



Marcello Restelli

Curriculum Vitae

Date: March 11, 2024

Signature:

Education

- 2004 **PhD Degree in Information Engineering**, *Politecnico di Milano*, Milan, Italy.
Thesis: "A Multi-Agent Learning for Multi-Agent Systems", Advisor: Prof. Andrea Bonarini.
- 2000 **Laurea Degree in Computer Engineering**, *Politecnico di Milano*, Milan, Italy.
Thesis: "Architettura per la realizzazione di strategie cooperative adattative tra agenti autonomi eterogenei", Advisor: Prof. Andrea Bonarini.
- 1994 **High School Degree**, *Liceo Scientifico "Arturo Tosi"*, Busto Arsizio(VA), Italy.

Academic Life

National Habilitations

- since 2022 **Abilitazione scientifica, Sett. 09/H1–Sistemi di elaborazione delle informazioni**, *Full Professor (Prima Fascia)*.
- since 2016 **Abilitazione scientifica, Sett. 09/H1–Sistemi di elaborazione delle informazioni**, *Associate Professor (Seconda Fascia)*.

Academic Positions

- since 2019 **Associate Professor (Professore di seconda fascia)**, at the Department of Electronics, Information and Bioengineering of Politecnico di Milano, Milan, Italy.
- 2011-2019 **Assistant Professor (Ricercatore di ruolo confermato)**, at the Department of Electronics and Information of Politecnico di Milano, Milan, Italy.
- 2008-2011 **Assistant Professor (Ricercatore di ruolo)**, at the Department of Electronics and Information of Politecnico di Milano, Milan, Italy.
- 2006-2008 **Research Assistant**, *research program "Metodi e strumenti per il progetto di sistemi affidabili e per la progettazione cooperativa in ambienti distribuiti su rete"*, at the Department of Electronics and Information of Politecnico di Milano, Milan, Italy.
- 2005-2006 **Research Assistant**, *research program "Progettazione e realizzazione di un sistema basato su regole sfumate per il controllo di attuatori industriali"*, at the Department of Electronics and Information of Politecnico di Milano, Milan, Italy.

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☎ +39 329 9358325 • 📞 +39 02 2399 4015 • 📠 +39 02 2399 3411

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1/31

- 2004–2005 **Research Assistant**, *research program “Sviluppo di metodologie e strumenti per la costruzione di comunit’a di agenti fisici mobili e fissi, con riguardo particolare alla modellazione del mondo, alle architetture degli agenti e dell’agenzia e all’adattamento ad ambienti inattesi”*, at the Department of Electronics and Information of Politecnico di Milano, Milan, Italy.
- 2001–2004 **PhD Student**, *Information Engineering program*, at the Department of Electronics and Information of Politecnico di Milano, Milan, Italy.
- 2000 **Research Assistant**, *research program “Sviluppo di metodologie per la localizzazione di robot mobili”*, at the Dipartimento di Informatica Sistemica e Comunicazione of Università degli Studi di Milano - Bicocca, Milan, Italy.

Academic Roles and Affiliations

- 2014–2019 **Member of “Commissione Selezione Bandi Didattica Integrativa”**, for the Computer Science and Engineering track of Politecnico di Milano.
- 2013–2019 **Member of “Giunta di Dipartimento”**, Department of Electronics, Information and Bioengineering of Politecnico di Milano.
- since 2001 **Member of the Artificial Intelligence and Robotics lab**, Department of Electronics, Information and Bioengineering of Politecnico di Milano.

Honors, Awards, Grants

- 2020 **ICML Outstanding Paper Award**, (*10 awards out of 5630 submissions*).
- 2019 **NeurIPS Reviewer Award**, (*400 awards out of 4543 reviewers*).
- 2018 **NeurIPS Oral Paper**, (*30 oral presentations out of 4856 submissions*).
- 2017 **NVIDIA GPU Grant**, *Titan Xp*, NVIDIA corporation.
- 2017 **NVIDIA Hardware Grant**, *Tesla K40*, NVIDIA corporation.
- 2013 **NeurIPS Reviewer Award**, (*100 awards out of 1120 reviewers*).
- 2001 **PhD Scholarship**, *granted by the Italian Ministry of Education, University and Research*, Politecnico di Milano, Milan, Italy.

Summary of the Scientific Production

Scientific Productivity

Number of publications **203 publications**

188 entries on Scopus

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2/31

International Journals **42 publications**

17 SCIMAGO Q1 - Artificial Intelligence publications
Journal of Machine Learning Research, Machine Learning, Artificial Intelligence, Journal of Artificial Intelligence Research, Fuzzy Sets and Systems, IEEE Transactions on Neural Networks and Learning Systems, Expert Systems with Applications

4 SCIMAGO Q1 - Software publications
International Journal of Approximate Reasoning, IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics, IEEE Transactions on Cybernetics

other 9 SCIMAGO Q1 publications
Robotics and Autonomous Systems, IEEE Transactions on Intelligent Transportation Systems, Journal of Energy Storage, Water Resources Research, Cancers, Clinical Lung Cancer

International Conferences **161 publications**

68 A++ publications
International Conference of Machine Learning (ICML), Neural Information and Processing Systems (NeurIPS), AAAI Conference on Artificial Intelligence (AAAI), International Joint Conference on Artificial Intelligence (IJCAI), International Conference on Learning Representations (ICLR), ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), International World Wide Web Conference (WWW)

8 A+ publications
International Conference on Artificial Intelligence and Statistics (AISTATS), IEEE/RJS International Conference on Intelligent Robots and Systems (IROS)

Publication Impact (02/2024)

Google Scholar h-index: 41 citations: 5271

Scopus h-index: 27 citations: 2373

Teaching Activity

Lecturer

2022,2024 **Lecturer and coordinator**, PhD course “Reinforcement Learning” (10 out of 25 hours), for the Information Technology program, Scuola di Ingegneria Industriale e dell’Informazione, Politecnico di Milano - Campus Leonardo.

2020 **Lecturer and coordinator**, PhD course “Reinforcement Learning” (15 hours), for the Computer Science degree, Gran Sasso Science Institute- L’Aquila.

2020, 2021, 2022, 2023 **Co-Lecturer**, “Machine Learning and Natural Language Processing”, for Master in FINTECH, School of Management - Politecnico di Milano.

2019 **Lecturer**, “Reinforcement Learning”, for Master in Artificial Intelligence, CEFRIEL.

