

Curriculum Vitae

Jafar Razmara



Personal details:

Full name: **Jafar Razmara**
Sex: Male
Marital Status: Married
Date of Birth: Dec 1972
Nationality: Iranian
Language Skill: Persian (native), Turkish (native), English (good)

Present position:

Academic position: Professor
Department: Department of Computer Science, Faculty of Mathematics, Statistics, and Computer Science, University of Tabriz
Campus address: 29 Bahman Boulevard, University of Tabriz, 5166614766, Tabriz, Iran
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Educational background:

PHD: 2009 to 2012 Computer Science, Universiti Teknologi Malaysia, Johor Bahru, Malaysia,
Thesis: "Text-Based Protein Structure Modeling for Structural Comparison"
M.Sc. (Eng.): 1996 to 1998, Computer Engineering (Software Eng.), Tarbiat Modarres University, Tehran,
Thesis: "Multi-Source Remote Sensing Images Classification Using Neural Networks"
B.Sc. (Eng.): 1991 to 1995, Computer Engineering (Software Eng.), Isfahan University of Technology,
B.Sc. Project: "Object-Oriented Database Design and Implementation"

Academic experiences

2025 – Now: Professor at University of Tabriz, Tabriz – Iran
2013 – 2025: Associate Prof. at University of Tabriz, Tabriz – Iran
2016 – 2019: Head of the department, Department of Computer Science, University of Tabriz, Tabriz – Iran
2012 – 2013: Senior lecturer at Universiti Teknologi Malaysia, Johor – Malaysia
2003 – 2008: Lecturer at Shahid Madani University of Azarbaijan, Tabriz – Iran
1999 – 2003: Lecturer at Sahand University of Technology, Tabriz – Iran

Academic awards

- 2008-2011: Awarded the International Doctoral Fellowship (IDF) From Universiti Teknologi Malaysia.
- Best Paper Award: J. Razmara, S. Deris, S. Parvizpour, “Text-Based Protein Structure Modeling for Structure Comparison”, Int. Conf. of Soft Computing and Pattern Recognition (SOCPAR), December 2009

Journal Reviewer

- Artificial Intelligence Review, Springer
- Biomedical Informatics Journal, Elsevier Inc.
- Machine Learning, Springer
- PLOS ONE, PLOS/Public Library of Science
- Symmetry, MDPI Publishing Inc.
- Expert Systems, Blackwell Publishing Inc.
- Health Informatics Journal, SAGE Publishing Inc.
- Evolutionary Bioinformatics Journal, SAGE Publishing Inc.

Conference organizing collaboration

- 2014: Chair of the scientific committee, 2nd Computer Science Conference on Computer and Information Technology, University of Tabriz, Tabriz, Iran
- 2015: Chair of the publication committee, 3rd International Symposium on Computer Science and Software Engineering, University of Tabriz, Tabriz, Iran

Courses on teaching and research

- 2020: Workshop on virtual teaching methodologies, University of Tabriz, Tabriz – Iran
- 2019: Workshop on teaching methods and strategies, University of Tabriz, Tabriz – Iran
- 2019: Workshop on principles of ethics in teaching, University of Tabriz, Tabriz – Iran
- 2019: Workshop on History of Science, University of Tabriz, Tabriz – Iran
- 2013: Workshop on how to write a research paper?, Universiti Teknologi Malaysia, Johor – Malaysia
- 2012: Workshop on teaching methodology, Universiti Teknologi Malaysia, Johor – Malaysia
- 2011: Workshop on writing journal papers, Universiti Teknologi Malaysia, Johor – Malaysia
- 2009: Research methodology workshop, Universiti Teknologi Malaysia, Johor – Malaysia

