



Pietro Sala

Associate Professor

National Scientific Qualifications

- 15/06/2023 **09/H1 – Information Processing Systems**
Qualified as Full Professor
- 05/06/2023 **01/A1 – Mathematical Logic and Complementary Mathematics**
Qualified as Full Professor
- 19/04/2019 **01/A1 – Mathematical Logic and Complementary Mathematics**
Qualified as Associate Professor
- 07/08/2018 **01/B1 – Computer Science**
Qualified as Associate Professor

Work Experience

- 12/2022 – **Associate Professor**
Present Department of Computer Science - University of Verona
Responsibilities: Research, Teaching, Third Mission.
- 11/2019 – **Senior Researcher (RTD-B)**
11/2022 Department of Computer Science - University of Verona
Responsibilities: Research, Teaching, Third Mission.
- 07/2016 – **Junior Researcher (RTD-A)**
10/2019 Department of Computer Science - University of Verona
Responsibilities: Research, Teaching, Third Mission.
- 03/2013 – **Postdoctoral Research Fellow**
06/2016 Department of Computer Science - University of Verona
Project Title: An interval-based approach for data analysis and workflow modeling in the pharmacological-medical domain.
Supervisor: Prof. Carlo Combi, Department of Computer Science, University of Verona
Responsibilities: Research.
- 03/2012 – **Postdoctoral Research Fellow**
02/2013 Department of Diagnostics and Public Health - University of Verona
Project Title: Collection and analysis of vaccine surveillance data from the web.
Supervisors: Prof. Giampaolo Velo and Prof. Ugo Moretti, Department of Diagnostics and Public Health, University of Verona
Responsibilities: Research.

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* 8 May 1981

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Military Service: Fulfilled (student deferment until the suspension of compulsory military service — Law 22

03/2010 – **Postdoctoral Research Fellow**

02/2012 Department of Computer Science - University of Verona

Project Title: Study of OLAP and data mining techniques for the management of temporal information.

Supervisor: Prof. Carlo Combi, Department of Computer Science, University of Verona

Responsibilities: Research.

Education

2006–2010 **Ph.D. in Computer Science**

Department of Mathematical, Computer, and Physical Sciences - University of Udine

Thesis Title: "Decidability of Interval Temporal Logics"

Supervisor: Prof. Angelo Montanari, Department of Mathematical, Computer, and Physical Sciences, University of Udine

2003–2006 **Master's Degree in Computer Science**

Faculty of Mathematical, Computer, and Physical Sciences - University of Udine

Thesis Title: "An Optimal Decision Procedure for Propositional Neighbourhood Logic"

Supervisor: Prof. Angelo Montanari, Department of Mathematical, Computer, and Physical Sciences, University of Udine

Grade: 110/110 cum laude

2000–2003 **Bachelor's Degree in Computer Science**

Faculty of Mathematical, Computer, and Physical Sciences - University of Udine

Thesis Title: "Tableau Methods for Interval Temporal Logics"

Supervisor: Prof. Angelo Montanari, Department of Mathematical, Computer, and Physical Sciences, University of Udine

Grade: 110/110 cum laude

Teaching Activities

At the Department of Computer Science, **University of Verona:**

- 2026/2027
- *Course:* Biomedical Decision Support Systems (also offered as "Data Mining" for the Master's Degree in Computer Science and Engineering) - 42 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Pietro Sala
 - *Course:* Operating Systems II (module of "Operating Systems and Computer Networks")
- 56 hours (32 hours of theory and exercises, 24 hours of laboratory)
Bachelor's Degree in Computer Science
Coordinator: Prof. Damiano Carra
 - *Course:* Temporal Reasoning - 18 hours
Master's Degree in Artificial Intelligence
Coordinator: Prof. Roberto Posenato
 - *Course:* Python Programming Language - 20 hours
Ph.D. School of the University of Verona
Coordinator: Prof. Pietro Sala
- 2025/2026
- *Course:* Biomedical Decision Support Systems - 42 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Pietro Sala

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- *Course:* Temporal Reasoning - 18 hours
Master's Degree in Artificial Intelligence
Coordinator: Prof. Roberto Posenato
 - *Course:* Data Mining - 42 hours
Master's Degree in Computer Science and Engineering
Coordinator: Prof. Pietro Sala
 - *Course:* Software Engineering (Laboratory) - 24 hours (12 hours Computer Science, 12 hours Bioinformatics)
Bachelor's Degree in Computer Science and Bachelor's Degree in Bioinformatics
Coordinator: Prof. Carlo Combi
- 2024/2025
- *Course:* Biomedical Decision Support Systems - 42 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Pietro Sala
 - *Course:* Data Mining and Knowledge Discovery - 42 hours
Master's Degree in Computer Science and Engineering
Coordinator: Prof. Pietro Sala
 - *Course:* Healthcare Information Systems - 24 hours
Master's Degree in Medical Bioinformatics
Coordinators: Prof. Carlo Combi and Prof. Pietro Sala
 - *Course:* Software Engineering (Laboratory) - 24 hours (12 hours Computer Science, 12 hours Bioinformatics)
Bachelor's Degree in Computer Science and Bachelor's Degree in Bioinformatics
Coordinator: Prof. Carlo Combi
 - *Course:* Attention Laboratory - 36 hours
Bachelor's Degree in Computer Science, Bachelor's Degree in Bioinformatics, Master's Degree in Medical Bioinformatics, Master's Degree in Artificial Intelligence and Master's Degree in Computer Science and Engineering.
Coordinator: Prof. Pietro Sala
- 2023/2024
- *Course:* Biomedical Decision Support Systems - 42 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Pietro Sala
 - *Course:* Data Mining and Knowledge Discovery - 42 hours
Master's Degree in Computer Science and Engineering
Coordinator: Prof. Pietro Sala
 - *Course:* Healthcare Information Systems - 24 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Carlo Combi
 - *Course:* Software Engineering (Laboratory) - 24 hours (12 hours Computer Science, 12 hours Bioinformatics)
Bachelor's Degree in Computer Science and Bachelor's Degree in Bioinformatics
Coordinator: Prof. Carlo Combi

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- *Course:* Programming for Scientific Computing - 16 hours
Bachelor's Degree in Applied Mathematics
Coordinator: Prof. Pietro Sala

- 2022/2023 ○ *Course:* Software Engineering (Laboratory) - 12 hours
Bachelor's Degree in Computer Science
Coordinator: Prof. Carlo Combi
- *Course:* Data Mining and Knowledge Discovery - 42 hours
Master's Degree in Computer Science and Engineering
Coordinator: Prof. Pietro Sala
- *Course:* Healthcare Information Systems - 24 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Carlo Combi
- *Course:* Biomedical Decision Support Systems - 42 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Pietro Sala

- 2021/2022 ○ *Course:* Software Engineering (Laboratory) - 12 hours
Bachelor's Degree in Computer Science
Coordinator: Prof. Carlo Combi
- *Course:* Data Mining and Knowledge Discovery - 42 hours
Master's Degree in Computer Science and Engineering
Coordinator: Dr. Pietro Sala Ph.D.
- *Course:* Healthcare Information Systems - 24 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Carlo Combi
- *Course:* Biomedical Decision Support Systems - 42 hours
Master's Degree in Medical Bioinformatics
Coordinator: Dr. Pietro Sala Ph.D.