2019 **Lecturer and coordinator**, PhD course “Introduction to Machine Learning” (15 hours), for the Computer Science degree, Gran Sasso Science Institute - L’Aquila.

2019 **Co-Lecturer**, PhD course “Machine Learning for Finance” (15 hours), for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell’Informazione, Politecnico di Milano - Campus Leonardo.

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3/31

- 2019, 2020, **Lecturer and coordinator**, *Laurea course "Informatica" (8 ECTS)*, for the Civil Engineering degree, Scuola di Ingegneria Civile, Ambientale e Territoriale, Politecnico di Milano - Campus Leonardo.
- 2021, 2022, 2023
- 2016, 2017, **Lecturer and coordinator**, *Laurea Specialistica course "Information Retrieval and Data Mining" (5 ECTS)*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Polo Regionale di Como.
- 2018, 2019
- 2015, 2016, **Lecturer and coordinator**, *Laurea Specialistica course "Machine Learning" (5 ECTS)*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Campus Leonardo.
- 2017, 2018, 2019, 2020, 2021, 2022, 2023
- 2012, 2014 **Lecturer and coordinator**, *PhD course "Reinforcement Learning" (20 hours)*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Campus Leonardo.
- 2006, 2007, **Lecturer and coordinator**, *Laurea Specialistica course "Robotics" (5 ECTS)*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Polo Regionale di Como.
- 2008, 2009, 2010, 2011, 2012
- 2008, 2009 **Lecturer and coordinator**, *Laurea course "Progetto di Robotica (2.5 ECTS)"*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Campus Leonardo.
- 2008 **Lecturer and coordinator**, *Laurea course "Progetto di Ingegneria Informatica (2.5 ECTS)"*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Campus Leonardo.
- 2007 **Lecturer and coordinator**, *Laurea course "Informatica 3" (5 ECTS)*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Campus Leonardo.
- 2004, 2005 **Lecturer and coordinator**, *Laurea Specialistica course "Laboratorio di Intelligenza Artificiale e Robotica (5 ECTS)"*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Campus Leonardo.
- 2003, 2004, **Lecturer and coordinator**, *Laurea course "Progetto di Informatica Industriale (2.5 ECTS)"*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Campus Leonardo.
- 2005

Teaching Assistant

- since 2015 **Teaching Assistant**, *Laurea Specialistica course "Artificial Intelligence"*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Campus Leonardo.
- 2013 – 2017 **Teaching Assistant**, *Laurea Specialistica course "Internet Monetization"*, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell'Informazione, Politecnico di Milano - Polo Regionale di Como.
- 2001 – 2015 **Teaching Assistant**, *Laurea course "Informatica"*, for the Environmental Engineering degree, Facoltà di Ingegneria Civile, Ambientale e Territoriale, Politecnico di Milano - Campus Leonardo.

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2013 – 2015 **Teaching Assistant**, course “Robotics”, for the Computer Engineering degree, Scuola di Ingegneria Industriale e dell’Informazione, Politecnico di Milano - Campus Leonardo.

Other Teaching Activities

2013 – 2015 **Tutor**, Laurea course “Informatica”, for the Environmental Engineering degree, Facoltà di Ingegneria Civile, Ambientale e Territoriale, Politecnico di Milano - Campus Leonardo.

2006 **Invited Seminar**, course “Intelligenza artificiale e Robotica”, for the “Sapere a tutto campo” program, Università Bocconi.

2000 **Tutor**, Laurea course “Architetture degli Elaboratori”, for the Computer science degree, Università degli Studi di Milano - Bicocca.

Supervision of Master’s and PhD Students

Honors and Awards

2022 **Andrea Tirinzoni**, 2021 AIxIA honorable mention for his PhD thesis.

2021 **Alberto Maria Metelli**, 2021 AIxIA award for the best PhD thesis.

2021 **Riccardo Poiani**, 2021 AIxIA honorable mention for his MSc thesis.

2019 **Mirco Mutti**, 2019 AIxIA award for the best MSc thesis.

2018 **Alberto Maria Metelli**, 2018 AIxIA award for the best MSc thesis.

2016 **Matteo Pirota**, Honorable mention for the EurAI Distinguished Dissertation Award 2015 for his PhD Thesis.

2016 **Matteo Pirota**, Prize for Engineering and Technology from the Dimitri N. Chorafas Foundation for his PhD thesis.

2014 **Daniele Calandriello**, 2014 AIxIA award for the best MSc thesis.

2013 **Alessio Pecorino e Matteo Pirota**, 2013 AIxIA honorable mention for their MSc thesis.

PhD Students

since 2023 **Giovanni Dispoto**, working on Reinforcement Learning in Finance.

since 2023 **Gianvito Losapio**, working on Reinforcement Learning in real-world networks.

since 2022 **Davide Maran**, working on Representation Learning for Reinforcement Learning.

since 2022 **Vincenzo De Paola**, working on Concurrent Exploration in Reinforcement Learning.

since 2022 **Gianmarco Tedeschi**, working on Reinforcement Learning for Industry 4.0.

since 2022 **Davide Salaorni**, Co-Advised with Prof. Francesco Trovó, working on Reinforcement Learning for smart grids.

since 2022 **Riccardo Zamboni**, working on Distributed Reinforcement Learning.

since 2021 **Paolo Bonetti**, working on Machine Learning techniques applied to the detection of extreme climate events.

since 2021 **Luca Carminati**, Co-Advised with Prof. Nicola Gatti, working on AI systems with adjustable autonomy.

since 2021 **Gianluca Drappo**, working on Hierarchical multi-agent reinforcement learning.

