

INFORMAZIONI PERSONALI **Simone Agostinelli**

Sesso M | | Nazionalità italiana

TITOLO DI STUDIO PhD in Engineering in Computer Science (Cycle XXXIV). PhD Thesis: "Generating Executable Robotic Process Automation Scripts from Unsegmented User Interface Logs".

ESPERIENZA PROFESSIONALE

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- 2025 - today **Assistant professor - RTT (scientific disciplinary sector ING-INF/05 (IINF05/A)) at Mercatorum University of Rome**
Research topics: Business Management (BPM); Artificial Intelligence (AI), Robotic Process Automation (RPA); HumanComputer Interaction (HCI); Process Mining; Model Learning; Automated Planning in the field of BPM; Big Data Pipelines Discovery; Blockchain Technologies.
- 2023 - 2025 **Assistant professor - RTDA (scientific disciplinary sector ING-INF/05 (IINF05/A)) at Sapienza University of Rome**
Research topics: Business Management (BPM); Artificial Intelligence (AI), Robotic Process Automation (RPA); HumanComputer Interaction (HCI); Process Mining; Model Learning; Automated Planning in the field of BPM; Big Data Pipelines Discovery; Blockchain Technologies.
- 2022 - 2023 **Postdoctoral research fellow at Sapienza University of Rome**
Research topics: Business Management (BPM); Robotic Process Automation (RPA); HumanComputer Interaction (HCI); Process Mining; Model Learning; Automated Planning in the field of BPM; Big Data Pipelines Discovery.

ISTRUZIONE E FORMAZIONE

[Inserire separatamente i corsi frequentati iniziando da quelli più recenti.]

- 2022 **PhD In Engineering in Computer Science, Sapienza University of Rome**
- 2018 **Master Degree in Engineering in Computer Science, Sapienza University of Rome**
- 2015 **Bachelor Degree in Engineering in Computer Science, Sapienza University of Rome**

Sostituire con il livello QEQ o altro, se conosciuto

COMPETENZE PERSONALI

Lingua madre Italiana

Altre lingue

COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
Ascolto	Lettura	Interazione	Produzione orale	
inglese	B2	B2	B2	B2

Livelli: A1/A2: Utente base - B1/B2: Utente intermedio - C1/C2: Utente avanzato
[Quadro Comune Europeo di Riferimento delle Lingue](#)

Competenze professionali

As a Computer Engineer, I have developed strong professional skills in software development, system architecture, and network management, combined with expertise in problem-solving, algorithm design, and the implementation of innovative technological solutions.

Competenze organizzative e gestionali

Developed strong organizational and management skills as Technical Manager of a national project, actively contributing to the planning and implementation of European research projects.

Competenze comunicative

Teaching in academic settings has allowed me to refine a communicative approach based on clarity, active listening, and the ability to adapt language to different learning needs. I have taught several bachelor's and master's degree courses at Sapienza University of Rome.

Patente di guida

Sostituire con la categoria/e della patente di guida. Esempio:
 A, B

ULTERIORI INFORMAZIONI

Pubblicazioni

International Journals

- J1. S. Agostinelli, A. Arman, F. De Luzi, F. Monti, M. Manglaviti, M. Mecella. Supporting Business Confidentiality in Cooperative Scenarios: the B-CONFIDENT Approach in Blockchainbased Supply Chains. In: Journal of Industrial Information Integration (ISSN 2452-414X), DOI: <https://doi.org/10.1016/j.jii.2024.100730>, Elsevier, 2024
- J2. S. Agostinelli, F. Chiariello, F.M. Maggi, A. Marrella, F. Patrizi. Process Mining Meets Model Learning: Discovering Deterministic Finite State Automata from Event Logs for Business Process Analysis. In: Information Systems (ISSN 0306-4379), Volume 114, Elsevier, 2023
- J3. S. Agostinelli, M. Lupia, A. Marrella, M. Mecella. Reactive Synthesis of Software Robots in RPA from User Interface Logs. In: Computers in Industry (ISSN 0166-3615), Volume 142, Elsevier, 2022
- J4. S. Agostinelli, F. Covino, G. D'Agnesse, C. De Crea, F. Leotta, A. Marrella. Supporting Governance in Healthcare through Process Mining: A Case Study. In: IEEE Access (ISSN 21693536), Volume 8, IEEE, 2020
- J5. S. Agostinelli, T. Hohenadl, A. Marrella, A. Martinez-Rojas. SmartRPA: Generating Software Robots from User Interface Logs. Currently under review after a minor revision at SoftwareX, Elsevier, 2024