- 2020/2021 ○ *Course:* C Programming Language - 12 hours
Bachelor's Degree in Applied Mathematics
Coordinator: Dr. Pietro Sala Ph.D.
- *Course:* Data Mining and Knowledge Discovery - 48 hours
Master's Degree in Computer Science and Engineering
Coordinator: Dr. Pietro Sala Ph.D.
- *Course:* Healthcare Information Systems - 24 hours
Master's Degree in Medical Bioinformatics
Coordinator: Prof. Carlo Combi
- *Course:* Biomedical Decision Support Systems - 48 hours
Master's Degree in Medical Bioinformatics
Coordinator: Dr. Pietro Sala Ph.D.

- 2019/2020 ○ *Course:* Logic, Automata and Games at the Edge of Decidability - 20 hours
Ph.D. Program in Computer Science
Coordinator: Dr. Pietro Sala Ph.D.

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- *Course:* Biomedical Decision Support Systems - 52 hours
Master's Degree in Medical Bioinformatics
Coordinator: Dr. Pietro Sala Ph.D.
- 2018/2019 ○ *Course:* Biomedical Decision Support Systems - 52 hours
Master's Degree in Medical Bioinformatics
Coordinator: Dr. Pietro Sala Ph.D.
- 2017/2018 ○ *Course:* Biomedical Decision Support Systems - 52 hours
Master's Degree in Medical Bioinformatics
Coordinator: Dr. Pietro Sala Ph.D.
- 2016/2017 ○ *Course:* Biomedical Decision Support Systems - 52 hours
Master's Degree in Medical Bioinformatics
Coordinator: Dr. Pietro Sala Ph.D.
- 2014/2015 ○ *Course:* Database systems for bioinformatics - 12 hours
Bachelor's Degree in Bioinformatics
Coordinator: Prof. Carlo Combi
- 2013/2014 ○ *Course:* Software Engineering (Laboratory) - 12 hours
Bachelor's Degree in Computer Science
Coordinators: Dr. Marco Volpe Ph.D. and Dr. Pietro Sala Ph.D.
- 2011/2012 ○ *Course:* Languages and Algorithms for Bioinformatics (Lab) - 12 hours
Master's Degree in Bioinformatics
Coordinators: Dr. Alberto Castellini Ph.D. and Dr. Pietro Sala Ph.D.

At the Department of Foreign Languages and Literatures, **University of Verona:**

- 2019/2020 ○ *Course:* Web Design Laboratory - 36 hours
Bachelor's Degree in Languages and Literatures for Publishing and Digital Media
Coordinator: Dr. Pietro Sala Ph.D.

At the Department of Mathematics and Computer Science, **University of Trieste:**

- 2010/2011 ○ *Course:* Artificial Intelligence II - 48 hours
Master's Degree in Computer Science
Coordinator: Dr. Pietro Sala Ph.D.

At the Department of Mathematics, **University of Padova:**

- 2022/2023 ○ *Course:* Databases - 72 hours
Bachelor's Degree in Computer Science
Coordinator: Prof. Pietro Sala

At the Department of Mathematics and Computer Science, **University of Udine:**

- 2009/2010 ○ *Course:* Computer Architecture - 12 hours
Bachelor's Degree in Computer Science
Coordinator: Prof. Pietro Di Gianantonio

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2008/2009 ○ *Course:* Computer Architecture (Laboratory) - 24 hours
Bachelor's Degree in Computer Science
Coordinator: Prof. Pietro Di Gianantonio

2007/2008 ○ *Course:* Computer Architecture (Laboratory) - 24 hours
Bachelor's Degree in Computer Science
Coordinator: Prof. Pietro Di Gianantonio

Supervision of PhD Students

I am supervising the following PhD students as supervisor:

Current PhD Students:

2024/2025 - *PhD Student:* Dr. Cesare Montresor
2027/2028 *Affiliation:* Department of Computer Science - University of Verona
Topic: Neural Modularity Search
Cycle: 40th - *Year:* 2nd

2024/2025 - *PhD Student:* Dr. Sidra Nasir Rajput
2027/2028 *Affiliation:* Department of Computer Science - University of Verona
Topic: Large Language Models Integration
Cycle: 40th - *Year:* 2nd

2023/2024 - *PhD Student:* Dr. Emanuele Chini
2026/2027 *Affiliation:* "La Sapienza" University of Rome (National PhD in AI)
Topic: Time-series analysis for HVAC systems
Cycle: 39th - *Year:* 3rd

Completed PhD Students:

2022/2023 - *PhD Student:* Dr. Alberto Azzari
2025/2026 *Affiliation:* Polytechnic University of Turin (National PhD in AI)
Topic: Symbolic and Sub-symbolic methods for mission-critical tasks
Cycle: 38th

Defended: 22nd April 2026 (with honours - cum laude)

2021/2022 - *PhD Student:* Dr. Omid Zare
2025/2026 *Affiliation:* Department of Computer Science - University of Verona
Topic: Interpretable AI methods for prompt classification of temporal data
Cycle: 37th

Defended: 10th December 2025

Scientific Responsibility of Research Grants

○ *Researcher:* Dr. Sandro Bernardinello
Project Title: "Application of AI Algorithms for Modeling the Spray Drying Process for Drug Synthesis"
01/06/2024 - 31/05/2027

○ *Researcher:* Dr. Federico Bianchi
Project Title: "Application of AI Algorithms for Modeling the Spray Drying Process for Drug Synthesis"
01/10/2024 - 30/09/2027

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- *Researcher:* Dr. Beatrice Amico
Project Title: "Design and Implementation of a Data Warehouse System and Data and Process Analysis for the Integrated Management of Chemical, Biological, and Genetic Data to Support Biodiversity Research"
 01/11/2022 - 31/05/2025

