

Azadeh Tabatabaei

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CURRENT POSITION

Faculty Member of University of Science and Culture, Tehran, Iran
Department of Computer Engineering, 2018-Present

EDUCATION

2016 PhD in Computer Engineering

Sharif University of Technology, Tehran, Iran

Supervised by Professor Mohammad Ghodsi

Dissertation: Path planning Algorithms for Simple Robot in

Unknown Environment

2009 MS in Computer Science

Amirkabir University of Technology, Tehran, Iran

Dissertation: Watchman Route under Visibility Constraint

2000 BS in Mathematics and Computer Science

Al-Zahra University, Tehran, Iran

RESEARCH AND TEACHING INTERESTS

- Machine Learning
- Algorithms and Approximated and Randomized algorithm
- Graph Algorithms
- Computational geometry
- Motion Planning

PUBLICATIONS

- ✓ Azadeh Tabatabaei, Farehe Soheil, Mohammad Aletaha and Mohammad Ghodsi. " Integer Cow-path Problem and Simple Robot Street Search." The 33th Canadian Conference on Computational Geometry (CCCG 2021)
- ✓ Azadeh Tabatabaei, Mohammad Aletaha, Fardin Shapouri and Mohammad Ghodsi, . " Watchman Routes under Incidence Visibility Constraint in Convex Polygons" (ICCG 2021)
- ✓ MohammadJavad Asadi, Azadeh Tabatabaei, "proposed Method for Reducing Bandwidth Utilization in Live Container Migration at Fog Layer" (ICWR 2020)
- ✓ Mohammad Movaghar, Azadeh Tabatabaei, Analysis Of Social Anomalies In The Area Of Security And Correct Resource Management Using Clustering Technique And Descriptive Statistics. 6th National Conference on Applied Research in Computer Engineering and Information Technology(2020)
- ✓ Azadeh Tabatabaei, Mohammad Aletaha and Mohammad Ghodsi, . "Competitive Strategies for Walking in Streets for a Simple Robot Using Local Information" (ICCG 2020)
- ✓ Azadeh Tabatabaei, Mohammad Ghodsi, and Fardin shapouri. "Competitive Strategy for Walking in Streets for an Empowered Simple Robot" (ICCG 2019)
- ✓ Azadeh Tabatabaei and Mohammad Ghodsi, and Fardin Shapouri. "A Competitive Strategy for Walking in Generalized Streets for a Simple Robot." The 28th Canadian Conference on Computational Geometry (CCCG 2016)
- ✓ Azadeh Tabatabaei and Mohammad Ghodsi. "Walking in Street with MinimalSensing." Journal of Combinatorial Optimization (2015)
- ✓ Mohammad Abouei Mehrizi, Mohammad Ghodsi and Azadeh Tabatabaei. "Multi Robots Cooperation for Finding Target in Street." In proceedings of TTCS 2015. Springer Lecture Notes in Computer Science (2015)
- ✓ Azadeh Tabatabaei, and Mohammad Ghodsi. "A Randomized Strategy for Walking in Streets for a Simple Robot." The 31th Annual European Workshop on Computational Geometry (EuroCG 2015), March 15-18, Ljubljana, Slovenia (2015)
- ✓ Azadeh Tabatabaei and Mohammad Ghodsi " Optimal Strategy for Walking in Streets with Minimum Number of Turns for a Simple Robot." Springer Lecture Notes in Computer Science (2014)
- ✓ Azadeh Tabatabaei and Mohammad Ghodsi " Walking in streets with minimal sensing." In Combinatorial optimization and applications, pp 361–372. Springer Lecture Notes in Computer Science (2013)

- ✓ Azadeh Tabatabaei and Ali mohades. "Clarity Watchman Route." in online Proceedings of 7th Japan Conference on Computational Geometry and Graphs (2009)

And Some Persian Papers...

TEACHING AND MENTORING EXPERIENCE

- Instructor for Undergraduate students, Design and analysis of algorithm, computational intelligence and Artificial intelligence, Science and culture university (2018 - present)
- Instructor for Master Student, advanced algorithm, machine learning and time series forecasting courses, Science and culture university (2018 - present)
- Teaching Fellow, Design and analysis of algorithm, Sharif University of Technology (Fall 2013 and 2014)
- Thesis Advisor for three Sharif University undergraduates (2012-13 and 2014-15)
- lecturer for undergraduate, Mathematics and programing courses, Sharif University
- Instructor for Master Student, advanced algorithm and Computational Geometry courses, Azad university (2011-2014)

RELATED PROFESSIONAL EXPERIENCE

- The ACM Competition staff, Sharif university of Technology, 2013
- Reviewer in IPL, IEICE, IJECE, and IJWR Journal
- Review of the papers of International Conference of Web Research, 2018 – present
- Review of the papers of the annual conference of the Iranian Computer Society, 2011-2016
- of the Mathematical Society of Al-Zahra University
- Member of the theory and algorithm group of Sharif University of Technology

Honors

- Graduated from Al-Zahra University, received the first rank
- Graduated from Amirkabir University of Technology, received Member the topping rank
- Ph.D. graduated from the best university in Iran, received 17.24 average

Skills

- Machine learning with Python
- Programming with c and c ++ and using openGl
- Parallel processing with Cuda
- Programming with Java
- Neural Networks, Fuzzy Logic and Evolutionary Algorithms

REFERENCES

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