Book

- B1. S. Agostinelli. Generating Executable Robotic Process Automation Scripts from Unsegmented User Interface Logs. Springer, 2024. This book is a revised version of the PhD Dissertation written by the author. The original PhD dissertation is accessible at: <https://iris.uniroma1.it/handle/11573/1661397>

International Conferences

- C1. S. Agostinelli, D. Benvenuti, A. Marrella, J. Rossi. DIS-PIPE: A Tool for Data Pipeline Discovery. In: Proceedings of the Doctoral Consortium and Demo Track at the 6th

- International Conference on Process Mining (ICPM 2024), CEUR Workshop Proceedings (Vol. 3783), Copenhagen, Denmark, 15 October 2024
- C2. S. Agostinelli, D. Benvenuti, A. Casciani, F. De Luzi, M. Marinacci, A. Marrella, J. Rossi. A Context-Aware Framework to Support Decision-Making in Production Planning. In: Proceedings of the 36th International Conference on Advanced Information Systems Engineering (CAiSE 2024), Springer (Vol. 14663), pp. 248-264, Lymassol, Cyprus, 3-7 June 2024
 - C3. S. Agostinelli, F. De Luzi, M. Manglaviti, M. Mecella, F. Monti, F.M. Petriccione, M. Mesenzani, A. Pollini, A. Verioli, U. Amadio. BinTraWine - Blockchain, Tracking and Tracing Solutions for Wine. In: Proceedings of 35th International Conference on Advanced Information Systems Engineering (CAiSE 2023), CEUR Workshop Proceedings (Vol. 3413), pp. 44-51, Zaragoza, Spain, 16 June 2023
 - C4. S. Agostinelli, A. Marrella, L. Abb, J.R. Rehse. Mastering Robotic Process Automation with Process Mining. In: Proceedings of the 20th International Conference on Business Process Management (BPM 2022), Springer (Vol. 13420 LNCS), pp. 47-53, Münster, Germany, 11-16 September 2022
 - C5. S. Agostinelli, G. Acitelli, M. Capece, M. Mecella. A Human-in-the-Loop Approach to Support the Segments Compliance Analysis. In: Proceedings of the Robotic Process Automation (RPA) Forum, held as part of the 20th International Conference on Business Process Management (BPM 2022), Springer (Vol. 459 LNBIIP), pp. 200-214, Münster, Germany, 11-16 September 2022
 - C6. S. Agostinelli, F. De Luzi, U. Di Canito, J. Ferraro, A. Marrella, M. Mecella. A Data-Centric Approach to Design Resilient-Aware Process Models in BPMN. In: Proceedings of the Business Process Management Forum, held at the 20th International Conference on Business Process Management (BPM 2022), Springer (Vol. 458 LNBIIP), pp. 38-54, Münster, Germany, 11-16 September 2022
 - C7. S. Agostinelli, F. Leotta, A. Marrella. Interactive Segmentation of User Interface Logs. In: Proceedings of the 19th International Conference on Service-Oriented Computing (ICSOC 2021), Springer (Vol. 13121), pp. 65-80, Dubai, 22-25 November 2021
 - C8. S. Agostinelli, G. Bergami, A. Fiorenza, F.M. Maggi, A. Marrella, F. Patrizi. Discovering Declarative Process Model Behavior from Event Logs via Model Learning. In: Proceedings of the 3rd International Conference on Process Mining (ICPM 2021), pp. 48-55, Eindhoven, 31 October - 4 November 2021
 - C9. S. Agostinelli, M. Lupia, A. Marrella, M. Mecella. SmartRPA: A Tool to Reactively Synthesize Software Robots from User Interface Logs. In: Proceedings of the 33rd International Conference on Advanced Information Systems Engineering (CAiSE 2021 Forum), Springer (Volume 424 LNBIIP), pp. 137-145, Melbourne, Australia, 28 June - 2 July 2021.
 - C10. S. Agostinelli, A. Marrella, M. Mecella. Exploring the Challenge of Automated Segmentation in Robotic Process Automation. In: Proceedings of 15th International Conference on Research Challenges in Information Science (RCIS 2021), Springer, (Volume 415 LNBIIP), pp. 38-54, Limassol, Cyprus, 11-14 May 2021.
 - C11. S. Agostinelli. Automated Segmentation of User Interface Logs Using Trace Alignment Techniques (Extended Abstract). In: Proceedings of 2nd International Conference on Process Mining (ICPM 2020) - Doctoral Consortium and Tool Demonstration Track, CEUR Workshop Proceedings (Vol. 2703), pp. 13-14, Padua, Italy, 4-9 October 2020.
 - C12. S. Agostinelli, M. Lupia, A. Marrella, M. Mecella. Automated Generation of Executable RPA Scripts from User Interface Logs. In: Proceedings of 18th International Conference on Business Process Management (BPM 2020) – Robotic Process Automation (RPA) Forum, Springer (Vol 393 LNBIIP), pp. 116-131, Seville, Spain, 13-18 September 2020. Selected among the best papers of the RPA Forum

