

Ali Shakiba

CONTACT INFORMATION

Assistant Professor
Department of Computer Science
Faculty of Mathematical Sciences
Vali-e-Asr University of Rafsanjan
Rafsanjan, Kerman, Iran

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RESEARCH PROFILES

Google Scholar Profile (Total Citations: 244, h-index: 9, i10-index: 9)

SCOPUS: 56971235200 (Total Citations: 153, h-index: 7)

WoS Researcher ID: J-6420-2016 (Total Citations: 148, h-index: 7, Verified Reviews: 30)

ORCID: 0000-0002-2253-1166

EDUCATION

Sept. 2012 - Feb. 2016

Ph.D. in Computer Science, Department of Computer Science, Yazd University, Yazd, Iran

- Dissertation Title: S-approximation and its applications to information processing
- Thesis Committee Members: Prof. M. R. Hooshmandasl, Prof. B. Davvaz & Prof. S. A. Shahzadeh Fazely
- Defended within seven academic terms with seven publications (including 5 JCR journal papers)

Sept. 2010 - Sept. 2012

M.Sc. in Computer Science, Department of Computer Science, Yazd University, Yazd, Iran

- Thesis Title: An Overview of Generalized Quantum Turing Machine and Computational Complexity
- Thesis Committee Members: Prof. M. R. Hooshmandasl & Prof. S. A. Shahzadeh Fazely

Sept. 2006 - Sept. 2010

B.Sc. in Computer Science, Department of Computer Science, Shahid Bahonar University of Kerman, Kerman, Iran

- Project Title: Classical Information Retrieval Models
- Supervisor: Prof. H. Sanatnama

Research Interests

- Machine Learning (1 publication + 2 working papers)
- Parameterized Complexity (9 publications + 1 working paper)
- Cryptography and Security (11 publications + 1 working paper)
- Uncertain Information Processing (9 publications)
- Deep Learning (1 working paper + 1 project)

HONORS

- Distinguished Researcher Award of Vali-e-Asr University in Faculty of Mathematical Sciences, 2020
- Distinguished Researcher Award of Vali-e-Asr University at the Department of Computer Science, 2019
- Professor of the Year Award, voted as best professor by the student body of the Department of Computer Science at Vali-e-Asr University, 2019
- Ranked 24th in National Entrance Exam for PhD in Computer Science, 2012
- Graduated MSc in Computer Science with 1st Rank from Yazd University, 2012
- Ranked 1st in the “Practical Abilities in Computer” competition - Province Round (Kerman) while studying at High School, 2005
- Honorable Mention in the “Practical Abilities in Computer” competition - National Round while studying at High School, 2005

PUBLICATIONS IN INTERNATIONAL JOURNALS

1. SHAKIBA, A. A novel 2D cascade modulation couple hyperchaotic mapping for randomized image encryption. *Multimedia Tools & Applications* 80, (2021) 17983–18006.
2. ALAMBARDAR, M., HOOSHMANDASL, M.R., SHARIFANI, P., SHAKIBA, A. On the k-rainbow domination in graphs with bounded tree-width. *Electronic Journal of Graph Theory and Applications (EJGTA)* 9, 2 (2021) 277–300.
3. SHAKIBA, A. Distributed Decision Making with S-approximation Spaces. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems* 29, 2 (2021) 281–311.
4. CHABOKI, B., SHAKIBA A. An image encryption algorithm with a novel chaotic coupled mapped lattice and chaotic image scrambling technique. *Indonesian Journal of Electrical Engineering and Computer Science* 21, 2 (2021) 1103–1112.
5. SHAKIBA, A. A novel randomized bit-level two-dimensional hyperchaotic image encryption algorithm. *Multimedia Tools & Applications* 79, (2020) 32575–32605.
6. SHAKIBA, A. Generating dynamic S-boxes using 1D Chebyshev chaotic maps. *Journal of Computing & Security* 7, 1 (2020), 1–7. *Distinguished paper of the Journal on 2020*
7. SHAKIBA A., GOHARSHADY A.K., HOOSHMANDASL M.R., ALAMBARDAR MEYBODI M. A short note on belief structures and S-approximation Spaces. *Iranian Journal of Mathematical Sciences and Informatics* 15, 2 (2020), 117–128.
8. SHAKIBA, A. A novel randomized one-dimensional chaotic Chebyshev mapping for chosen plaintext attack secure image encryption with a novel chaotic breadth first traversal. *Multimedia Tools & Applications* 78, (2019) 34773–34799.
9. HASHEMPOUR, M., HOOSHMANDASL, M., AND SHAKIBA, A. On outer-connected domination for graph products. *Journal of Information and Optimization Sciences* (2019).
10. SHAKIBA, A. A randomized CPA-secure asymmetric-key chaotic color image encryption scheme based on the Chebyshev mappings and one-time pad. *JKSU-Computer and Information Sciences* (2019).
11. SHAKIBA, A. Security analysis for chaotic maps-based mutual authentication and key agreement using smart cards for wireless networks. *Journal of Information and Optimization Sciences* 40, 3 (2019), 725–750.
12. MEYBODI, M. A., HOOSHMANDASL, M., SHARIFANI, P., AND SHAKIBA, A. Domination cover number of graphs. *Discrete Mathematics Algorithms and Applications* 11, 1 (2019), 1950020.

