modelling*" [EN] at WU Vienna | (M.Sc., 4 ECTS) |
| 02/19–09/2019 *Lecturer* | "*Seminars in Blockchains and Processes*" [EN] at WU Vienna | (B.Sc., 4 ECTS) |
| 10/17–01/2019 *Lecturer* | "*Process Implementation*" [EN] at WU Vienna | (B.Sc., 4 ECTS) |
| 02/18–09/2018 *Lecturer* | "*Blockchain Applications of Data Science*" [EN] at WU Vienna | (B.Sc., 4 ECTS) |
| 10/17–01/2018 *Lecturer* | "*Business Process Analytics*" [EN] at WU Vienna | (M.Sc., 4 ECTS) |
| 02/16–09/2017 *Lecturer* | "*Formal Foundations of System Analysis*" [EN] at WU Vienna | (B.Sc., 4 ECTS) |
| 10/14–01/2016 *Lecturer* | "*Process-oriented Systems Analysis*" (50%) [DE] at WU Vienna | (B.Sc., 4 ECTS) |
| 02/09–09/2013 *Tutor* | "*Service-Oriented Architectures*" [IT] at Sapienza | (M.Sc., 6 ECTS) |
| 02/09–09/2013 *Tutor* | "*Seminars in Software and Services*" [EN] at Sapienza | (M.Sc., 1 ECTS) |
| 02/05–09/2008 *Tutor* | "*Software Design*" [IT] at Sapienza | (B.Sc., 5 ECTS) |

## Supervision

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|---|---|---|
| *PhD* | *Supervisor* | • *Computer Science* at Sapienza University of Rome: 5 PhD laureates (Edo M., 2025, Dave B., Valerio G., Luca B., and Saba L. 2026). • *Computing Sciences* at Utrecht University, The Netherlands: 1 candidate (Michele K., since 2025). |
| | *Co-supervisor* | • *Computing Sciences* at Utrecht University, The Netherlands: 1 candidate (Marcus D., since 2025). • *Business Informatics* at WU Vienna, Austria: 1 PhD laureate (Alessio C., 2022). • *Computer Science and Engineering* at Sapienza University of Rome, Italy: 1 PhD laureate (Simone A., 2022). |
| | *Daily advisor* | • *Business Informatics* at WU Vienna, Austria: 1 candidate (Johannes P.) and 2 PhD laureates (Anton Y., Dina B., 2022, 2023). |
| | *Examiner* | • *Business, economics and social science* at the Kühne Logistics University (Kiran B., 2026). • *Computer Science* at the University of Copenhagen, Denmark: 2 theses (Paul C., 2024, and Christoffer OB., 2021). • *Information and Communication Technology* at Sapienza University of Rome, Italy (Pierluigi L., 2024). • *Information and Communication Technology* at Griffith University, Australia (Jeyakumar S. T., 2024). • *Computer Science and Mathematics* at the University of Camerino, Italy (Alessandro M., 2023). • *Computer Science and Engineering* at the University of Seville, Spain (Álvaro VP., 2022). |
| | *Co-author* | Published papers co-authored by the PhD candidates: [2, 3, 6, 10, 12, 13, 14, 23, 30, 47, 50, 49, 48, 44, 55, 54, 53, 52, 59, 58, 63, 62, 61, 65, 75, 78, 88, 81, 84, 85, 87, 89, 115, 116, 119]. |
| *MSc* | *Supervisor* | • *Computing Sciences* at Utrecht University: 1 thesis (Floris vVtV., 2025). • *Business Informatics* at Utrecht University: 1 thesis (Mariia K., 2025). • *Artificial Intelligence* at Utrecht University: 1 research internship (Cecilia I., 2025). • *Computer Science* at Sapienza University of Rome: 11 theses (Michele S., Fabiana M., Marco R., Nagarjun L., Elvina L., Vincenzo R., Andrea P., Tommaso B., Dave B., Valerio G., Andrea T., 2022-2024). *Cybersecurity* at Sapienza University of Rome: 1 thesis (Michele K., 2024). • *Economics and communication for management and innovation* at Sapienza University of Rome: 3 theses (Mariia D., Emanuele C., Dario A., 2021-2022). |
| | *Co-supervisor* | • *Business Informatics* at Utrecht University: 2 theses (Alan CV., Christoffer K. G, 2025). • *Information Systems* at WU Vienna: 4 theses (Maxim V., Dominik H., Erwin F., Roman M., 2015-2020). • *Computer Science and Engineering* at Sapienza University of Rome: 4 theses (Chiara M., 2026, Alessio C., 2018, Vincenzo F., Ettore I., 2012). |
| | *Examiner* | • *Computer Science* at Sapienza University of Rome: 8 theses (Mujtaba H. M., Giordano D., Gabriella T., Gianmarco C., Luca B., Andrei S. B., Alberto M. M., Sanaz E., 2020-2023). • *Computer Science* at the University of Padua, Italy: 1 thesis (Guido S., 2020). |
| | *Co-author* | Published papers co-authored by the MSc students: [37, 46, 45, 53, 66, 73, 76, 72, 86, 90, 123, 128]. |