- C13. S. Agostinelli, F.M. Maggi, A. Marrella, F. Milani. A User Evaluation of Process Discovery Algorithms in a Software Engineering Company. In: Proceedings of 23rd IEEE International Conference on Enterprise Computing (EDOC 2019), pp. 142-150, Paris, France, 28-31 October 2019
- C14. S. Agostinelli, F.M. Maggi, A. Marrella, F. Sapiro. Achieving GDPR Compliance of BPMN Process Models. In: Proceedings of 31st International Conference on Advanced Information Systems Engineering (CAiSE 2019 Forum), Springer (Vol. 350), pp. 10-22, Rome, Italy. 3-7 June 2019. **Winner of the Best Forum Paper Award**

International Workshops

- W1. G. Acitelli, S. Agostinelli, A. Casciani, A. Marrella. An End-To-End Execution of a Logistic Process in an AI-Augmented Business Process Management System. Accepted at the Workshop on Process Management in the AI Era (PMAI 2024), held in conjunction with the 27th European Conference on Artificial Intelligence (ECAI 2024), CEUR Workshop Proceedings, Santiago de Compostela, Spain, 19-24 October 2024
- W2. G. Acitelli, S. Agostinelli, A. Casciani, A. Marrella. The Role of Trust in AI-Augmented Business Process Management Systems. Accepted at the Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2024), held in conjunction with the 22nd International Conference on Business Process Management (BPM 2024), Springer, Krakow, Poland, 2 September 2024
- W3. S. Agostinelli, A. Marrella. Intelligent Robotic Process Automation: Generating Executable RPA Scripts from Unsegmented UI Logs. In: Proceedings of the Workshop on Process Management in the AI Era (PMAI 2022), held in conjunction with the 31st International Joint Conference on Artificial Intelligence and the 25th European Conference on Artificial Intelligence (IJCAI-ECAI 2022), CEUR Workshop Proceedings (Vol. 3310), pp. 89-21, Wien, Austria, 23 July 2022
- W4. S. Agostinelli, A. Marrella, M. Mecella. Towards Intelligent Robotic Process Automation for BPMers. In: Proceedings of the AAAI-20 Workshop on Intelligent Process Automation (IPA 2020), held in conjunction with the 34th AAAI Conference on Artificial Intelligence (AAAI 2020), New York, U.S.A., 7-12 February 2020. <https://arxiv.org/pdf/2001.00804.pdf>
- W5. S. Agostinelli, F.M. Maggi, A. Marrella, M. Mecella. Verifying Petri Net-Based Process Models using Automated Planning. In: Proceedings of the 23rd IEEE International Enterprise Distributed Object Computing Workshop (EDOC 2019), Vol. 2019, pp. 44-53, Paris, France, 28 October 2019
- W6. S. Agostinelli, A. Marrella, M. Mecella. Research Challenges for Intelligent Robotic Process Automation. In: Proceedings of the Workshop on Artificial Intelligence for Business Process Management (AI4BPM 2019), held in conjunction with the 17th International Conference on Business Process Management (BPM 2019), Springer (Vol. 362 LNBP), pp. 12-18, Vienna, Austria, 2 September 2019

Dati personali Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".