13. HASHEMPOUR, M., HOOSHMANDASL, M., AND SHAKIBA, A. On the complexity of the outer-connected bondage and the outer-connected reinforcement problems. *Australasian Journal of Combinatorics* 73, 3 (2019), 466–477.
14. HEYDARI, M., MAHMOUDI, M., SHAKIBA, A., AND AVAZZADEH, Z. Chebyshev cardinal wavelets and their application in solving nonlinear stochastic differential equations with fractional brownian motion. *Communications in Nonlinear Science and Numerical Simulation* 64 (2018), 98–121.
15. RAJAATI, M., HOOSHMANDASL, M., DINNEEN, M., AND SHAKIBA, A. On fixed-parameter tractability of the mixed domination problem for graphs with bounded tree-width. *Discrete Mathematics & Theoretical Computer Science* 20 (2018).
16. RAJAATI, M., SHAKIBA, A., HOOSHMANDASL, M., SHARIFANI, P., AND DINNEEN, M. J. An efficient algorithm for mixed domination on generalized series-parallel graphs. *Algebraic structures and their applications* 5, 1 (2018), 23–39.
17. SHAKIBA, A., HOOSHMANDASL, M., DAVVAZ, B., AND SHAHZADEH FAZELI, S. A. S-approximation spaces: A fuzzy approach. *Iranian Journal of Fuzzy Systems* 14, 2 (2017), 127–154.
18. SHAKIBA, A., AND HOOSHMANDASL, M. R. Data volume reduction in covering approximation spaces with respect to twenty-two types of covering based rough sets. *International Journal of Approximate Reasoning* 75 (2016), 13–38.
19. SHAKIBA, A., AND HOOSHMANDASL, M. R. Neighborhood system S-approximation spaces and applications. *Knowledge and Information Systems* 49, 2 (2016), 749–794.
20. SHAKIBA, A., HOOSHMANDASL, M. R., DAVVAZ, B., AND FAZELI, S. A. S. An intuitionistic fuzzy approach to S-approximation spaces. *Journal of Intelligent & Fuzzy Systems* 30, 6 (2016), 3385–3397.
21. SHAKIBA, A., HOOSHMANDASL, M. R., AND MEYBODI, M. A. Cryptanalysis of multiplicative coupled cryptosystems based on the chebyshev polynomials. *International Journal of Bifurcation and Chaos* 26, 07 (2016), 1650112.
22. HEYDARI, M., HOOSHMANDASL, M. R., SHAKIBA, A., AND CATTANI, C. Legendre wavelets Galerkin method for solving nonlinear stochastic integral equations. *Nonlinear Dynamics* 85, 2 (2016), 1185–1202.
23. HEYDARI, M., HOOSHMANDASL, M. R., SHAKIBA, A., AND CATTANI, C. An efficient computational method based on the hat functions for solving fractional optimal control problems. *Tbilisi Mathematical Journal* 9, 1 (2016), 143–157.
24. SHAKIBA, A., AND HOOSHMANDASL, M. R. S-approximation spaces: a three-way decision approach. *Fundamenta Informaticae* 139, 3 (2015), 307–328.
25. HOOSHMANDASL, M. R., SHAKIBA, A., GOHARSHADY, A., AND KARIMI, A. S-approximation: a new approach to algebraic approximation. *Journal of Discrete Mathematics* 2014 (2014).