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|---|---|---|
| *BSc* | *Supervisor* | • *Information Sciences* at Utrecht University: 1 thesis (Pelle V., 2024). • *Applied Computer Science and Artificial Intelligence* at Sapienza University of Rome: 2 theses (Cecilia I., 2023, Alessandro V., 2024). • *Computer Science* at Sapienza University of Rome: 14 theses (Alexandru C., Alessandro C., Jessica LC., Ralph A., Matteo M., Simone Z., Michele K., Mirko P., Marco R., Silverio M., Seweryn K., Emanuele B., Dave B., Valerio G., Daniele C., 2020-2024). • *Information Business* at WU Vienna, Austria: 14 theses (Thomas S., Mark S., Daniel W., Dominik H., Daniel E., Martin C., Matej P., Amra N., Maximilian K., Lukas H., Michael H., Asja H., Tianhe L., Julien T.C., 2015-2019). |
| | *Co-supervisor* | • *Information Sciences* at Utrecht University: 2 theses (Joris K., Wahib T., 2024-2025). • *Applied Computer Science and Artificial Intelligence* at Sapienza University of Rome: 2 theses (Cecilia I., Alessandro V., 2023-2024). • *Computer Science* at Sapienza University of Rome: 15 theses (Alexandru C., Alessandro C., Jessica LC., Ralph A., Matteo M., Simone Z., Michele K., Mirko P., Marco R., Silverio M., Seweryn K., Emanuele B., Dave B., Valerio G., Daniele C., 2020-2024). • *Information Business* at WU Vienna, Austria: 14 theses (Thomas S., Mark S., Daniel W., Dominik H., Daniel E., Martin C., Matej P., Amra N., Maximilian K., Lukas H., Michael H., Asja H., Tianhe L., Julien T.C., 2015-2019). |
| | *Co-author* | Published papers co-authored by the BSc students: [32, 102, 106]. |

## Languages

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| *Italian* | Mother tongue |
| *English* | C1/2 (CAE, 2013); Teaching in English Advanced (Utrecht University, 2024) |
| *German* | B1/2 |

# Publication Metrics

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|---|---|---|---|---|---|
| **H-index** | 40 (Google Scholar) | 33 (Scopus) | **AW-index** | 34.13 (Google Scholar) | 24.88 (Scopus) |
| **Citations** | 7099 (Google Scholar) | 3877 (Scopus) | **Avg. citations** | 52.59 (Google Scholar) | 33.14 (Scopus) |
| **i10-index** | 96 (Google Scholar) | 68 (Scopus) | **M-index** | 2.35 (Google Scholar) | 1.94 (Scopus) |

Latest update: 2026-06-24. Measures computed via Publish or Perish. Data sources: Google Scholar and Scopus.