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- since 2021 **Riccardo Poiani**, working on Lifelong Reinforcement Learning.
- since 2021 **Alessio Russo**, working on techniques for the monitoring and retraining of machine learning models.
- since 2020 **Julen Cestero**, working on applying Reinforcement Learning techniques to logistic applications.
- since 2020 **Marco Mussi**, working on machine learning techniques for advertising and pricing.
- since 2019 **Amarildo Likmeta**, working on Online Stochastic PLanning.
- 2019-2022 **Lorenzo Moro**, *Co-Advised with Prof. Enrico Prati*, working on Artificial Intelligence for Telecommunications with Quantum Computing.
- 2019-2022 **Pierre Liotet**, working on Reinforcement Learning in Partial Observable, Non-stationary Domains.
- 2019-2023 **Luca Sabbioni**, working on Meta Reinforcement Learning.
- 2018-2022 **Mirco Mutti**, working on Intrinsically Motivated Reinforcement Learning.
- 2018-2021 **Edoardo Vittori**, "Augmenting Traders with Learning Machines".
- 2018-2021 **Lorenzo Bisi**, "Risk-averse Algorithms for Reinforcement Learning".
- 2017-2020 **Alberto Maria Metelli**, "Exploiting Environment Configurability in Reinforcement Learning", post-doc researcher at Politecnico di Milano.
- 2017-2020 **Matteo Papini**, "Safe Policy Optimization", post-doc researcher at Universitat Pompeu Fabra.
- 2017-2020 **Giorgia Ramponi**, "Challenges and opportunities in mutli-agent reinforcement learning", post-doc researcher at ETH AI Center.
- 2017-2020 **Andrea Tirinzoni**, "Exploiting Structure for Transfer in Reinforcement Learning", post-doc researcher at INRIA-Lille.
- 2015 – 2018 **Carlo D’Eramo**, "On the exploitation of uncertainty to improve Bellman updates and exploration in Reinforcement Learning", post-doc researcher at TU-Darmstadt.
- 2014 – 2018 **Davide Tateo**, *Co-Advised with Prof. Andrea Bonarini*, "Building structured hierarchical agents", post-doc researcher at TU-Darmstadt.
- 2012-2015 **Matteo Pirota**, *Co-Advised with Prof. Luca Bascetta*, "Reinforcement Learning: from Theory to Algorithms", Research scientist at Facebook AI Research.
- 2005-2009 **Enrique Munoz de Cote**, *Co-Advised with Prof. Andrea Bonarini*, "Socially Driven Multiagent Learning", Senior Machine Learning Scientist at PROWLER.io, Cambridge, UK.
- 2005-2008 **Alessandro Lazaric**, *Co-Advised with Prof. Andrea Bonarini*, "Knowledge Transfer in Reinforcement Learning", Research scientist at Facebook AI Research.

Master's Students

since 2001 **I have supervised more than 300 master's theses.**

Scientific Activities

Editorial Activities for International Journals

2022-2023 **Guest Editor**, *Machine Learning*, Journal Track @ ECML-PKDD 2023.

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- since 2022 **Action Editor**, *Transactions on Machine Learning Research (TMLR)*.
- since 2020 **Editorial Board Reviewer**, *Journal of Machine Learning Research (JMLR)*, Microtome Publishing.
- since 2016 **Editorial Board Member**, *Intelligenza Artificiale*, IOS Press.
- General Chair**
- 2022 **European Workshop on Reinforcement Learning (EWRL)**.
- Publication Chair**
- 2020 **International Conference on Artificial Intelligence and Statistics (AISTATS)**.
- International Conference Area Chair**
- 2020, 2021, 2022, 2023 **International Conference on Machine Learning (ICML)**.
- 2021, 2022, 2023 **International Conference on Artificial Intelligence and Statistics (AISTATS)**.
- 2021, 2022, 2023, 2024 **International Conference on Learning Representations (ICLR)**.
- 2020, 2021, 2022, 2023 **Advances in Neural Information and Processing (NeurIPS)**.
- International Conference Senior Program Committee Member**
- 2021, 2022 **AAAI Conference on Artificial Intelligence (AAAI)**.
- 2020 **European Conference on Artificial Intelligence (ECAI)**.
- 2017, 2019, 2020, 2021 **International Joint Conference on Artificial Intelligence (IJCAI)**.
- International Conference Program Committee Member**
- 2019 **International Conference on Machine Learning (ICML)**.
- 2012, 2016–2019 **AAAI Conference on Artificial Intelligence (AAAI)**.
- 2013 – 2016, 2019 **Advances in Neural Information and Processing (NeurIPS)**.
- 2013–2016 **International Joint Conference on Artificial Intelligence (IJCAI)**.
- 2016, 2017 **International Conference on Agents and Artificial Intelligence (ICAART)**.
- 2007, 2008, 2013, 2015 **IEEE International Conference on Robotics and Automation (ICRA)**.
- 2015, 2016 **European Workshop on Reinforcement Learning (EWRL)**.
- 2013, 2014 **IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)**.
- 2011 **International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS)**.
- 2008, 2010, 2012 **International Workshop on Evolutionary and Reinforcement Learning for Autonomous Robot Systems (ERLARS)**.

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- 2005-2010 **Annual RoboCup International Symposium.**
 Reviewer for International Journals and Magazines
Annals of Operation Research.
Engineering Applications of Artificial Intelligence.
Fuzzy Sets and Systems.
IEEE Computational Intelligence Magazine.
IEEE Transactions on Automation Science and Engineering.
IEEE Transactions on Computational Intelligence and AI in Games.
IEEE Transactions on Mechatronics.
IEEE Transactions on Neural Networks and Learning Systems.
IEEE Transactions on Vehicular Technology.
International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems.
Journal of Artificial Intelligence Research.
Journal of Autonomous Agents and Multi-Agent Systems.
Journal of Hydroinformatics.
Journal of Machine Learning Research.
Journal of Water Resources Planning and Management.
Machine Learning Journal.
Neurocomputing.
Robotics and Autonomous Systems.
Swarm Intelligence.
 Session Chair and Co-Chair
- 2022 **ICAIF 2022**, *Session on "Market Making / Portfolio Selection"*, Third International Conference on Artificial Intelligence in Finance, New York, USA.
- 2022 **NeurIPS 2022**, *Session on "Reinforcement Learning"*, Thirty-sixth Conference on Neural Information Processing Systems, Baltimore, USA.
- 2021 **IJCAI 2021**, *Session on "Application of Reinforcement Learning"*, 2021 International Joint Conference on Artificial Intelligence (IJCAI), Virtual.
- 2020 **NeurIPS 2020**, *Session on "Application of Reinforcement Learning"*, 2020 Advances in Neural Information and Processing (NeurIPS), Virtual.
- 2011 **ADPRL 2011**, *Session on "Application of Reinforcement Learning"*, 2011 IEEE Symposium on Adaptive Dynamic Programming and Reinforcement Learning, Paris, France.
- 2005 **ICRA 2005**, *Session on "Contact Force Dynamics and Control"*, 2005 IEEE International Conference on Robotics and Automation, Barcelona, Spain.
- 2005 **ICRA 2005**, *Session on "Sensors"*, 2005 IEEE International Conference on Robotics and Automation, Barcelona, Spain.

