

Ali Asadi

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EDUCATION

- **Ph.D. in Computer Science** 2021 – Present
IST Austria, Klosterneuburg, Austria
Focusing on game theory, multi-agent artificial intelligence, and decision-making under uncertainty. In particular, I study strategic behavior in uncertain, multi-agent environments from an algorithmic perspective.
- **B. Sc. in Computer Engineering** 2016 – 2021
Sharif University of Technology, Tehran, Iran
GPA: 18.93/20
Selected Courses:
 - Stochastic Processes
 - Combinatorial Optimization
 - Statistics and Applications
 - Online Learning
 - Algorithmic Game Theory
 - Probability and Statistics
 - Linear Algebra
 - Artificial Intelligence

HONORS AND AWARDS

- **Silver medal** in the 10th Asia-Pacific Informatics Olympiad (APIO) 2016
- **Gold and Silver medals** in the 25th and 24th Iranian National Olympiad in Informatics (INOI) 2014, 2015
- **2nd place** in the ACM-ICPC West Asia Regional Contest, Tehran, Iran. 2016

EXPERIENCE

- **Engineering Manager, Divar Co.** Sep. 2019 – Sep. 2021
 - Led a team consisting of 10 software engineers.
 - Redesigned and reimplemented the ads submission stack to improve scalability and functional flexibility.
 - Contributed to the organization's adoption of SRE practices and principles.Skills: gRPC, Django REST Framework, GO, PostgreSQL, Python, Service Mesh, Kubernetes, Docker, Code Review, Quality Assurance, Distributed Caching, Software Design, Clean Coding, RestfulAPI
- **Software Engineer, CafeBazaar Co.** July 2017 – July 2019
 - Redesigned and reimplemented the payment service to improve scalability and performance.
 - Implemented DevOps processes using Gitlab-CI and Kubernetes.
 - Maintained a variety of high-scale services.

PUBLICATIONS AND PRE-PRINTS

- “[Deterministic Sub-exponential Algorithm for Discounted-sum Games with Unary Weights](#)”
Ali Asadi, Krishnendu Chatterjee, Raimundo Saona, Jakub Svoboda
in *the Proceedings of the 39th Annual Symposium on Logic in Computer Science (LICS’24)*, 2024.
- “[Polynomial reachability witnesses via Stellensätze](#)”
Ali Asadi, Krishnendu Chatterjee, Hongfei Fu, Amir Kafshdar Goharshady, Mohammad Mahdavi
in *the Proceedings of the 42nd ACM SIGPLAN International Conference on Programming Language Design and Implementation (PLDI’21)*, 2021.
- “[Faster Algorithms for Quantitative Analysis of MCs and MDPs with Small Treewidth](#)”
Ali Asadi, Krishnendu Chatterjee, Amir Kafshdar Goharshady, Kiarash Mohammadi, Andreas Pavlogiannis
in *the Proceedings of the 18th International Symposium on Automated Technology for Verification and Analysis (ATVA’20)*, 2020.

- “Concurrent Stochastic Games with Stateful-discounted and Parity Objectives: Complexity and Algorithms”
Ali Asadi, Krishnendu Chatterjee, Raimundo Saona, Jakub Svoboda
to appear in *the 44th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS’24)*.
- “Limit-sure Winning with Small Memory Policies in POMDPs with Reachability objectives: Complexity and Symbolic Algorithm”
Ali Asadi, Krishnendu Chatterjee, Raimundo Saona, Ali Shafiee
Submitted to *the 39th Annual AAAI Conference on Artificial Intelligence (AAAI’25)*.