## Scholar Profiles

| | | | |
|---|---|---|---|
| Google Scholar | OBwQoWsAAAAJ | ORCiD | 0000-0001-5570-0475 |
| Scopus | 35193494400 | ResearchGate | Claudio_Di_Ciccio |
| DBLP | 18/10493 | Semantic Scholar | 3027667 |

# Twelve Selected Publications

1. Claudio Di Ciccio and Marco Montali. "Declarative Process Specifications: Reasoning, Discovery, Monitoring". In: *Process Mining Handbook*. Springer, 2022, pp. 108–152. DOI: 10.1007/978-3-031-08848-3_4 [39].
2. Davide Basile, Valerio Goretti, Luca Barbaro, Hajo A. Reijers, and Claudio Di Ciccio. "A TEE-based approach for preserving data secrecy in process mining with decentralized sources". In: *Journal of Information Security and Applications* (2026), p. 104381. DOI: 10.1016/j.jisa.2026.104381 SJR Q1 JCR I.F 4.4 [2].
3. Alessio Cecconi, Luca Barbaro, Claudio Di Ciccio, and Arik Senderovich. "Measuring rule-based LTLf process specifications: A probabilistic data-driven approach". In: *Information Systems* (2024), p. 102312. DOI: 10.1016/j.is.2023.102312 SJR Q1 JCR I.F 3.7 [6].
4. 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 [29].
5. 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 [35].
6. Marco Roveri, Claudio Di Ciccio, Chiara Di Francescomarino, and Chiara Ghidini. "Computing Unsatisfiable Cores for LTLf Specifications". In: *J. Artif. Intell. Res.* (2024), pp. 517–558. DOI: 10.1613/jair.1.15313 SJR Q1 JCR I.F 4.5 [7].
7. 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 [30].
8. Claudio Di Ciccio, Giovanni Meroni, and Pierluigi Plebani. "On the adoption of blockchain for business process monitoring". In: *Software and Systems Modeling* 3 (2022), pp. 915–937. DOI: 10.1007/s10270-021-00959-x SJR Q2 JCR I.F 1.910 [16].
9. 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 [31].
10. 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* 8 (2022), pp. 3050–3068. DOI: 10.1109/TVCG.2021.3050071 SJR Q1 JCR I.F 4.579 [13].
11. 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 [34].
12. Suhrid 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 [22].

# Full List of Publications

## Journal Articles

[1] Anti Alman, Alessio Arleo, Iris Beerepoot, Andrea Burattin, Claudio Di Ciccio, and Manuel Resinas. "Tiramisù: making sense of multi-faceted process information through time and space". In: *Journal of Intelligent Information Systems* 64.3 (2026), pp. 1081–1103. DOI: 10.1007/s10844-024-00875-8. SJR Q2. JCR I.F 3.4.

[2] Davide Basile, Valerio Goretti, Luca Barbaro, Hajo A. Reijers, and Claudio Di Ciccio. "A TEE-based approach for preserving data secrecy in process mining with decentralized sources". In: *Journal of Information Security and Applications* 98 (2026), p. 104381. DOI: 10.1016/j.jisa.2026.104381. SJR Q1. JCR I.F 4.4.

[3] Sabrina Leo, Ida Claudia Panetta, Andrea Delle Foglie, Luca Barbaro, Edoardo Marangone, and Claudio Di Ciccio. "BLINK: Blockchain-linked network for credit guarantee institutions". In: *Financial Innovation* 12.82 (2026), pp. 2199–4730. DOI: 10.1186/s40854-025-00880-y. SJR Q1. JCR I.F 7.2.

[4] Silvia Miksch, Claudio Di Ciccio, Pnina Soffer, and Barbara Weber. "Visual Analytics Meets Process Mining: Challenges and Opportunities". In: *IEEE Computer Graphics and Applications* 44.6 (2025), pp. 132–141. DOI: 10.1109/MCG.2024.3456916. JCR I.F 1.9.