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8/31

2004 **IROS 2004**, *Session on "Sensing Devices and Principles in Localization"*, 2004 IEEE/RSJ International Conference on Intelligent Robots and Systems, Sendai, Japan.

Plenary and Technical Talks

- 2022 **Plenary Talk**, "*Policy Optimization via Importance Sampling*", Conference on Reinforcement Learning, Dresden (DE).
- 2021 **Technical Talk**, "*Macchine che apprendono*", trainING organized by Ordine degli Ingegneri della Provincia di Varese, Online.
- 2020 **Plenary Talk**, "*Safe Policy Search*", Workshop on Learning, Algorithms, and Networks, Turin (IT).
- 2020 **Technical Talk**, "*Macchine che apprendono*", webinar "Intelligenza Artificial + Mondo Legale" organized by Avvocato 360, Online.
- 2019 **Technical Talk**, "*Da Macchine che Fanno a Macchine che Imparano a Fare*", Arrow Customer Day, Riccione (IT).
- 2019 **Technical Talk**, "*Artificial Intelligence*", Workshop on Artificial Intelligence organized by BOSCH, Turin (IT).
- 2018 **Technical Talk**, "*IoT meets AI*", Workshop on Mobile Smart Home organized by Osservatorio Internet of Things, Milan (IT).

Projects and Funding

Research Projects

- 2023-2028 **Investigator**, *iBeCHANGE*, (Horizon Europe), 631.660€.
- 2023-2027 **Principal Investigator**, *AI4REALNET*, (Horizon Europe), 456.250€.
- 2022-2027 **Investigator**, *I3LUNG*, (Horizon Europe), 634.627€.
- 2021-2025 **WP Leader**, *CLINT*, (HORIZON 2020), 301.000€.
- 2017-2019 **Principal Investigator**, *TOTAL EFFICIENCY 4.0*, (POR FESR), 165.000€.
- 2014-2015 **Investigator**, *PROACTIVE - PROtezione del territorio con infrAstrutture iCT avanzate, clttadinanza attiva, e rEti sociali*, (POR FESR).
- 2012-2013 **Investigator**, *FIDELIO - Flxtureless DEburring of wheelS by human demonstratIOn*, (EU Project).
- 2004-2006 **Investigator**, *MEPOS: Optical measurement of position and size of wood panels for intelligent automation of sanding machines*, (EU Project).
- 2003-2005 **Investigator**, *MADSys: Multi-Agent Development System*, (MURST).

Industrial Projects and Contracts

- 2023 **Coordinator and Principal Investigator**, *Algorithmic trading*, Banca Intesa, 14 months, 75,000€ + VAT.
- 2023 **Coordinator and Principal Investigator (with A.M. Metelli)**, *Development of reinforcement learning algorithms for the control of industrial compressors*, Nuovo Pignone Tecnologie s.r.l., 9 months, 62,000€ + VAT.

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9/31

- 2023 **Coordinator (with N. Gatti)**, *Gas Demand Forecast Models*, Snam S.p.A., 3 months, 24,500€ + VAT.
- 2023 **Coordinator (with N. Gatti)**, *Gas network regulation and forecasting*, Snam S.p.A., 3 months, 20,000€ + VAT.
- 2023 **Coordinator (with N. Gatti)**, *AI for Spatial Estimation of Commercial Interest*, Vehnta s.r.l., 5 months, 30,000€ + VAT.
- 2023 **Coordinator (with N. Gatti)**, *Auction Design for Bus Selling and Trading*, Basco, 5 months, 13,000€ + VAT.
- 2023 **Coordinator (with N. Gatti)**, *AI applied to some activities of the Order*, Ordine dei Farmacisti di Milano, Lodi, Monza Brianza, 12 months, 60,000€ + VAT.
- 2022 **Coordinator (with N. Gatti)**, *Voice Recognition*, Terranova s.r.l., 15 months, 19,600€ + VAT.
- 2022 **Coordinator and Principal Investigator**, *Models for fault diagnosis in photovoltaic systems*, RSE, 24 months, 70,000€ + VAT.
- 2022 **Coordinator and Principal Investigator**, *Algorithmic trading*, Banca Intesa, 9 months, 150,000€ + VAT.
- 2021 **Coordinator and Principal Investigator**, *Reinforcement learning for Industry 4.0*, Siemens Aktiengesellschaft Oesterreich, 36 months, 170,000€.
- 2021 **Coordinator and Principal Investigator (with N. Gatti)**, *Machine learning for aircraft autonomy*, Leonardo S.p.A., 40 months, 250,000€ + VAT.
- 2021 **Coordinator and Principal Investigator**, *PID controller tuning using Reinforcement Learning*, Nuovo Pignone Tecnologie s.r.l., 8 months, 40,000€ + VAT.
- 2021 **Coordinator and Principal Investigator**, *Algorithmic trading*, Banca Intesa, 9 months, 150,000€ + VAT.
- 2020 **Coordinator and Principal Investigator**, *Reinforcement Learning Techniques for Developing Artificial Test Drivers on a F1 Simulator*, Ferrari, 12 months, 80,000€ + VAT.
- 2020 **Coordinator and Principal Investigator (with N. Gatti and F. Trovò)**, *Life-Cycle-Management and Optimization of machine learning algorithms in real-time biddings*, ML cube srl, 24 months, 84,000€ + VAT.
- 2020 **Coordinator and Principal Investigator**, *Development of machine learning algorithms for photovoltaic fault diagnosis*, RSE, 12 months, 35,000€ + VAT.
- 2020 **Coordinator and Principal Investigator (with F. Trovò)**, *Development of machine learning algorithms for diagnostics on lithium-ion batteries*, RSE, 12 months, 35,000€ + VAT.
- 2019 **Coordinator and Principal Investigator (with E. Amaldi)**, *Optimization and Artificial Intelligence Algorithms for the Paxmile last mile delivery system*, Paxmile S.r.l., 8 months, 50,000€ + VAT.
- 2019 **Coordinator and Principal Investigator**, *Development of machine learning algorithms for diagnostics on lithium-ion batteries*, RSE, 12 months, 35,000€ + VAT.