Scientific Responsibility of **Research Fellowships**

- *Research Fellow:* Dr. Daniel Amadori
Project Title: "Impact of Time-Varying Parameters on the Size Distribution of Molecules in Chemical Processes: Modeling and Analysis"
 03/10/2025 - 05/06/2026 (8 months)
- *Research Fellow:* Dr. Sandro Bernardinello
Project Title: "Development of an Algorithm for OCR Data Integration with NLP Pipelines"
 08/05/2023 - 31/12/2023 (8 months)
- *Research Fellow:* Dr. Emanuele Chini
Project Title: "Development of an Algorithm for OCR Data Integration with NLP Pipelines"
 08/05/2023 - 31/10/2023 (6 months)
- *Research Fellow:* Dr. Sandro Bernardinello
Project Title: "Heterogeneous Data Integration for Structured Natural Language Processing"
 18/04/2022 - 18/10/2022 (6 months)
- *Research Fellow:* Dr. Federico Gozzi
Project Title: "Detection, Classification, and Integration of User Data from Heterogeneous Sources in CRM Systems"
 20/12/2021 - 31/05/2022 (5 months)
- *Research Fellow:* Dr. Sandro Bernardinello
Project Title: "Semantic Classification of Short Texts"
 03/08/2020 - 31/10/2020 (3 months)
- *Research Fellow:* Davide De Toffol
Project Title: "A Distributed Docker/Kubernetes Architecture for Data Mining and Machine Learning Tasks"
 04/05/2020 - 31/08/2020 (4 months)
- *Research Fellow:* Dr. Sandro Bernardinello
Project Title: "Text Classification of Complex Texts"
 15/01/2020 - 15/04/2020 (3 months)
- *Research Fellow:* Dr. Marco Colognese
Project Title: "Behavior-Based Classification and Prediction of CRM Customers"
 01/12/2019 - 30/04/2020 (5 months)
- *Research Fellow:* Dr. Mattia Rossini
Project Title: "Temporal Analysis for Predictive CRM Customer Behavior"
 01/12/2019 - 30/04/2020 (5 months)

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- *Research Fellow:* Dr. Federico Andreoli
Project Title: "Text Mining for Ticket Routing in CRM Software"
 01/08/2019 - 31/10/2019 (3 months)

Supervision of **Master's Theses**

As **Supervisor:**

- 2025/2026 ○ *Student:* Andrea Toffaletti
Title: GPT for tutoring.
 Master's Degree in Computer Science and Engineering - University of Verona
- 2024/2025 ○ *Student:* Daniel Amadori
Title: Explaining Strategies for Expected Impacts.
 Master's Degree in Computer Science - University of Verona
- *Student:* Nicola Febbrari
Title: CGMSim: Un simulatore di paziente diabetico T1.
 Master's Degree in Computer Science and Engineering - University of Verona
- 2023/2024 ○ *Student:* Lorenzo Antonio Mendo
Title: Making sense of Polluted Environments via Custom Association Rules.
 Master's Degree in Medical Bioinformatics - University of Verona
- *Student:* Andrea Simonetti
Title: Reactive Synthesis for Expected Impacts.
 Master's Degree in Computer Science and Engineering - University of Verona
- 2022/2023 ○ *Student:* Alberto Carli
Title: An A-Priori Algorithm for Extracting Timeline-based Patterns.
 Master's Degree in Computer Science and Engineering - University of Verona
- 2021/2022 ○ *Student:* Federico Gozzi
Title: OLAP and Data Mining Techniques for Analyzing Wearable-related Data
 Master's Degree in Computer Science and Engineering - University of Verona
- 2020/2021 ○ *Student:* Manuel Medina
Title: Conformal Prediction of Sepsis Scores in the MIMIC-III Database
 Master's Degree in Medical Bioinformatics - University of Verona
- 2019/2020 ○ *Student:* Davide De Toffol
Title: Reduced Distributed Decision Diagrams for Querying Solution Spaces
 Master's Degree in Medical Bioinformatics - University of Verona
- *Student:* Lara Scarpari
Title: Ensemble Methods for Classifying Short Texts
 Master's Degree in Computer Science and Engineering - University of Verona
- 2018/2019 ○ *Student:* Marco Colognese
Title: From Data to Processes: Behavior-based Classification of CRM Customers
 Master's Degree in Computer Science and Engineering - University of Verona

As **Co-Supervisor:**

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- 2014/2015 ○ *Student:* Matteo Cuccato
Title: A Framework for Extracting Approximate Temporal Functional Dependencies: Architecture and Application in the Clinical Domain
 Master's Degree in Computer Science and Engineering - University of Verona
 Supervisor: Prof. Carlo Combi
- 2013/2014 ○ *Student:* Marco Pazzaglia
Title: Metric Propositional Neighborhood Logic with an Equivalence Relation
 Master's Degree in Computer Science - University of Udine
 Supervisor: Prof. Angelo Montanari
- *Student:* Andrea Galvani
Title: Mining Algorithms for Approximate Temporal Functional Dependencies: Pure temporally evolving ATFDs applied to healthcare data
 Master's Degree in Computer Science and Engineering - University of Verona
 Supervisor: Prof. Carlo Combi
- *Student:* Marco Pagliarini
Title: Algorithms for Mining Interval-Based Temporal Functional Dependencies - The Case of Relation During
 Master's Degree in Computer Science and Engineering - University of Verona
 Supervisor: Prof. Carlo Combi
- *Student:* Matteo Mantovani
Title: Temporal Data Mining Techniques: Discovering approximate temporal functional dependencies based on sliding windows in healthcare data warehouses
 Master's Degree in Computer Science and Engineering - University of Verona
 Supervisor: Prof. Carlo Combi
- 2012/2013 ○ *Student:* Marco Baciga
Title: Design and Implementation of a Data Mart to support the analysis of drug expenditure within the healthcare Veneto regional system
 Master's Degree in Computer Science and Engineering - University of Verona
 Supervisor: Prof. Carlo Combi
- 2011/2012 ○ *Student:* Paolo Parise
Title: Approximate Temporal Functional Dependencies Based on Temporal Grouping: Modeling, derivation, and initial evaluations on psychiatric data
 Master's Degree in Computer Science and Engineering - University of Verona
 Supervisor: Prof. Carlo Combi
- 2008/2009 ○ *Student:* Tommaso D'Odorico
Title: Modal Logics for Spatial Reasoning
 Master's Degree in Computer Science - University of Udine
 Supervisor: Prof. Angelo Montanari