BOOKS AND BOOK CHAPTERS

1. SHAKIBA, A., TARI, M., ASHORIOUN, M. Fundamentals of information security. Payam Noor University Press (PNU), (in Persian), 2021. *To appear - nationally selected as the textbook for the CS, CE & IT undergraduate curriculum at PNU*
2. HEYDARI, M., SHAKIBA, A., AVAZZADEH, Z., AND CATTANI, C. Second kind Chebyshev wavelets for solving variable-order space-time fractional telegraph equation. In *Special Functions and Analysis of Differential Equations*. Taylor and Francis, 2020.

3. SHAKIBA, A. S-approximation spaces. In *Algebraic Methods in General Rough Sets*. Birkhäuser, Cham, 2019, pp. 697–725.
4. FARSHI, M., HASHEMINEZHAD, M., MEYBODI, M.A., SHAKIBA, A., BABAIEI, M., NAZARI, KH. Fundamentals of computer programming in C++. Yazd University Press, (in Persian), 2015. (*2nd edition in 2021*)

PUBLICATIONS IN
NATIONAL
CONFERENCES

1. SHAKIBA, A. The Combination of S-approximation Spaces to Model Group Decision Making. In *International Conference on Recent Achievements in Mathematical Science at Yazd University* (2019).
2. HASHEMPOUR, M., HOOSHMANDASL, M., AND SHAKIBA, A. On the outer-connected reinforcement and the complexity. In *International Conference on Recent Achievements in Mathematical Science at Yazd University* (2019).
3. MEYBODI, M. A., HOOSHMANDASL, M. R., AND SHAKIBA, A. W[1]-hardness of Outer Connected Dominating set in d-degenerate graphs. In *49th Annual Iranian Mathematics Conference at Iran University of Science and Technology* (2018).
4. SHAKIBA, A. Differentially Private Fuzzy C-Means Clustering Algorithms for Fuzzy Datasets. In *6th Iranian Joint Congress on Fuzzy and Intelligent Systems (17th Conference on Fuzzy Systems and 15th Conference on Intelligent Systems) at Shahid Bahonar University of Kerman* (2018).
5. HASHEMPOUR, M., HOOSHMANDASL, M., AND SHAKIBA, A. On the complexity of the outer-connected bondage and the outer-connected reinforcement problems. In *10th Conference on Graph Theory and Algebraic Combinatorics at Yazd University* (2018).
6. HOOSHMANDASL, M. R., MEYBODI, M. A., GOHARSHADY, A., AND SHAKIBA, A. A combinatorial approach to certain topological spaces based on minimum complement s-approximation spaces. In *8th International Seminar on Geometry and Topology at Amirkabir University of Technology* (2016).
7. SHAKIBA, A., AND HOOSHMANDASL, M. R. Generalized Quantum Turing Machines and Satisfiability Problem. In *2nd National Conference on Software Engineering at University of Lahijan* (2012).
8. SHAKIBA, A., HOOSHMANDASL, M. R., AND MEYBODI, M. A. Multiplicative Coupled Public Key Schemes. In *9th ISC's International Conference on Information Security and Cryptography at University of Tabriz* (2012).
9. MEYBODI, M. A., HOOSHMANDASL, M. R., AND SHAKIBA, A. A Public Key Cryptographic Scheme by Invertible Mappings. In *9th ISC's International Conference on Information Security and Cryptography at University of Tabriz* (2012).

MANUSCRIPTS
AWAITING
PEER-REVIEW

1. SHAKIBA, A. A novel randomized chaotic bit-level image encryption algorithm based on a novel 2D-CICM hyper-chaotic mapping with CPA-security, Submitted to Multimedia Tools and Applications.
2. ALAMBARDAR, M., GOHARSHADY, A.K., HOOSHMANDASL, M.R., AND SHAKIBA, A. Optimal Mining: Maximizing Cryptocurrency Miners' Revenues through Parameterization, Submitted to Information and Computation.
3. KHALILI, S. AND SHAKIBA, A. A face detection method via ensemble of four versions of YOLOs, submitted to The 12th Iranian and the second International Conference on Machine Vision and Image Processing (MVIP'2022).