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10/31

- 2019 **Coordinator and Principal Investigator**, *Improving Machine Learning Techniques for Aerodynamics Performance Optimization*, Ferrari, 12 months, 70,000€ + VAT.
- 2019 **Coordinator and Principal Investigator**, *Reinforcement learning for trading*, AGS, 6 months, 18,000€ + VAT.
- 2019 **Coordinator and Principal Investigator**, *Decision making based on reinforcement learning for automated driving*, Magneti Marelli, 12 months, 60,000€ + VAT.
- 2018 **Coordinator and Principal Investigator**, *Machine Learning Techniques for Aerodynamics Performance Optimization*, Ferrari, 12 months, 67,500€ + VAT.
- 2018 **Coordinator and Principal Investigator**, *Decision making based on reinforcement learning for automated driving*, Magneti Marelli, 12 months, 56,000€ + VAT.
- 2017 **Coordinator and Principal Investigator (with L. Ferrarini, M. Matteucci, L. Piroddi)**, *Big Data Analytics for NPT prediction and operational efficiency*, Eni S.p.A., 20 months, 250.000€ +VAT.
- 2017 **Coordinator and principal Investigator**, *Machine Learning for Tyre Wear Estimation*, Pirelli S.p.A., 3 months, 30,000€ + VAT.
- 2016 **Coordinator and principal Investigator (with N. Gatti)**, *An artificial intelligent systems for optimizing online advertising campaigns*, Mediamatic S.r.l., 18 months, 110,000€ + VAT.
- 2016 **Coordinator and principal Investigator**, *Machine Learning for DVA Hedging*, Reply S.p.A., 6 months, 60,000€ + VAT.
- 2016 **Coordinator and principal Investigator**, *Machine Learning for Swaption Calibration*, Intesa San Paolo Group Service, 7 months, 60,000€ + VAT.
- 2016 **Coordinator and principal Investigator**, *Sviluppo di modelli fisici e computazionali per Cyber Tyre*, Pirelli S.p.A., 12 months, 170,000€ + VAT.
- 2014 **Co-Principal Investigator (with N. Gatti)**, *Sviluppo di un sistema di pricing automatico per la vendita di biglietti aerei*, Bravonext SA, 36 months, 520,000€.
- 2011 **Coordinator and principal Investigator**, *Progettazione e sviluppo di algoritmi di apprendimento per il miglioramento del gradimento delle macchine da gioco*, Magic Dreams S.r.l., 5 months, 22,500€ + VAT.

Professional Activities

- 2019-2020 **Affiliated Researcher**, *Responsible for the research on the DVA challenge*, ISI Foundation.
- 2018-2019 **Affiliated Researcher**, *Responsible for the research on the xVA challenge*, ISI Foundation.
- since 2017 **Research Manager**, *Responsible for the research on Algorithms and Architectures in Artificial Intelligence*, Artificial Intelligence Observatory, Politecnico di Milano.
- 2012 **Computer Engineer**, *Development of a database and web interface for the selection, analysis and control of public announcements*, Consulta Regionale Lombarda degli Ordini degli Architetti Pianificatori Paesaggisti e Conservatori.

Viale Duca D'Aosta, 7 – 21052 - Busto Arsizio (VA) - Italy

☎ +39 329 9358325 • ☎ +39 02 2399 4015 • ☎ +39 02 2399 3411

✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

- 2006 **Scientific Consultant**, Project “*progettazione di software per sistemi robotici multi-agente con particolare riguardo a sistemi di percezione e di visione omnidirezionale da integrare a software specifici*”, IT+ROBOTICS Srl.
- 2001–2002 **Scientific Consultant**, Project “*Roby*” announced by ASI within the European project GALILEO.
- 2001 **Technical Reviewer**, Italian translation of book “XHTML” by Chelsea Valentine and Chris Minnick, Pearson Education Italia.
- 2000 **Special Research Contract**, Project “*Sviluppo di un algoritmo per la localizzazione di robot mobili*”, Università degli Studi di Milano - Bicocca, Milan, Italy.

Technology Transfer

Spin-off of Politecnico di Milano

- 2019 **ML cube** *I have co-founded this company that develops products and solutions using machine learning techniques. In particular, ML cube is developing products for digital advertising, dynamic pricing and the life-cycle management of machine learning models.*

Patents

- 2021 **Enrico Prati, Lorenzo Moro, Marcello Restelli**, “*A computer implemented method for real time quantum compiling based on artificial intelligence*”, nr.: 102021000006179 of March 16, 2021.

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12/31

Full List of Publications

Articles in International Journals

- [A42] Marco Mussi, Luigi Pellegrino, Oscar Francesco Pindaro, Marcello Restelli, and Francesco Trovò. “A Reinforcement Learning controller optimizing costs and battery State of Health in smart grids”. In: *Journal of Energy Storage* 82 (2024), p. 110572. ISSN: 2352-152X.
- [A41] Martino Bernasconi, Edoardo Vittori, Francesco Trovò, and Marcello Restelli. “Dealer markets: A reinforcement learning mean field game approach”. In: *The North American Journal of Economics and Finance* 68 (2023), p. 101974.
- [A40] Massimiliano Bonetti, Lorenzo Bisi, and Marcello Restelli. “Risk-averse optimization of reward-based coherent risk measures”. In: *Artif. Intell.* 316 (2023), p. 103845.
- [A39] Filippo Fedeli, Alberto Maria Metelli, Francesco Trovò, and Marcello Restelli. “IWDA: Importance Weighting for Drift Adaptation in Streaming Supervised Learning Problems”. In: *IEEE Trans. Neural Networks Learn. Syst.* 34.10 (2023), pp. 6813–6823.
- [A38] Marco Mussi, Davide Lombarda, Alberto Maria Metelli, Francesco Trovò, and Marcello Restelli. “ARLO: A framework for Automated Reinforcement Learning”. In: *Expert Syst. Appl.* 224 (2023), p. 119883.
- [A37] Mirco Mutti, Riccardo De Santi, Piersilvio De Bartolomeis, and Marcello Restelli. “Convex Reinforcement Learning in Finite Trials”. In: *J. Mach. Learn. Res.* 24 (2023), 250:1–250:42.
- [A36] Riccardo Poiani, Ciprian Stirbu, Alberto Maria Metelli, and Marcello Restelli. “Optimizing Empty Container Repositioning and Fleet Deployment via Configurable Semi-POMDPs”. In: *IEEE Transactions on Intelligent Transportation Systems* (2023).
- [A35] Arselja Prelaj, Edoardo Gregorio Galli, Vanja Miskovic, Mattia Pesenti, Giuseppe Viscardi, Benedetta Pedica, Laura Mazzeo, Achille Bottiglieri, Leonardo Provenzano, Andrea Spagnoletti, Marcello Restelli, et al. “Real-world data to build explainable trustworthy artificial intelligence models for prediction of immunotherapy efficacy in NSCLC patients”. In: *Frontiers in Oncology* 12 (2023), p. 1078822.
- [A34] Arselja Prelaj, Monica Ganzinelli, Laila C Roisman, Alessandra Laura Giulia Pedrocchi, Sokol Kosta, Marcello Restelli, Emilia Ambrosini, Massimo Broggin, Gabriella Pravettoni, Dario Monzani, Marcello Restelli, et al. “The EU-funded I3LUNG project: Integrative science, intelligent data platform for individualized LUNG cancer care with immunotherapy”. In: *Clinical Lung Cancer* 24.4 (2023), pp. 381–387.
- [A33] Lorenzo Bisi, Davide Santambrogio, Federico Sandrelli, Andrea Tirinzoni, Brian D Ziebart, and Marcello Restelli. “Risk-averse policy optimization via risk-neutral policy optimization”. In: *Artificial Intelligence* 311 (2022), p. 103765.
- [A32] Conor F. Hayes, Roxana Radulescu, Eugenio Bargiacchi, Johan Källström, Matthew Macfarlane, Mathieu Reymond, Timothy Verstraeten, Luisa M. Zintgraf, Richard Dazeley, Fredrik Heintz, Enda Howley, Athirai A. Irissappane, Patrick Mannion, Ann Nowé, Gabriel de Oliveira Ramos, Marcello Restelli, Peter Vamplew, and Diederik M. Roijers. “A practical guide to multi-objective reinforcement learning and planning”. In: *Auton. Agents Multi Agent Syst.* 36.1 (2022), p. 26.
- [A31] Alberto Maria Metelli, Guglielmo Manneschi, and Marcello Restelli. “Policy space identification in configurable environments”. In: *Mach. Learn.* 111.6 (2022), pp. 2093–2145.