Participation in Department Councils, Teaching Committees, and Doctoral Committees

As **Member of the Examining Committee:**

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- 06-07/2022 Selection for the 38th cycle of the Ph.D. Program in Computer Science, Department of Computer Science, University of Verona
- 07-09/2022 Selection for the 38th cycle of the Ph.D. Program in Artificial Intelligence for Industry 4.0, Politecnico di Torino

As Member of the Council:

- **Teaching Committee of the National Ph.D. Program in Artificial Intelligence - Industry 4.0 Area**
Institution: Politecnico di Torino
Academic Years: from 2021/2022 to present
- **Teaching Committee of Computer Science** University of Verona
Institution: Department of Computer Science, University of Verona
Academic Years: from 2016/2017 to present
- **Council of the Department of Computer Science** University of Verona
Institution: Department of Computer Science, University of Verona
Academic Years: from 2016/2017 to present
- **Teaching Committee of the Ph.D. Program in Computer Science** University of Verona
Institution: Department of Computer Science, University of Verona
Academic Years:
 - from 2022/2023 to present, Cycles: 38-41
 - from 2018/2019 to 2020/2021, Cycles: 34-36

Responsibility Roles within Teaching Committees, Departments, and the University

- **Member of the Academic Senate**
Role: Representative of Associate Professors - Macroarea of Science and Engineering
Institution: University of Verona
Academic Years: from 2024/2025 to present
- **Member of the Board (Giunta) of the Department of Computer Science**
Role: Representative of Associate Professors in the Academic Senate
Institution: Department of Computer Science, University of Verona
Academic Years: from 2024/2025 to present
- **Student Affairs Coordinator** for the Master's Degree in Artificial Intelligence
Institution: Department of Computer Science, University of Verona
Academic Years: from 2022/2023 to 2024/2025
- **Erasmus Coordinator** for the Jena campus
Institution: Department of Computer Science, University of Verona
Academic Years: from 2022/2023 to 2024/2025
- **QA Commission** for the Master's Degree in Medical Bioinformatics
Role: Member
Institution: Department of Computer Science, University of Verona
Academic Years: from 2019/2020 to 2024/2025

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Commissioned Research

- 2023-2024 ○ **Development of an algorithm for OCR data integration with NLP pipeline**

Role: Scientific Coordinator

Type: Research contract

Funding Entity/Entities: Klondike srl Company

Funded Amount: 45,000 Euros

- **Development of algorithms to speed up the execution of digital process tasks (BPMN) through automation of individual tasks considered repetitive and/or low-value in terms of operator intervention**

Role: Scientific Coordinator

Type: Research contract

Funding Entity/Entities: Klondike srl Company

Funded Amount: 33,500 Euros

- 2021 **Heterogeneous Data Integration for Structured Natural Language Processing**

Role: Scientific Coordinator

Type: Research contract

Funding Entity/Entities: VTENEXT Company

Funded Amount: 10,000 Euros

- 2019 – 2020 **Machine Learning Techniques for Customer Behaviour Prediction**

Role: Scientific Coordinator

Type: Research contract

Funding Entity/Entities: CRM Village Company

Funded Amount: 36,000 Euros

National and International Projects

As **Scientific Coordinator:**

- 2019 – 2021 Data Mining Techniques and Model Checking for Customer Behavior Prediction

Funding Entity/Entities: European Regional Development Fund (POR-FESR) and CRM Village

Funded Amount: 76,500 Euros (POR-FESR) + 93,500 Euros (CRM Village)

- 2018 – 2019 Data Mining Techniques and Model Checking for Predicting Customer Behavior in Process-Driven CRM Systems

Type: Joint Project

Funding Entity/Entities: University of Verona and CRM Village

Funded Amount: 10,000 Euros (University of Verona) + 27,000 Euros (CRM Village)

As **Project Member:**

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- 2024 – 2027 “DigiSprayDrying”
 (Call ID F/350073/04/X60 - CUP B39J24000490005 - Innovation Agreements – MiSE Decree 31/12/2021)
Lead applicant: NEWCHEM S.p.A.
Partners: University of Verona (Department of Computer Science), University of Padova (Department of Industrial Engineering), University of Naples “Federico II” (Department of Pharmacy)
Total eligible cost: EUR 8,674,600.00 (total budget: EUR 9,104,287.50)
Verona unit share (Department of Computer Science): EUR 550,625.00
Verona unit: 7 staff members for a total of 14,125 hours (1,300 hours of high-level employed personnel, 3,825 hours of medium-level employed personnel and 9,000 hours of non-employed personnel), split over WP 5 and WP 7
Role: structured member of the Verona unit (high-level employed personnel) with the highest number of hours among the unit’s structured members
Funding Entity/Entities: Ministry of Enterprises and Made in Italy
Relevance: National
- 2022 – 2025 “National Biodiversity Future Center”
 (Call for “Public notice for submitting proposals for enhancing research structures and creating national R&D ‘samples’ on some Key Enabling Technologies to be financed under the National Recovery and Resilience Plan, Mission 4 Component 2 Investment 1.4 “Enhancing research structures and creating national R&D ‘samples’ on some Key Enabling Technologies”)
Spoke: 6
Coordinator: Prof. Flavia Guzzo
Funding Entity/Entities: European Union (NextGenerationEU)
Relevance: National
- 2020 Strategic Reasoning and Automatic Synthesis of Multi-Agent Systems
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National
- 2019 Formal Methods for Combined Verification Techniques
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National
- 2018 Formal Methods for Synthesis and Verification of Discrete and Hybrid Systems
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National
- 2017 High Performing Computational Models for Biomedical Information Extraction and Integration
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National
- 2016 Logic, Automata, and Games for Self-Adaptive Systems
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National
- 2015 Algorithms for Model Checking and Synthesis of Safety-Critical Systems
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National

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- 2014 Automata, Games, and Temporal Logics for Verification and Synthesis of Controllers in Safety-Critical Systems
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National
- 2013 Extended Game Logics
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National
- 2008 – 2012 Games for Design and Verification (GAMES)
Funding Entity/Entities: European Science Foundation
Relevance: International
- 2010 Logics, Automata, and Games for Formal Verification of Complex Systems
Funding Entity/Entities: GNCS National Group for Scientific Computing (INDAM)
Relevance: National

Patents

30/07/2020 **Platform and Method for Pluggable AI and Machine Learning Cataloguing and Prediction**

Patent Number: PCT/IT2020/000055

International Publication Number: WO 2022/003737 A1

Personal Role: Inventor

Brief Description: The patent describes a method and a CRM (Customer Relationship Management) system capable of automatically discovering established and hidden business processes by analyzing event flows within a company. The aim is to improve both internal business processes and customer-facing processes, for example, through the generation of BPMN format representations. The system is equipped with automatic classification tools to speed up the initiation of flows, categorization of objects, and decision support via AI modules for classification and, optionally, prediction. The solution is designed to reduce interpretive and human errors without requiring the intervention of a data scientist, providing a technical implementation that simplifies the comparison of AI systems without costly experimental processes.