WORKING PAPERS

1. RAJAATI, M., MEYBODI, M.A., HOOSHMANDASL, M.R., DAVVAZ, B. AND SHAKIBA, A. Explicit construction of Mixed Dominating Sets in Petersen Graphs.
2. IRANMANESH, H. AND SHAKIBA, A. Customer segmentation of customers using their transaction history: A case-study in the “Mim” personal financial management system, in Persian.
3. JAHANGIRIAN, H., SHAKIBA, A., KESHAVARZI, M. Improving the running-time of a density-based clustering algorithm using an index-based data structure.

WORKSHOPS & TALKS

- Security+ for IT Staff*, Vali-e-Asr University of Rafsanjan, 2021
- Storage+ for IT Staff*, Vali-e-Asr University of Rafsanjan, 2021
- Linux+ for IT Staff*, Vali-e-Asr University of Rafsanjan, 2021
- CCNA Security*, Vali-e-Asr University of Rafsanjan, 2020
- IT Infrastructure Monitoring with Zabbix*, Vali-e-Asr University of Rafsanjan, 2019
- Using High Performance Computing Facilities in Big Data Analytics with R*, Vali-e-Asr University of Rafsanjan, 2019.
- Parameterized Complexity and Algorithms: A Narration of My Own Adventures!*, Vali-e-Asr University of Rafsanjan, 2019.
- Scientific Typesetting using L^AT_EX and friends*, Vali-e-Asr University of Rafsanjan, 2018.
- How do I use the HPC facilities at the VRU?*, Vali-e-Asr University of Rafsanjan, 2017.
- GNU/Linux and bash scripting for Physicists*, Yazd University, 2015
- Adiabatic Quantum Computers Meet Optimization Problems*, Graduate University of Advanced Technology, 2012.

ADVISING PH.D. STUDENTS

1. *Dg Senandong Ajor*, Yazd University, 2021-Now
Dissertation Title: Ensemble learning with S-approximation spaces.
Supervised by Prof. Dr. M.R. Hooshmandasl & Prof. Dr. B. Davvaz
Co-advised by Dr. E. Abbasizadeh
2. *Sudabeh Azimi Lome Dasht*, Mohaghegh Ardabili University, 2021-Now
Dissertation Title: Coverings and approximation spaces.
Supervised by Prof. Dr. M.R. Hooshmandasl & Prof. Dr. N. Zamani
3. *Maliheh Hashemipour*, Yazd University, 2014-2020
Dissertation Title: On outer-connected domination number of graphs.
Supervised by Prof. Dr. M.R. Hooshmandasl
She is currently an Assistant Professor of Computer Engineering at Islamic Azad University of Kerman.
4. *Mohsen Alambardar Meybodi*, Yazd University, 2014-2019
Dissertation Title: On domination cover number of graphs.
Supervised by Prof. Dr. M.R. Hooshmandasl
He is currently an Assistant Professor of Computer Science at Isfahan University.

5. *Meysam Rajaati Babil Olyia*, Yazd University, 2014-2019
Dissertation Title: On mixed domination number of graphs.
Supervised by Prof. Dr. M.R. Hooshmandasl

