

Giulia Romano

Ph.D. Student in Artificial Intelligence

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in [giuro](#)

Research Interests

Online Learning, Multi-Armed Bandits, Algorithmic Game Theory, Mechanism Design

Experience

- Nov2019-present **Ph.D. in Artificial Intelligence at Politecnico di Milano.**
Topics: online learning for digital markets, mechanism design. **Advisor:** prof. Nicola Gatti
- May2019 - **Industrial Collaboration – AdsHotel.**
May2021 **Project:** automated tool for bid/budget optimization
- Jan2019 - **Industrial Collaboration – DoveVivo.**
Jul2021 **Project:** automated pricing tool for room rental
- Jan2019-Oct2019 **Research Assistant at Politecnico di Milano.**

Education

- Nov2019-present **Ph.D. in Artificial Intelligence at Politecnico di Milano.**
Advisor: prof. Nicola Gatti
- Mar2016-Dec2018 **Mathematical Engineering MSc - Applied Statistics.**
Politecnico di Milano, Italy. **Minor:** Decision-making models and methods
- Sep2011-Feb2016 **Mathematical Engineering BSc.**
Politecnico di Milano, Italy

Publications

Conference Papers

- The Power of Media Agencies in Ad Auctions: Improving Utility through Coordinated Bidding,
Romano G., Castiglioni M., Marchesi A., Gatti N., under review, 2022
- Public Signaling in Bayesian Ad Auctions,
Bacchiocchi F., Castiglioni M., Marchesi A., Romano G., Gatti N., under review, 2022
- Multi-Armed Bandit Problem with Temporally-Partitioned Rewards: When Partial Feedback Counts,
Romano G., Agostini A., Trovò F., Gatti N., Restelli M., under review, 2022
- Efficiency of Ad Auctions with Price Displaying,
Castiglioni M., Ferraioli D., Gatti N., Marchesi A., Romano G., AAAI-2022
- Signaling in Posted Price Auctions,
Castiglioni M., Romano G., Marchesi A., Gatti N., AAAI-2022
- Online Posted Pricing with Unknown Time-Discounted Valuations,
Romano G., Tartaglia G., Marchesi A., Gatti N., AAAI-2021
- Personality-Based Representations of Imperfect-Recall Games,
Celli A., Romano G., Gatti N., AAMAS-2019, extended-abstract

Journal Papers

Safe Online Bid Optimization with Return-On-Investment and Budget Constraints subject to Uncertainty,
Castiglioni M., Nuara A., Romano G., Spadaro G., Trovò F., Gatti N., under review, 2022

Workshop Papers

Ottimizzazione di Campagne Pubblicitarie per Prenotazioni di Hotel con Algoritmi di Intelligenza Artificiale

Alessandrelli L., Trovò F., Romano G., Gatti N., Ital-IA-2022 (In Italian)

Safe Online Bid Optimization with Uncertain Return-On-Investment and Budget Constraints
Castiglioni M., Nuara A., Romano G., Spadaro G., Trovò F., Gatti N., NeurIPS 2021 Workshop on Machine Learning meets Econometrics (MLECON)

SHARP: Pricing Automatico dell'affitto di Stanze,
Nuara A., Romano G., Trovò F., Gatti N., Restelli M., Ital-IA-2019 (In Italian)

Honors and Awards

2021 Outstanding Poster Award,
At Mediterranean Machine Learning summer school

Teaching

2019-present **Teaching Assistant**, *Sistemi Informatici (Real-Time Computing Systems)*.
Politecnico di Milano, Italy

Talks

- 2021 Online Posted Pricing with Unknown Time-Discounted Valuations,
At AAAI-21, oral and poster presentation
- 2021 Safe Online Bid Optimization with Return-on-investment Constraints,
At Mediterranean Machine Learning summer school, poster presentation
- 2020 Online Posted Pricing with Unknown Time-Discounted Valuations,
At ALGADIMAR annual meeting (Algorithms, Games, and Digital Markets)

Language and IT skills

Italian **Native language.**

English **Fluent.**

French **Good.**

Programming **Python, R, SQL, Matlab, Ampl.**