Applications: The patent is applicable to the optimization of internal business processes and customer relationship management, improving operational efficiency and reducing analysis and decision-making times. With AI-supported automation, the system offers a significant advantage in selecting the most suitable AI system for CRM needs, enabling rapid and reliable implementations in diverse business contexts.

Spin-off

Since March 2018, Co-founder and Board Member of the Limited Liability Company “Innovative Start-up” **MedBrains Srl** (<https://www.medbrains.it/>, now the website of the MagiCoder Pro product).

The company primarily focuses, although not exclusively, on the development, production, and commercialization of innovative products and services with high technological value in the field of computer science, mainly but not limited to information systems in the medical and pharmaceutical sectors.

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Revenue during university spin-off period:

- 2018: 6,667 EUR
- 2019: 37,069 EUR
- 2020: 38,355 EUR
- 2021: 52,172 EUR
- 2022: 135,797 EUR
- 2023: 121,843 EUR

In 2023, MedBrains transitioned from a university spin-off to a fully-fledged company.

Recognition and Awards

2020 **Best Young Researcher in Theoretical Computer Science 2020**

Judging Commission: Giorgio Delzanno (University of Genoa), Emanuela Merelli (University of Camerino), Giuseppe Persiano (University of Salerno)

Association: Italian Chapter of the EATCS (European Association for Theoretical Computer Science)

2010 **Best Italian PhD Thesis in Theoretical Computer Science of the Year 2010**

Judging Commission: Paola Giannini (University of Eastern Piedmont), Giuseppe Persiano (University of Salerno), Alberto Policriti (University of Udine)

Association: Italian Chapter of the EATCS (European Association for Theoretical Computer Science)

Research Activities

Interval Temporal Logics — Decidability, Complexity, and Expressiveness:

My core and longest-running research line addresses the theory of interval temporal logics, particularly the Halpern and Shoham (HS) logic and its fragments, including Propositional Neighborhood Logic (PNL/MPNL) and logics based on Allen's interval relations. Starting from the development of general tableau methods and optimal decision procedures for propositional interval temporal logics over various linear order structures (dense, discrete, finite, rationals, integers, naturals, reals), my work led to a complete characterization of all decidable fragments of HS logic, precisely identifying the boundary between decidable and undecidable fragments and classifying the computational complexity of the decidable ones — ranging from NP-complete to non-primitive recursive. A further line of investigation analyzed the impact of enriching interval logics with equivalence relations and metric constraints: we showed that adding a single equivalence relation to the ABB logic preserves decidability over finite linear orders (though it becomes non-primitive recursive), while two or more equivalence relations make satisfiability undecidable even in the finite case. On the expressiveness side, we established inter-definability results among modalities, leading to a complete classification of fragments by expressive power. This body of work appeared at venues including LICS, STACS, ICALP, MFCS, ECAI, and in journals such as Information and Computation, Theoretical Computer Science, and the Journal of Logic and Computation.

Interval Temporal Logic — Model Checking:

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A systematic investigation of the model checking problem for HS fragments, carried out from 2016 to 2022. We identified the precise border between tractable and intractable fragments of HS for model checking, provided expressiveness comparisons between interval and point temporal logic model checking, and introduced the technique of track bisimilarity and prefix sampling. Key results include the classification of well-behaved HS fragments (reaching an almost-final picture), PNP-completeness results for specific Allen's relations, and a thorough study of satisfiability and model checking under the homogeneity assumption. The complexity landscape was mapped from the low levels of the polynomial time hierarchy up to PSPACE and beyond. This work appeared at ICALP, IJCAR, KR, FSTTCS, GandALF, and in journals including ACM Transactions on Computational Logic, Information and Computation, Theoretical Computer Science, and Logical Methods in Computer Science.

Temporal Logic of Prefixes, Infixes, and Suffixes:

A more recent theoretical thread investigating logics based on prefix, infix, and suffix interval relations, with a focus on the interplay between operator selection, homogeneity assumptions, and computational complexity. We established PSPACE-completeness for the temporal logic of sub-intervals and suffixes, EXPSpace-completeness when adding the Meets relation or temporal neighborhood to the logic of prefixes and infixes, and elementarity of the logic of prefixes and suffixes under the homogeneity assumption. A key connection was established between satisfiability and model checking for these fragments and the emptiness problem for star-free generalized regular expressions with negation, where the concatenation operator is replaced by prefix/suffix/infix operators. Results appeared at LICS, MFCS, TIME, GandALF, and in Information and Computation and Logical Methods in Computer Science.

Extended Omega-Regular Languages:

This line of research studies quantitative extensions of infinite regular languages — including bounded, unbounded, and infinitely recurring occurrences — and proposes their characterization through novel automata classes and regular expressions. We introduced ω T-regular expressions and counter-check automata as a unifying framework that goes beyond ω -regular and ω B-regular languages, and established a formal connection between these extended language classes and interval temporal logics. Results appeared at LATA, GandALF, ICTCS, and in Theoretical Computer Science.

Reactive Synthesis and Timeline-Based Planning:

This thread bridges temporal logic theory and automated reasoning for synthesis and planning problems. Starting with the formalization of interval-based synthesis, we traced the boundary between decidability and undecidability of the synthesis problem for interval logic specifications, showing that the synthesis problem is strictly harder than satisfiability and that expressiveness extensions quickly lead to undecidability. In the context of timeline-based planning, we identified large fragments where the plan existence problem maps to the non-emptiness of deterministic finite automata, and proposed novel automata-theoretic approaches that avoid determinization. More recently, the work extended to reactive synthesis for expected impacts: we developed BPMN+CPI, a formal extension of BPMN incorporating choices, probabilities, and impacts, and demonstrated that the problem of determining the existence of a winning strategy belongs to the PSPACE complexity class. We developed PACO, a software tool implementing synthesis techniques for BPMN+CPI. Results appeared at IJCAI, KR, LICS, JELIA, GandALF, and in Theoretical Computer Science.