SUPERVISING OR
ADVISING M.SC.
STUDENTS

1. *Bakhtyar Ahani*, Vali-e-Asr University of Rafsanjan, 2015-2018
Thesis Title: Sentiment analysis for product aspect extraction.
Supervised by Dr. M. Sabbagh Jaffari
2. *Saranaz Abdollahi*, Vali-e-Asr University of Rafsanjan, 2015-2018
Thesis Title: Construction of a Knowledge map using papers clustering.
Supervised by Dr. M. Sabbagh Jaffari
3. *Samira Ahmadi*, Vali-e-Asr University of Rafsanjan, 2015-2018
Thesis Title: Age estimation from facial images with deep learning.
Supervised by Dr. M. Keshavarzi
4. *Farzaneh Kheirmand Parizi*, Vali-e-Asr University of Rafsanjan, 2016-2019
Thesis Title: Differential privacy in frequent itemset mining.
5. *Maryam Mirzaei*, Vali-e-Asr University of Rafsanjan, 2016-2019
Thesis Title: An overview of stream data clustering algorithms.
Co-supervised by Dr. M. Keshavarzi
6. *Zahra Karami*, Vali-e-Asr University of Rafsanjan, 2016-2019
Thesis Title: Vehicle make and model recognition in traffic-control camera images.
Supervised by Dr. M.R. Heydarian
7. *Sajjad Dehshiri*, Vali-e-Asr University of Rafsanjan, 2017-Now
Thesis Title: Improving the Louvain graph clustering algorithm using CRank measures.
8. *Fatemeh Ebrahimi*, Vali-e-Asr University of Rafsanjan, 2017-Now
Thesis Title: Community detection using density-based algorithm in reverse nearest neighborhood graph.
Supervised by Dr. M. Keshavarzi
9. *Morteza Askari*, Vali-e-Asr University of Rafsanjan, 2017-2020
Thesis Title: Automatic identification of heavy vehicle type.
Supervised by Dr. M.R. Heydarian
10. *Mehrsa Farhadi*, Vali-e-Asr University of Rafsanjan, 2017-2020
Thesis Title: Identifying the personality from signatures with deep learning.
Supervised by Dr. M.R. Heydarian
11. *Mina Rabbani*, Vali-e-Asr University of Rafsanjan, 2017-2020
Thesis Title: Identifying drivers behind the windshield.
Co-supervised by Dr. M.R. Heydarian
12. *Sanaz Khalili*, Vali-e-Asr University of Rafsanjan, 2018-2021
Thesis Title: Real-time object detection in digital images using deep learning.
Co-supervised by Dr. M.R. Heydarian
13. *Zahra Shabani*, Vali-e-Asr University of Rafsanjan, 2018-2021
Thesis Title: Spatial pyramid pooling in deep convolutional networks for visual recognition.
Co-supervised by Dr. M.R. Heydarian
14. *Amirhossein Ghotbeddini*, Vali-e-Asr University of Rafsanjan, 2018-2021
Thesis Title: Image segmentation with fast density clustering.

15. *Hossein Jahangirian*, Vali-e-Asr University of Rafsanjan, 2018-2021
Thesis Title: An efficient algorithm for structural graph clustering with indexed data structures.
Co-supervised by Dr. M. Keshavarzi
16. *Hossein Iranmanesh*, Vali-e-Asr University of Rafsanjan, 2018-2021
Thesis Title: Customer segmentation of users in “Mim” personal financial management system based on their transactions.
17. *Mohammad Mahdi Iranmanesh*, Vali-e-Asr University of Rafsanjan, 2019-Now
Thesis Title: SNN-based clustering by fast density peaks clustering.
18. *Mahnaz Mirzaei*, Vali-e-Asr University of Rafsanjan, 2019-Now
Thesis Title: A fast clustering algorithm for large-scale data.
19. *Motahhare Entezami*, Vali-e-Asr University of Rafsanjan, 2019-Now
Thesis Title: A density-based clustering algorithm using local density and nearest neighbor graph.
20. *Mostafa Hasani*, Vali-e-Asr University of Rafsanjan, 2020-Now
21. *Fatemeh Karami*, Vali-e-Asr University of Rafsanjan, 2020-Now
22. *Fateme Nasiri*, Vali-e-Asr University of Rafsanjan, 2020-Now