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

13/31

- [A30] Marco Mussi, Luigi Pellegrino, Marcello Restelli, and Francesco Trovò. “An online state of health estimation method for lithium-ion batteries based on time partitioning and data-driven model identification”. In: *Journal of Energy Storage* 55 (2022), p. 105467. ISSN: 2352-152X. DOI: <https://doi.org/10.1016/j.est.2022.105467>. URL: <https://www.sciencedirect.com/science/article/pii/S2352152X22014591>.
- [A29] Alessandro Nuara, Francesco Trovò, Nicola Gatti, and Marcello Restelli. “Online joint bid/daily budget optimization of Internet advertising campaigns”. In: *Artif. Intell.* 305 (2022), p. 103663.
- [A28] Matteo Papini, Matteo Pirotta, and Marcello Restelli. “Smoothing policies and safe policy gradients”. In: *Machine Learning* (2022), pp. 1–57.
- [A27] Arsela Prelaj, Mattia Boeri, Alessandro Robuschi, Roberto Ferrara, Claudia Proto, Giuseppe Lo Russo, Giulia Galli, Alessandro De Toma, Marta Brambilla, Mario Occhipinti, et al. “Machine Learning Using Real-World and Translational Data to Improve Treatment Selection for NSCLC Patients Treated with Immunotherapy”. In: *Cancers* 14.2 (2022), p. 435.
- [A26] Aida Brankovic, Matteo Matteucci, Marcello Restelli, Luca Ferrarini, Luigi Piroddi, Andrea Spelta, and Fabrizio Zausa. “Data-driven indicators for the detection and prediction of stuck-pipe events in oil&gas drilling operations”. In: *Upstream Oil and Gas Technology* 7 (2021), p. 100043.
- [A25] Carlo D’Eramo, Andrea Cini, Alessandro Nuara, Matteo Pirotta, Cesare Alippi, Jan Peters, and Marcello Restelli. “Gaussian Approximation for Bias Reduction in Q-Learning”. In: *Journal of Machine Learning Research* 22.277 (2021), pp. 1–51. URL: <http://jmlr.org/papers/v22/20-633.html>.
- [A24] Carlo D’Eramo, Davide Tateo, Andrea Bonarini, Marcello Restelli, and Jan Peters. “MushroomRL: Simplifying Reinforcement Learning Research”. In: *Journal of Machine Learning Research* 22.131 (2021), pp. 1–5. URL: <http://jmlr.org/papers/v22/18-056.html>.
- [A23] Amarildo Likmeta, Alberto Maria Metelli, Giorgia Ramponi, Andrea Tirinzoni, Matteo Giuliani, and Marcello Restelli. “Dealing with multiple experts and non-stationarity in inverse reinforcement learning: an application to real-life problems”. In: *Mach. Learn.* 110.9 (2021), pp. 2541–2576.
- [A22] Alberto Maria Metelli, Matteo Pirotta, Daniele Calandriello, and Marcello Restelli. “Safe Policy Iteration: A Monotonically Improving Approximate Policy Iteration Approach”. In: *J. Mach. Learn. Res.* 22 (2021), 97:1–97:83.
- [A21] Lorenzo Moro, Matteo G. A. Paris, Marcello Restelli, and Enrico Prati. “Quantum compiling by deep reinforcement learning”. In: *Communications Physics* 4.178 (2021).
- [A20] Marco Mussi, Luigi Pellegrino, Marcello Restelli, and Francesco Trovò. “A voltage dynamic-based state of charge estimation method for batteries storage systems”. In: *Journal of Energy Storage* 44 (2021), p. 103309.
- [A19] Amarildo Likmeta, Alberto Maria Metelli, Andrea Tirinzoni, Riccardo Giol, Marcello Restelli, and Danilo Romano. “Combining reinforcement learning with rule-based controllers for transparent and general decision-making in autonomous driving”. In: *Robotics Auton. Syst.* 131 (2020), p. 103568.