Spatial Logic:

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A line of work on decidable spatial logics, including a decidable weakening of Compass Logic based on cone-shaped cardinal directions and decidable spatial generalizations of metric interval temporal logic. We developed tableau-based systems for spatial reasoning about directional relations. Results appeared at CSL, TABLEAUX, TIME, and in Logical Methods in Computer Science.

Temporal Data Mining in Databases:

A sustained applied research thread focusing on the formal specification, verification, and mining of temporal dependencies in databases. We introduced interval-based temporal functional dependencies, studied their complexity landscape (including approximate variants), and developed algorithms for mining temporal FDs and evolving association rules from clinical data. The framework was extended to handle multiple granularities, pure temporal grouping, and predictive dependencies on multi-temporal relations. Results appeared at TIME, SSTD, ICHI, ICDM Workshops, and in journals including Annals of Mathematics and Artificial Intelligence, Acta Informatica, Information and Computation, Fundamenta Informaticae, and Computers in Biology and Medicine.

Business Process Management:

Research on time-aware extensions to business process modeling: formal modeling of time-dependent paths in clinical BPMN processes, logical formalization of time-critical processes with resources, timeline-based customization of BPMN diagrams, and business process compliance verification with impact constraints. Results appeared at BPM Forum, SAC, TIME, and in Information Systems.

Healthcare AI and Machine Learning:

A growing applied research direction at the intersection of machine learning and healthcare. We developed TEDAR, an adaptive temporal method for detecting adverse drug reactions in collaboration with the Regional Pharmacovigilance Center of the Veneto Region. We proposed a framework for early sepsis prediction in intensive care, tested on the MIMIC-III database. More recently, we introduced novel interpretable approaches for healthcare time series: the Sequence-Walking Decision Tree for multivariate clinical data, TSRF-Dist (a time series distance based on extremely randomized canonical interval forests), and the Time Series Step Tree for prompt classification of time series. These works emphasize model interpretability and clinical applicability. Results appeared at ICHI, DIS, and in journals including Artificial Intelligence in Medicine and Data Mining and Knowledge Discovery.

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Direction of International Conferences and Symposia

As **Chair**:

- 2024 TIME 2024 - 31st International Symposium on Temporal Representation and Reasoning
<https://www.lirmm.fr/time2024/>
Programme Committee Chairs: Prof. Pietro Sala, Prof. Michael Sioutis, and Prof. Fusheng Wang
Montpellier, France
28/10/2024 - 30/10/2024

As **Organizational Chair**:

- 2013 GandALF 2013 - Fourth International Symposium on Games, Automata, Logics, and Formal Verification
Borca di Cadore, Dolomites, Italy
29/08/2013 - 31/08/2013

Participation in Editorial Committees of Journals

- 2024 – 2026 *Selected papers from TIME 2024, the 31st International Symposium on Temporal Representation and Reasoning*
Journal: Information and Computation (Elsevier, ISSN: 0890-5401)
Role: Executive Guest Editor
Co-Guest Editors: Michael Sioutis (University of Montpellier, France), Fusheng Wang (Stony Brook University, USA)
Type: Special Issue
Status: Closed, all accepted papers published

Invited Talks

- 16/09/2020 ICTCS 2020 - 21st Italian Conference on Theoretical Computer Science
14-16 September 2020, Ischia, Italy
Title: Interval-based Problems: Decidability and Complexity
- 12/09/2017 The 1st Summer School on formal methods for Cyber-Physical Systems.
12-16 September 2017, Verona, Italy
Title: Interval-based synthesis (invited lecture)
- 18/08/2014 ECAI 2014 - 21st European Conference on Artificial Intelligence
18-22 August 2014, Prague, Czech Republic
Title: Temporal Representation and Reasoning in Interval Temporal Logics (invited tutorial)
- 18/12/2010 SAKT 2010: colloquium on logic for temporal databases
18 December 2010, Bozen, Italy
Title: Temporal Functional Dependencies
- 16/09/2010 ICTCS 2010, 12th Italian Conference on Theoretical Computer Science
15-17 September 2010, Camerino, Italy
Title: Decidability of Interval Temporal logic

Program Committees of National and International Conferences and Symposia

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- 2027 AAAI 2027 - 41st Annual AAAI Conference on Artificial Intelligence, Montréal, Canada (16/02/2027 - 23/02/2027)
- 2026 ICAPS 2026; ISD 2026 - 34th International Conference on Information Systems Development, Prague, Czechia (02/09/2026 - 04/09/2026), <https://isd2026.ksi.fit.cvut.cz>
- 2025 AAAI 2025, Philadelphia, USA (25/02/2025 - 04/03/2025); IEEE ICHI 2025; GandALF 2025
- 2024 AAAI 2024, Vancouver, Canada (20/02/2024 - 27/02/2024); ICAPS 2024; TIME 2024; CILC 2024
- 2023 AAAI 2023, Washington, USA (07/02/2023 - 14/02/2023); TIME 2023
- 2021 CILC 2021
- 2020 ECAI 2020, Santiago de Compostela, Spain; IJCAI-PRICAI 2020, Yokohama, Japan; OVERLAY @ BOSK 2020, Bozen-Bolzano, Italy; CILC 2020
- 2019 IJCAI 2019, Macao, China; GandALF 2019, Bordeaux, France; OVERLAY @ AIxIA 2019, Rende, Italy; CILC 2019, Trieste, Italy
- 2018 CILC 2018, Bolzano, Italy; GandALF 2018, Saarbrücken, Germany
- 2017 ACM-BCB 2017, Boston, USA
- 2016 CILC 2016, Milano, Italy
- 2014 CILC 2014, Torino, Italy

--- Organization Committees of National and International Conferences and Symposia

- 2017 ○ CPS 2017 - The 1st Summer School on formal methods for Cyber-Physical Systems
Verona, Italy
12/09/2017 – 16/09/2017
- 2014 ○ ICHI 2014 - 2014 IEEE International Conference on Healthcare Informatics
Verona, Italy
15/09/2014 – 17/09/2014
- GandALF 2014 - Fifth International Symposium on Games, Automata, Logics and Formal Verification
Verona, Italy
10/09/2014 – 12/09/2014
- TIME 2014 - 21st International Symposium on Temporal Representation and Reasoning
Verona, Italy
08/09/2014 – 10/09/2014
- 2009 ○ GAMES 2009 - Annual Workshop of the ESF Networking Programme on Games for Design and Verification
Udine, Italy
14/09/2009 – 17/09/2009

