

Mohsen Alambardar Meybodi

*Assistant Professor, Department of Applied Mathematics and Computer Science,
University of Isfahan, Iran*

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Education

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| 2014-2019 | University of Yazd , Yazd, Iran
Ph.D. in Computer Science
GPA: 19.33/20 (A+, Graduated with Distinction)
Thesis: Optimal Domination Cover Number in Graphs: Analysis and Algorithms
Supervisor: Prof. Mohammad Reza Hooshmandasl |
| 2017-2018 | University of Bergen , Norway
Research visitor
Supervisor: Prof. Fedor Fomin |
| 2008-2010 | University of Yazd , Yazd, Iran
M.Sc. in Computer Science
GPA: 18.39/20 (A+)
Thesis Title: On the Relations Between Periods and Critical Factorization of Words: Classical and Probabilistic Points-of-View
Supervisor: Prof. Mohammad Reza Hooshmandasl |
| 2004-2008 | Yazd University , Yazd, Iran
B.Sc. in Computer Science
GPA: 16.23/20 (A) |

Honors

- ✓ **Ranked First** among PhD students of Computer Science with GPA 19.33/20, Yazd University, Yazd, Iran
- ✓ **Ranked Second** among MSc students of Computer Science with GPA 18.39/20, Yazd University, Yazd, Iran
- ✓ **Ranked Third** among undergraduate students of Computer Science with GPA 16.23/20, Yazd University, Yazd, Iran

Peer-reviewed Publications

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| Journal Paper | ✓ M. Alambardar Meybodi, A.K. Goharshady, M.R. Hooshmandasl, A. Shakiba
Optimal Blocks for Maximizing the Transaction Fee Revenue of Bitcoin Miners
Journal of Combinatorial Optimization, 2024 |
| Journal Paper | ✓ M. Alambardar Meybodi, A Poureidi
On [1,2]-Domination in Interval and Circle Graphs
Discrete Mathematics & Theoretical Computer Science, 2024 |
| Journal Paper | ✓ M Rajaati Babil Olyaei, M Alambardar Meybodi, MR Hooshmandasl, A Shakiba
Explicit construction of mixed dominating sets in generalized Petersen graphs
Journal of Combinatorial Optimization, 2024 |
| Journal Paper | ✓ E. Davoodijam, M Alambardar Meybodi
Evaluation metrics on text summarization: comprehensive survey
Knowledge and Information Systems, 2024 |
| Journal Paper | ✓ M. Alambardar Meybodi, M.R. Hooshmandasl, P. Sharifani, A. Shakiba
On the k-rainbow domination in graphs with bounded tree-width
Electronic Journal of Graph Theory and Applications, 2021 |
| Journal Paper | ✓ P. Sharifani, M. R. Hooshmandasl, M. Alambardar Meybodi
An Explicit Construction of Optimal Dominating Sets in Grid
International Journal of Graphs and Combinatorics, 2021 |
| Journal Paper | ✓ M. Alambardar Meybodi, F. Fomin, A. E. Mouawad, F. Panolan
On the Parameterized Complexity of [1, j]-Domination Problems
Theoretical Computer Science, 2020 |
| Journal Paper | ✓ A.K. Goharshady, M.R. Hooshmandasl, M. Alambardar Meybodi
[1, 2]-sets and [1, 2]-total sets in trees with algorithms
Discrete Applied Mathematics, 2016 |
| Journal Paper | ✓ A. Shakiba, M.R. Hooshmandasl, M.AlambardarMeybodi
Cryptanalysis of Multiplicative Coupled Cryptosystems based on the Chebyshev Polynomials
International Journal of Bifurcation and Chaos, 2016 |
| Conference Paper | ✓ M.R. Hooshmandasl, M. Alambardar Meybodi, A.K. Goharshady, A.Shakiba
A combinatorial approach to certain topological spaces based on minimum complement S-approximation spaces
8th International Seminar on Geometry and Topology, Iran, 2015 |
| Journal Paper | ✓ M.R. Hooshmandasl, A. Karimi, M. Alambardar Meybodi, B. Davaz
Axiomatic system for rough set-valued homomorphisms of associative rings
International Journal of Approximate Reasoning, 2012 |
| Conference Paper | ✓ A. Shakiba, M.R. Hooshmandasl, M. Alambardar Meybodi
Multiplicative Coupled Public Key Schemes
9th ISC International Conference on Information Security and Cryptography, Tabriz, Iran, 2012 (In Persian) |
| Conference Paper | ✓ M. Alambardar Meybodi, M.R. Hooshmandasl, A. Shakiba
A Public Key Cryptographic Scheme by Invertible Mappings,
9th ISC's International Conference on Information Security and Cryptography, Tabriz, Iran, 2012 (In Persian) |

Teaching Experience

Spring 2024	Machine Learning (MS) Theory of Computation
Fall 2023	Theoretical Computer Science (MS) Programming in C++
Spring 2023	Machine Learning (MS) Graphs and Algorithms (MS)

Project Experience

Spring 2024	“Microuidic Droplet Detection Using Synthetic Data Generated by a Generative Adversarial Network” SAIRAN Medical Equipment Industrie.
Spring 2023	“Maximizing the Transaction Fee Revenue of Bitcoin Miners” School of Computer Science, Institute for Research in Fundamental Sciences (IPM), Tehran
Fall 2023	“Vehicle brand and license plate recognition using deep learning in embedded systems” Diana Knowledge-Based Company

Research Interests

- Parameterized algorithms
- Graph theory and graph algorithms
- Complexity theory
- Machine Learning