TEACHING
EXPERIENCE

1. ADVANCED ALGORITHMIC DESIGN TECHNIQUES (Graduate course): Spring’2021 (with emphasis on Parameterized Algorithms), Spring’2020 (with emphasis on Approximation Algorithms), Fall’2019 (with emphasis on Randomized Algorithms), Spring’2019 (with emphasis on Graph Algorithms).
2. COMPUTATIONAL DATA MINING (Graduate course): Fall’2021, Fall’2020, Fall’2019, Fall’2018.
3. COMPUTER VISION (Graduate course): Spring’2020.
4. THEORY OF COMPUTER SCIENCE (Graduate course): Spring’2019, Fall’2018, F’2017, F’2016.
5. DATA MINING: Spring’2021, Fall’2018, Spring’2018, Spring’2017.
6. ARTIFICIAL INTELLIGENCE: Fall’2021.
7. SECURE COMPUTING: Fall’2021, Fall’2020, Fall’2019, Fall’2018, Spring’2018, Fall’2017.
8. SCIENTIFIC COMPUTING: Spring’2021.
9. INTRODUCTION TO COMPUTABILITY: Spring’2020, Fall’2016.
10. DATA STRUCTURES AND ALGORITHMS: Spring’2021 (with Java), Spring’2019 (with C++).
11. FUNDAMENTALS OF DATABASE SYSTEMS: Fall’2019.
12. OPERATING SYSTEMS: Spring’2018.
13. PROGRAMMING WITH FORTRAN 90 FOR PHYSICISTS: Spring’2021, Fall’2020, Spring’2020, Spring’2019, Fall’2018, Spring’2018, Fall’2017, Spring’2017, Fall’2016.
14. INTRODUCTION TO COMPUTING FOR MANAGEMENT STUDENTS: Spring’2019.
15. PRINCIPLES OF COMPUTER SYSTEMS: Fall’2015 (while I was a Ph.D. candidate at Yazd University).
16. INTRODUCTION TO MATHEMATICAL SOFTWARE PACKAGES: Spring’2014 (while I was a Ph.D. candidate at Yazd University).
17. FUNDAMENTALS OF COMPUTER PROGRAMMING (C++): Fall’2013 (while I was a Ph.D. candidate at Yazd University).

ACADEMIC
POSITIONS

Deputy of the Information Technology Department at Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran - Since May 2018

Director of the High Performance Computing Center at Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran - June 2017 until May 2018

Member of the International Affairs Committee at the Faculty of Mathematical Sciences, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran - Since September 2017

Member of the Graduate Studies Committee at the Faculty of Mathematical Sciences, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran - September 2017 until November 2021

Assistant Professor (Tenure-track) at the Department of Computer Science, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran - Since September, 2016

Research Assistant at the Laboratory of Quantum Information Processing, Yazd University, Yazd, Iran - June, 2012 until May 2017

ACADEMIC
SERVICES

Reviewer for the AMS Mathematical Reviews since November 2016

Reviewer for the zbMATH Open since August 2021

Reviewer for IEEE Transactions on Fuzzy Systems, Electronics Letters (The IET), Soft Computing, IEEE Access, Cogent Mathematics and Journal of Computational Methods in Sciences and Engineering

Reviewer for ECML PKDD'20, International ISC Conference on Information Security and Cryptology'13,'14,'16,'17,'18,'19,'20,'21 and CEITCONF'18,'19.

Member of Scientific Committee for International ISC Conference on Information Security and Cryptology'21.

MEMBERSHIPS IN
ACADEMIC
SOCIETIES

International Rough Set Society (IRSS), Since 2014

Association for Computing Machinery (ACM), 2014 - 2018

Iranian Mathematical Society (IMS), 2016 - 2017

Society for Industrial and Applied Mathematics (SIAM), 2016-2016

Institute of Electrical and Electronics Engineering (IEEE), 2014-2016

Iranian Fuzzy System Society (IFSS), 2014-2016

SKILLS & HOBBIES Language Proficiency: Persian, English
Programming Experience: Python, C++, Java, Fortran, NumPy, SciPy, Matplotlib, Tensorflow, Keras, Pandas, sci-kit learn, MATLAB, Hadoop, OpenMP
Information Technology: Configuring Fortinet Fortigate Firewalls, Cisco Switches, MikroTik RouterOS, Veeam Backup and Replication, VMware Virtualization Technology (ESXi, vSphere), FreeNAS (Network Attached Storage), Zabbix, Linux.
Hobbies: Biking, Playing Chess, Coding, Learning various IT technologies.

REFERENCES

Prof. A.K. Goharshady

Hong-Kong University of Science and Technology, Hong-Kong
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Prof. M.R. Hooshmandasl

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Prof. M.H. Heydari

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Prof. M. Alambardar Meybodi

Assistant Professor of Computer Science at Isfahan University, Iran
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Prof. M.R. Heydarian

Assistant Professor of Computer Science at Vali-e-Asr University of Rafsanjan, Iran
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