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

14/31

- [A18] Alberto Maria Metelli, Matteo Papini, Nico Montali, and Marcello Restelli. “Importance Sampling Techniques for Policy Optimization”. In: *Journal of Machine Learning Research* 21.141 (2020), pp. 1–75. URL: <http://jmlr.org/papers/v21/20-124.html>.
- [A17] Alberto Maria Metelli, Matteo Pirotta, and Marcello Restelli. “On the use of the policy gradient and Hessian in inverse reinforcement learning”. In: *Intelligenza Artificiale* 14.1 (2020), pp. 117–150.
- [A16] Francesco Trovò, Marcello Restelli, and Nicola Gatti. “Sliding-Window Thompson Sampling for Non-Stationary Settings”. In: *J. Artif. Intell. Res.* 68 (2020), pp. 311–364.
- [A15] Riccardo Porotti, Dario Tamascelli, Marcello Restelli, and Enrico Prati. “Coherent transport of quantum states by deep reinforcement learning”. In: *Communications Physics* 2.61 (2019).
- [A14] Francesco Trovò, Stefano Paladino, Marcello Restelli, and Nicola Gatti. “Improving multi-armed bandit algorithms in online pricing settings”. In: *Int. J. Approx. Reasoning* 98 (2018), pp. 196–235. DOI: 10.1016/j.ijar.2018.04.006. URL: <https://doi.org/10.1016/j.ijar.2018.04.006>.
- [A13] Nicola Gatti, Fabio Panozzo, and Marcello Restelli. “Extensive-form games with heterogeneous populations: solution concepts, equilibria characterization, learning dynamics”. In: *INTELLIGENZA ARTIFICIALE* 10.1 (2016), pp. 19–31. DOI: 10.3233/IA-160092.
- [A12] Giorgio Manganini, Matteo Pirotta, Marcello Restelli, Luigi Piroddi, and Maria Prandini. “Policy Search for the Optimal Control of Markov Decision Processes: A Novel Particle-Based Iterative Scheme”. In: *IEEE TRANSACTIONS ON CYBERNETICS* 46.11 (2016), pp. 2643–2655. DOI: 10.1109/TCYB.2015.2483780.
- [A11] Simone Parisi, Matteo Pirotta, and Marcello Restelli. “Multi-objective Reinforcement Learning through Continuous Pareto Manifold Approximation”. In: *JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH* 57 (2016), pp. 187–227. DOI: 10.1613/jair.4961.
- [A10] Daniele Calandriello, Alessandro Lazaric, and Marcello Restelli. “Sparse multi-task reinforcement learning”. In: *INTELLIGENZA ARTIFICIALE* 9 (2015), pp. 5–20. DOI: 10.3233/IA-150080.
- [A9] Matteo Pirotta, Marcello Restelli, and Luca Bascetta. “Policy gradient in Lipschitz Markov Decision Processes”. In: *MACHINE LEARNING* 100 (2015), pp. 255–283. DOI: 10.1007/s10994-015-5484-1.
- [A8] Andrea Castelletti, Francesca Pianosi, and Marcello Restelli. “A multiobjective reinforcement learning approach to water resources systems operation: Pareto frontier approximation in a single run”. In: *WATER RESOURCES RESEARCH* 49 (2013), pp. 3476–3486. DOI: 10.1002/wrcr.20295.
- [A7] Francesca Pianosi, Andrea Castelletti, and Marcello Restelli. “Tree-based fitted Q-iteration for multi-objective Markov decision processes in water resource management”. In: *JOURNAL OF HYDROINFORMATICS* 15 (2013), pp. 258–270. DOI: 10.2166/hydro.2013.169.
- [A6] Andrea Castelletti, Stefano Galelli, Marcello Restelli, and Rodolfo Soncini Sessa. “Data-driven dynamic emulation modelling for the optimal management of environmental systems”. In: *ENVIRONMENTAL MODELLING & SOFTWARE* 34 (2012), pp. 30–43. DOI: 10.1016/j.envsoft.2011.09.003.

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☎ +39 329 9358325 • 📞 +39 02 2399 4015 • 📠 +39 02 2399 3411

✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

15/31

- [A5] Andrea Castelletti, Stefano Galelli, Marcello Restelli, and Rodolfo Soncini Sessa. “Tree-based reinforcement learning for optimal water reservoir operation”. In: *WATER RESOURCES RESEARCH* 46.9 (2010), pp. 1–19. DOI: 10.1029/2009WR008898.
- [A4] Andrea Bonarini, Alessandro Lazaric, Francesco Montrone, and Marcello Restelli. “Reinforcement Distribution in Fuzzy Q-Learning”. In: *FUZZY SETS AND SYSTEMS* 160 (2009), pp. 1420–1443. DOI: 10.1016/j.fss.2008.11.026.
- [A3] Andrea Bonarini, Matteo Matteucci, and Marcello Restelli. “Learning Fuzzy Classifier Systems: Architecture and Exploration Issues”. In: *INTERNATIONAL JOURNAL ON ARTIFICIAL INTELLIGENCE TOOLS* 16.2 (2007), pp. 269–289.
- [A2] Andrea Bonarini, Matteo Matteucci, and Marcello Restelli. “Problems and Solutions for Anchoring in Multi-Robot Applications”. In: *JOURNAL OF INTELLIGENT AND FUZZY SYSTEMS* (2007), pp. 245–254.
- [A1] Andrea Bonarini, Matteo Matteucci, and Marcello Restelli. “Concepts and Fuzzy Models for Behavior-based Robotics”. In: *INTERNATIONAL JOURNAL OF APPROXIMATE REASONING (IJAR)* 41.2 (2006), pp. 110–127.

Articles and Chapters in International Books

- [B3] Nicola Gatti, Alessandro Lazaric, and Marcello Restelli. “Agent-Mediated Electronic Commerce and Trading Agent Design and Analysis: AAMAS Workshop, AMEC 2008, Estoril, Portugal, May 12-16, 2008, and AAI Workshop, TADA 2008, Chicago, IL, USA, July 14, 2008, Revised Selected Papers”. In: ed. by Wolfgang Ketter, Han La Poutré, Norman Sadeh, Onn Shehory, and William Walsh. Berlin, Heidelberg: Springer Berlin Heidelberg, 2010. Chap. Towards Automated Bargaining in Electronic Markets: A Partially Two-Sided Competition Model, pp. 117–130. ISBN: 978-3-642-15237-5. DOI: 10.1007/978-3-642-15237-5_9.
- [B2] Alessandro Lazaric, Enrique Munoz de Cote, Fabio Dercole, and Marcello Restelli. “Adaptive Agents and Multi-Agent Systems III. Adaptation and Multi-Agent Learning: 5th, 6th, and 7th European Symposium, ALAMAS 2005-2007 on Adaptive and Learning Agents and Multi-Agent Systems, Revised Selected Papers”. In: ed. by Karl Tuyls, Ann Nowe, Zahia Guessoum, and Daniel Kudenko. Berlin, Heidelberg: Springer Berlin Heidelberg, 2008. Chap. Bifurcation Analysis of Reinforcement Learning Agents in the Selten’s Horse Game, pp. 129–144. ISBN: 978-3-540-77949-0. DOI: 10.1007/978-3-540-77949-0_10.
- [B1] Andrea Bonarini, Matteo Matteucci, and Marcello Restelli. “Software Engineering for Experimental Robotics”. In: ed. by Davide Brugali. Berlin, Heidelberg: Springer Berlin Heidelberg, 2007. Chap. MRT: Robotics Off-the-Shelf with the Modular Robotic Toolkit, pp. 345–364. ISBN: 978-3-540-68951-5. DOI: 10.1007/978-3-540-68951-5_20.