--- Contributed Talks at National and International Conferences

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- 03/06/2024 12th IEEE International Conference on Healthcare Informatics, ICHI 2024, 3-6 June 2024, Orlando, USA.
Title: Sequence-Walking Decision Tree for Multivariate Healthcare Data.
Relevance: International
- 29/09/2021 28th International Symposium on Temporal Representation and Reasoning, TIME 2021, September 27-29, 2021, Klagenfurt, Austria.
Title: Pspace-Completeness of the Temporal Logic of Sub-Intervals and Suffixes
Relevance: International
- 21/09/2021 12th International Symposium on Games, Automata, Logics, and Formal Verification, GandALF 2021, Padua, Italy, 20-22 September 2021.
Title: Adding the Relation Meets to the Temporal Logic of Prefixes and Infixes makes it EXPSPACE-Complete.
Relevance: International
- 13/09/2021 22nd Italian Conference on Theoretical Computer Science, September 13-15, 2021, Bologna, Italy.
Title: Extended ω -Regular Languages and Interval Temporal Logic.
Relevance: National
- 11/08/2021 9th IEEE International Conference on Healthcare Informatics, ICHI 2021, August 9-12 2021, Victoria, BC, Canada.
Title: On the early detection of Sepsis in MIMIC-III.
Relevance: International
- 26/08/2020 45th International Symposium on Mathematical Foundations of Computer Science, MFCS 2020, August 24-28, 2020, Prague, Czech Republic.
Title: On a Temporal Logic of Prefixes and Infixes.
Relevance: International
- 18/10/2019 26th International Symposium on Temporal Representation and Reasoning, TIME 2019, 16-19 October 2019, Malaga, Spain.
Title: Customizing BPMN Diagrams Using Timelines.
Relevance: International
- 30/10/2018 16th International Conference on Principles of Knowledge Representation and Reasoning, KR 2018, 30 October - 2 November 2018, Tempe, Arizona.
Title: A Novel Automata-theoretic Approach to Timeline-based Planning
Relevance: International
- 11/09/2018 16th International Conference on Business Process Management, BPM 2018, 9-14 September 2018, Sydney, Australia.
Title: A Logical Formalization of Time-Critical Processes with Resources.
Relevance: International
- 04/04/2017 The 32nd ACM SIGAPP Symposium On Applied Computing, SAC 2017, 4-6 April 2017, Marrakech, Morocco
Title: Driving time-dependent paths in clinical BPMN processes.
Relevance: International
- 24/09/2015 22nd International Symposium on Temporal Representation and Reasoning, TIME 2015, 23-25 September 2015, Kassel, Germany.
Title: The Price of Evolution in Temporal Databases.
Relevance: International

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- 11/09/2014 5th International Symposium on Games, Automata, Logics, and Formal Verification, GandALF 2014, 10-12 September 2014, Verona, Italy.
Title: Interval-based Synthesis
Relevance: International
- 09/09/2014 21st International Symposium on Temporal Representation and Reasoning, TIME 2014, 8-10 September 2014, Verona, Italy.
Title: Metric Propositional Neighborhood Logic with an Equivalence Relation
Relevance: International
- 08/09/2014 21st International Symposium on Temporal Representation and Reasoning, TIME 2014, 8-10 September 2014, Verona, Italy.
Title: Approximate Interval-Based Temporal Dependencies: The Complexity Landscape
Relevance: International
- 26/08/2014 39th International Symposium on Mathematical Foundations of Computer Science, MFCS 2014, 25-29 August 2014, Budapest.
Title: Decidability of the Interval Temporal Logic $A\bar{A}B\bar{B}$ over the Rationals.
Relevance: International
- 09/12/2013 13th International Conference on Data Mining Workshops, ICDM Workshops 2013, 7-10 December 2013, Dallas, USA.
Title: Mining Approximate Temporal Functional Dependencies Based on Pure Temporal Grouping.
Relevance: International
- 27/06/2013 28th Annual IEEE Symposium on LOGIC IN COMPUTER SCIENCE, LICS 2013, 25-28 June 2013, New Orleans, USA.
Title: Adding an Equivalence Relation to the Interval Logic ABB: Complexity and Expressiveness
Relevance: International
- 04/04/2013 7th International Conference on Language and Automata Theory and Applications, LATA 2013, April 2-5, 2013, Bilbao, Spain
Title: Interval Logics and ω B-Regular Languages
Relevance: International
- 12/09/2012 19th International Symposium on Temporal Representation and Reasoning, TIME 2012, 12-14 September 2012, Leicester, United Kingdom.
Title: An Optimal Tableau System for the Logic of Temporal Neighborhood over the Reals
Relevance: International
- 07/09/2012 3rd International Symposium on Games, Automata, Logics, and Formal Verification, GandALF 2012, 6-8 September 2012, Napoli, Italy
Title: Interval Temporal Logics over Strongly Discrete Linear Orders: the Complete Picture.
Relevance: International
- 30/08/2012 20th European Conference on Artificial Intelligence, ECAI 2012, 27-31 August 2012, Montpellier, France.
Title: Interval Temporal Logics over Finite Linear Orders: the Complete Picture
Relevance: International
- 12/09/2011 18th International Symposium on Temporal Representation and Reasoning, TIME 2011, 12 - 14 September 2011, Lübeck, Germany
Title: Temporal Functional Dependencies Based on Interval Relations.
Relevance: International