[5] Eva Piccirilli, Claudio Di Ciccio, Marco Montali, Rafael Peñaloza, Luigi Pontieri, and Francesco Ricca. "Explainable Knowledge-Aware Process Intelligence". In: *KI - Künstliche Intelligenz* (2025). DOI: 10.1007/s13218-025-00897-6.

[6] Alessio Cecconi, Luca Barbaro, Claudio Di Ciccio, and Arik Senderovich. "Measuring rule-based LTLf process specifications: A probabilistic data-driven approach". In: *Information Systems* 120 (2024), p. 102312. DOI: 10.1016/j.is.2023.102312. SJR Q1. JCR I.F 3.7.

[7] Marco Roveri, Claudio Di Ciccio, Chiara Di Francescomarino, and Chiara Ghidini. "Computing Unsatisfiable Cores for LTLf Specifications". In: *J. Artif. Intell. Res.* 80 (2024), pp. 517–558. DOI: 10.1613/jair.1.15313. SJR Q1. JCR I.F 4.5.

[8] Paolo Bottoni, Claudio Di Ciccio, Remo Pareschi, Domenico Tortola, Nicola Gessa, and Gilda Massa. "Blockchain-as-a-service and blockchain-as-a-partner: Implementation options for supply chain optimization". In: *Blockchain: Research and Applications* (2023), p. 100119. DOI: 10.1016/j.bcra.2022.100119. SJR Q1.

[9] Iris Beerepoot, Claudio Di Ciccio, Hajo A. Reijers, Stefanie Rinderle-Ma, Wasana Bandara, Andrea Burattin, Diego Calvanese, Tianwa Chen, Izack Cohen, Benoît Depaire, Gemma Di Federico, Marlon Dumas, Christopher van Dun, Tobias Fehrer, Dominik A. Fischer, Avigdor Gal, Marta Indulska, Vatche Isahagian, Christopher Klinkmüller, Wolfgang Kratsch, Henrik Leopold, Amy Van Looy, Hugo Lopez, Sanja Lukumbuzya, Jan Mendling, Lara Meyers, Linda Moder, Marco Montali, Vinod Muthusamy, Manfred Reichert, Yara Rizk, Michael Rosemann, Maximilian Röglinger, Shazia Sadiq, Ronny Seiger, Tijs Slaats, Mantas Simkus, Ida Asadi Someh, Barbara Weber, Ingo Weber, Mathias Weske, and Francesca Zerbato. "The biggest business process management problems to solve before we die". In: *Computers in Industry* 146 (2023), p. 103837. DOI: 10.1016/j.compind.2022.103837. SJR Q1. JCR I.F 8.2.

[10] Dina Bayomie, Claudio Di Ciccio, and Jan Mendling. "Event-case correlation for process mining using probabilistic optimization". In: *Information Systems* 114 (2023), p. 102167. DOI: 10.1016/j.is.2023.102167. SJR Q1. JCR I.F 3.7.

[11] Jörg Becker, Friedrich Chasin, Michael Rosemann, Daniel Beverungen, Jennifer Priefer, Jan vom Brocke, Martin Matzner, Adela del Rio Ortega, Manuel Resinas, Flavia Santoro, Minseok Song, Kangah Park, and Claudio Di Ciccio. "City 5.0: Citizen involvement in the design of future cities". In: *Electronic Markets* 33.10 (2023), pp. 1–21. DOI: 10.1007/s12525-023-00621-y. SJR Q1. JCR I.F 6.378.

[12] Davide Basile, Claudio Di Ciccio, Valerio Goretti, and Sabrina Kirrane. "Blockchain based resource governance for decentralized web environments". In: *Frontiers in Blockchain* 6 (2023), p. 1141909. DOI: 10.3389/fbloc.2023.1141909. JCR I.F 3.1.

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