Articles in International Conferences and Workshops

- [C161] Khaled Eldowa, Nicolò Cesa-Bianchi, Alberto Maria Metelli, and Marcello Restelli. “Information-Theoretic Regret Bounds for Bandits with Fixed Expert Advice”. In: *ITW. IEEE*, 2023, pp. 30–35.
- [C160] Ahmed Elmaraghy, Jacopo Montali, Marcello Restelli, Francesco Causone, and Pierpaolo Ruttico. “Towards an AI-Based Framework for Autonomous Design and Construction: Learning from Reinforcement Learning Success in RTS Games”. In: *CAAD Futures*. Vol. 1819. Communications in Computer and Information Science. Springer, 2023, pp. 376–392.

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

- [C159] Conor F. Hayes, Roxana Radulescu, Eugenio Bargiacchi, Johan Källström, Matthew Macfarlane, Mathieu Reymond, Timothy Verstraeten, Luisa M. Zintgraf, Richard Dazeley, Fredrik Heintz, Enda Howley, Athirai A. Irissappane, Patrick Mannion, Ann Nowé, Gabriel de Oliveira Ramos, Marcello Restelli, Peter Vamplew, and Diederik M. Roijers. “A Brief Guide to Multi-Objective Reinforcement Learning and Planning”. In: *AAMAS*. ACM, 2023, pp. 1988–1990.
- [C158] Amarildo Likmeta, Matteo Sacco, Alberto Maria Metelli, and Marcello Restelli. “Wasserstein Actor-Critic: Directed Exploration via Optimism for Continuous-Actions Control”. In: *AAAI*. **acceptance rate: 1721/8777 (19.6%)**. AAAI Press, 2023, pp. 8782–8790.
- [C157] Davide Maran, Alberto Maria Metelli, and Marcello Restelli. “Tight Performance Guarantees of Imitator Policies with Continuous Actions”. In: *AAAI*. **acceptance rate: 1721/8777 (19.6%)**. AAAI Press, 2023, pp. 9073–9080.
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- [C154] Alberto Maria Metelli, Mirco Mutti, and Marcello Restelli. “A Tale of Sampling and Estimation in Discounted Reinforcement Learning”. In: *AISTATS*. Vol. 206. Proceedings of Machine Learning Research. **acceptance rate: 496/1689 (29.4%) oral presentation: 32/1689 (1.9%)**. PMLR, 2023, pp. 4575–4601.
- [C153] Marco Mussi, Gianmarco Genalti, Alessandro Nuara, Francesco Trovò, Marcello Restelli, and Nicola Gatti. “Dynamic Pricing with Volume Discounts in Online Settings”. In: *IAAI*. AAAI Press, 2023, pp. 15560–15568.
- [C152] Marco Mussi, Alberto Maria Metelli, and Marcello Restelli. “Dynamical Linear Bandits”. In: *ICML*. Vol. 202. Proceedings of Machine Learning Research. **acceptance rate: 1827/6538 (27.9%)**. PMLR, 2023, pp. 25563–25587.
- [C151] Mirco Mutti, Riccardo De Santi, Emanuele Rossi, Juan Felipe Calderón, Michael M. Bronstein, and Marcello Restelli. “Provably Efficient Causal Model-Based Reinforcement Learning for Systematic Generalization”. In: *AAAI*. **acceptance rate: 1721/8777 (19.6%)**. AAAI Press, 2023, pp. 9251–9259.
- [C150] Riccardo Poiani, Alberto Maria Metelli, and Marcello Restelli. “Truncating Trajectories in Monte Carlo Reinforcement Learning”. In: *ICML*. Vol. 202. Proceedings of Machine Learning Research. **acceptance rate: 1827/6538 (27.9%)**. PMLR, 2023, pp. 27994–28042.
- [C149] Riccardo Poiani, Nicole Nobili, Alberto Maria Metelli, and Marcello Restelli. “Truncating Trajectories in Monte Carlo Policy Evaluation: an Adaptive Approach”. In: *Thirty-seventh Conference on Neural Information Processing Systems*. **acceptance rate: 3218/12343 (26.1%)**. 2023.
- [C148] Luca Sabbioni, Francesco Corda, and Marcello Restelli. “Stepsize Learning for Policy Gradient Methods in Contextual Markov Decision Processes”. In: *ECML/PKDD (4)*. Vol. 14172. Lecture Notes in Computer Science. Springer, 2023, pp. 506–523.

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17/31

- [C147] Luca Sabbioni, Luca Al Daire, Lorenzo Bisi, Alberto Maria Metelli, and Marcello Restelli. “Simultaneously Updating All Persistence Values in Reinforcement Learning”. In: *AAAI*. **acceptance rate: 1721/8777 (19.6%)**. AAAI Press, 2023, pp. 9668–9676.
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- [C137] Marco Mussi, Gianmarco Genalti, Francesco Trovò, Alessandro Nuara, Nicola Gatti, and Marcello Restelli. “Pricing the Long Tail by Explainable Product Aggregation and Monotonic Bandits”. In: *KDD*. **acceptance rate: 195/753 (18.3%)**. ACM, 2022, pp. 3623–3633.
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18/31

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Viale Duca D’Aosta, 7 – 21052 - Busto Arsizio (VA) - Italy

☎ +39 329 9358325 • 📞 +39 02 2399 4015 • 📠 +39 02 2399 3411

✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

19/31

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☎ +39 329 9358325 • 📞 +39 02 2399 4015 • 📠 +39 02 2399 3411

✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

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Viale Duca D’Aosta, 7 – 21052 - Busto Arsizio (VA) - Italy

☎ +39 329 9358325 • ☎ +39 02 2399 4015 • ☎ +39 02 2399 3411

✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>

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✉ marcello.restelli@polimi.it • 🌐 <https://restelli.faculty.polimi.it>