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- 24/08/2011 12th International Symposium on Spatial and Temporal Databases, SSTD 2011, 24 - 26 Aug 2011, Minneapolis, USA
Title: A Uniform Framework for Temporal Functional Dependencies with Multiple Granularities.
Relevance: International
- 07/07/2011 20th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods, Tableaux 2011, 4-8 July 2011, Bern, Switzerland
Title: Optimal Tableau Systems for Propositional Neighborhood Logic over All, Dense, and Discrete Linear Orders
Relevance: International
- 21/06/2011 26th Annual IEEE Symposium on LOGIC IN COMPUTER SCIENCE, LICS 2011, 21-24 June 2011, Toronto, Canada.
Title: What's Decidable about Halpern and Shoham's Interval Logic? The Maximal Fragment ABBL.
Relevance: International
- 16/06/2011 2nd International Symposium on Games, Automata, Logics, and Formal Verification, GandALF 2011, 15-17 June 2011, Minori, Italy
Title: An Optimal Decision Procedure for MPNL over the Integers.
Relevance: International
- 07/09/2010 17th International Symposium on Temporal Representation and Reasoning, TIME 2010, 6-8 September 2010, Paris, France
Title: Decidability of the Logics of the Reflexive Sub-interval and Super-interval Relations over Finite Linear Orders
Relevance: International
- 07/07/2010 International Colloquium on Automata, Languages and Programming, ICALP 2010, 5 - 12 July 2010, Bordeaux, France
Title: Maximal Decidable Fragments of Halpern and Shoham's Modal Logic of Intervals
Relevance: International
- 17/06/2010 First International Symposium on Games, Automata, Logics, and Formal Verification, GandALF 2010, 17-18 June 2010, Minori, Italy
Title: Begin, After, and Later: a Maximal Decidable Interval Temporal Logic
Relevance: International
- 04/03/2010 27th International Symposium on Theoretical Aspects of Computer Science, STACS 2010, 4-6 March 2010, Nancy, France.
Title: Decidability of the Interval Temporal Logic ABB over the Natural Numbers.
Relevance: International
- 18/06/2008 15th International Symposium on Temporal Representation and Reasoning, TIME 2008, 16 - 18 June 2008, Montréal, Canada
Title: An optimal tableau for Right Propositional Neighborhood Logic over Trees
Relevance: International
- 29/11/2007 Methods 4 modalities, 29-30 November 2007, Cachan, France
Title: Complete and Terminating Tableau for the Logic of Proper Subinterval Structures Over Dense Orderings.
Relevance: International

Reviewing Activities

Conference Reviewer:

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UAI 2026, ICAPS 2024/2026, CILC 2025, IEEE ICHI 2025, KDD 2024, CSL 2025, CiE 2018, CONCUR 2018, IJCAI 2018, ACM BCB 2017, PPDP 2016, HSCC 2015, LICS 2015, GandALF 2013, TIME 2013, TIME 2012, TIME 2010, JELIA 2008

Journal Reviewer:

- **Information and Computation** — 2018, 2021 (x2), 2022, 2023 (x2), 2024, 2025 (x4)
- **Information Systems** — 2020, 2021, 2022 (x2), 2024, 2025
- **Artificial Intelligence in Medicine** — 2022, 2024, 2025
- **Computers in Biology and Medicine** — 2024 (x2), 2025
- **Robotics and Autonomous Systems** — 2020, 2021, 2022
- **IEEE Access** — 2019, 2021, 2022, 2023
- **Logical Methods in Computer Science (LMCS)** — 2021
- **Journal of Computer and System Sciences (JCSS)** — 2023
- **Journal of Logical and Algebraic Methods in Programming** — 2024
- **Autonomous Agents and Multi-Agent Systems** — 2022
- **Theory and Practice of Logic Programming** — 2019
- **Science of Computer Programming** — 2019
- **Applied Mathematical Modelling** — 2019
- **Expert Systems with Applications** — 2022
- **Information and Software Technology** — 2025
- **Journal of Biomedical Informatics** — 2018

Publications

The publications are divided by type, and within each type, listed from the most recent to the oldest chronologically.

International Journals with Peer Review

- [j30] Alberto Azzari, Alessandro Boaro, Federica Basaldella, Sonia Nunes, Francesco Sala, Carlo Combi, Pietro Sala, Manuele Bicego. Detection and Early Detection of Pathological Motor Evoked Potentials: A Novel Approach for Intraoperative Neuromonitoring Assistance. *Journal of Healthcare Informatics Research*. 10(3): 596-626 (2026)
- [j29] Alberto Azzari, Andrea Cracco, Francesco Masillo, Pietro Sala. Algorithm 1061: tsdistances: A High-Performance Python Library for Time Series Distances with GPU Support. *ACM Trans. Math. Softw.* 52(1): 5:1-5:21 (2026)
- [j28] Alberto Azzari, Manuele Bicego, Carlo Combi, Andrea Cracco, Pietro Sala. TSRF-Dist: a novel time series distance based on extremely randomized canonical interval forests. *Data Min. Knowl. Discov.* 39(3): 27 (2025)
- [j27] Tewabe Chekole Workneh, Pietro Sala, Romeo Rizzi, Matteo Cristani. Business Process Compliance with impact constraints. *Information Systems*. 129: 102505 (2025).
- [j26] Beatrice Amico, Carlo Combi, Romeo Rizzi, Pietro Sala. Predictive mining of multi-temporal relations. *Information and Computation*. 301: 105228 (2024)
- [j25] Laura Bozzelli, Angelo Montanari, Adriano Peron, Pietro Sala. The addition of temporal neighborhood makes the logic of prefixes and sub-intervals EXPSPACE-complete. *Logical Methods in Computer Science*. 20(1) (2024)
- [j24] Laura Bozzelli, Angelo Montanari, Adriano Peron, Pietro Sala. Pspace-completeness of the temporal logic of sub-intervals and suffixes. *Information and Computation*. 294: 105083 (2023)

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- [j23] Dario Della Monica, Angelo Montanari, Pietro Sala. An interval temporal logic characterization of extended ω -regular languages. *Theoretical Computer Science* 962: 113929 (2023)
- [j22] Laura Bozzelli, Alberto Molinari, Angelo Montanari, Adriano Peron, Pietro Sala. Satisfiability and Model Checking for the Logic of Sub-Intervals under the Homogeneity Assumption. *Logical Methods in Computer Science* 18(1) (2022)
- [j21] Angelo Montanari, Pietro Sala. Reactive synthesis from interval temporal logic specifications. *Theoretical Computer Science* 899: 48-79 (2022)
- [j20] Antonino Aparo, Pietro Sala, Vincenzo Bonnici, Rosalba Giugno. TEDAR: Temporal dynamic signal detection of adverse reactions. *Artificial Intelligence in Medicine*. 122: 102212 (2021).
- [j19] Carlo Combi, Romeo Rizzi, Pietro Sala. Checking Sets of Pure Evolving Association Rules. *Fundamenta Informaticae*. 178(4): 283-313 (2021).
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Public Engagement

20/05/2022 FAMILY HACK! Open Innovation Hackathon to improve processes in family services
Location: Leonardo da Vinci State Institute of Education - Cerea
Duration: 9 hours
Organizing Entity: Municipality of Legnago through a framework agreement with the Department of Computer Science of the University of Verona
Role: Mentor

I, Pietro Sala, born in Belluno on 08/05/1981, residing in Borca di Cadore, at Via Olivo Sala n. 130/E, tax code SLAPTR81E08A757B, declare that all the information provided in this curriculum vitae is true, in accordance with Article 46 and Article 47 of Presidential Decree 445/2000.

Verona, 11 September 2026

Signature

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