

Ashkan Safari

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Personal Information

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Research Interests

- Algorithm Analysis
- Optimization
- Scheduling
- Computational Geometry

Education

Maastricht University (UM)

Maastricht, The Netherlands

Ph.D. Candidate

2021–Present

Project Title: *Rigorous Analysis of Local Search*

Project Domain: *Mathematics/Computer Science*

Supervisors: *Prof. Dr. Tjark Vredeveld and Dr. Lars Rohwedder*

Expected Date of the Ph.D. Award: *May 2025*

Selected Coursework (LNMB Programme): *Algorithms & Complexity, Interior Point Methods, Algorithmic Game Theory, Cooperative Games with Applications to OR, Randomized Algorithms*

Institute for Advanced Studies in Basic Sciences (IASBS)

Zanjan, Iran

M.Sc. (Master of Science) in Computer Science

2018–2021

GPA: *19.81/20.00, total 37 credits completed, class rank: 2 of 14*

Thesis Title: *The Weighted Region Shortest Path Problem in Euclidean Space*

Supervisor: *Dr. Mansoor Davoodi Monfared*

Selected Coursework: *Advanced Algorithms, Approximation Algorithms, Computational Geometry, Robot Motion Planning and Machine Learning*

Institute for Advanced Studies in Basic Sciences (IASBS)

Zanjan, Iran

B.Sc. (Bachelor of Science) in Information Technology Engineering

2014–2018

GPA: *18.57/20.00, total 210 credits completed, class rank: 2 of 46*

Thesis Subject: *Developing an application for translating text and speech to Persian sign language*

Supervisor: *Dr. Mansoor Davoodi Monfared*

Selected Coursework: *Data Structures, Algorithm Design, Discrete Mathematics, Operations Research and Probability & Statistics*

Publications and Conference Presentations

- M. Davoodi and **A. Safari**, Path Planning in a Weighted Planar Subdivision Under the Manhattan Metric, *Graphs and Combinatorics* 40.1 (2024): 16.
- M. Davoodi, H. Enamzadeh and **A. Safari**, Path Planning in a Weighted Planar Subdivision Under the Manhattan Metric, In *Proceedings of the 32nd Canadian Conference on Computational Geometry (CCCG)*, University of Saskatchewan, 2020.

Research Experience

⇒: **Robotics and Computational Geometry Research Laboratory (RoboCG) (2018-2021)**

↔: Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran

↔: RoboCG Laboratory strives to be a leading developer of mathematical tools and algorithms for computational

geometry and motion planning of robots, simulation, optimization and theoretical analysis of algorithms.

↔: Heads: Dr. Mansoor Davoodi Monfared and Dr. Bahram Sadeghi Bigham

⇒: **Persian Sign Language Translator (AvaNama) (2017-2019)**

↔: Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran

↔: AvaNama is an application for translating text and speech to Persian sign language, with the goal of improving communication between the deaf and hearing.

↔: Project Manager: Dr. Mansoor Davoodi Monfared

↔: WebSite: www.avanama.org

Teaching Experience

⇒: **Tutor**

↔: Maastricht University (UM), Maastricht, The Netherlands

↔: Course Titles: Operations Research (2023-2024), Operations and Supply Chain Management (2021-2023)

⇒: **Teaching Assistant**

↔: Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran

↔: Course Titles: Algorithm Design (2018-2020), Data Structures (2015, 2018-2020) and Artificial Intelligence (2017)

↔: Performed all regular duties of a TA including weekly lectures, office hours and marking for undergraduate students.

Skills

Languages: English (Fluent), Persian (Native Speaker), Azeri (Native Speaker)

Programming Languages: Python, C++, C#, PHP, JavaScript, Erlang

Application Software: MATLAB

Databases: SQL, NoSQL

Others: Node.js, Express.js, GIT

References

Prof. Dr. Tjark Vredeveld

Full Professor at Department of Quantitative Economics, School of Business and Economics, Maastricht University (UM), Maastricht, The Netherlands.

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Dr. Lars Rohwedder

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