Journal papers

- 1) **J. Razmara**, S. Parvizpour, H. Tabrizchi, "Tracing drugs from discovery to disposal", *Drug Discovery Today*, 2023, 103538.
- 2) H. Tabrizchi, **J. Razmara**, A. Mosavi, "Thermal Prediction for Energy Management of Clouds Using a hybrid model based on CNN and Stacking Multi-Layer Bi-directional LSTM", *Energy Reports*, 2023, 9: 2253-2268.
- 3) F. Zadsafar, H. Tabrizchi, S. Parvizpour, **J. Razmara**, S. Lotfi, "A model for mesothelioma cancer diagnosis based on feature selection using Harris hawk optimization algorithm", *Computer Methods and Programs in Biomedicine*, 2022, 100078.
- 4) H. Tabrizchi, S. Parvizpour, **J. Razmara**, "An improved VGG model for skin cancer detection", *Neural Processing Letters*, 2022, doi:10.1007/s11063-022-10927-1.
- 5) M. Ziraksima, S. Lotfi, **J. Razmara**, "Deep reinforcement learning in loop fusion problem", *Neurocomputing*, 2022, 481: 102-120.
- 6) S. Parvizpour, A. Elengoe, E. Alizadeh, **J. Razmara**, M.S. Shamsir, "In silico targeting breast cancer biomarkers by applying rambutan (*Nephelium lappaceum*) phytochemicals", *Journal of Biomolecular Structure and Dynamics*, 2022, 1-14.
- 7) M. Salehi, **J. Razmara**, S. Lotfi, F. Mahan, "A one-dimensional probabilistic convolutional neural network for prediction of breast cancer survivability", *The Computer Journal*, 2021, 65(10): 2641-2653.
- 8) H. Khojamli, **J. Razmara**, "Survey of similarity functions on neighborhood-based collaborative filtering", *Expert Systems with Applications*, 2021, 185: 115482.
- 9) S. Parvizpour, Y. Masoudi-Sobhanzadeh, M.M. Pourseif, A. Barzegari, **J. Razmara**, Y. Omidi, "Pharmacoinformatics-based phytochemical screening for anticancer impacts of yellow sweet clover, *Melilotus officinalis* (Linn.) Pall", *Computers in Biology and Medicine*, 2021, 138: 104921.
- 10) S. Mirzaei, **J. Razmara**, S. Lotfi, "GADP-align: A genetic algorithm and dynamic programming-based method for structural alignment of proteins", *Bioimpacts*, 2021, 11(4): 271.
- 11) F. Mirjalili, **J. Razmara**, "An intelligent behavior-based intrusion detection method for virtual machines", *Signal and Data Processing*, 2021, 18(2): 135-146.
- 12) M. Salehi, **J. Razmara**, S. Lotfi, "Developing an ensemble multi-stage machine for prediction of breast cancer survivability", *Journal of AI and Data Mining*, 2020, 8(3): 371-378.
- 13) M. Salehi, **J. Razmara**, S. Lotfi, "A novel data mining on breast cancer survivability using MLP ensemble learners", *The Computer Journal*, 2020; 63(3): 435-447.
- 14) S. Parvizpour, N. Hussin, M.S. Shamsir, **J. Razmara**, "Psychrophilic enzymes: structural adaptation, pharmaceutical and industrial applications", *Applied microbiology and biotechnology*, 2020, 105(3): 899-907.
- 15) S. Parvizpour, **J. Razmara**, M. Pourseif, Y. Omidi, "Epitope-based vaccine design: a comprehensive overview of bioinformatics approaches", *Drug Discovery Today*, 2020, 25(6): 1034-1042.
- 16) A.F. Jomah, S. Parvizpour, **J. Razmara**, "In silico Analysis of" Interferon Beta 1" In some Selected Animal Species", *Indian Journal of Forensic Medicine & Toxicology*, 2020, 14 (2).

- 17) A. Morshedian, **J. Razmara**, S. Lotfi, “A novel approach for protein structure prediction based on an estimation of distribution”, *Soft Computing*, 2019, 23: 4777–4788.
- 18) S. Parvizpour, **J. Razmara**, M. Pourseif, Y. Omidi, “In silico design of a triple-negative breast cancer vaccine by targeting cancer testis antigens”, *Bioimpacts*, 2019, 9(1):55-64.
- 19) S. Parvizpour, A. F. Jomah, **J. Razmara**, “Structural and Functional Analysis of Mutated Human Pyrin B30.2 Domain”, *Current Proteomics*, 2019, 17(1).
- 20) **J. Razmara**, M.H. Zaboli, H. Hassankhani, “Elderly fall risk prediction based on a physiological profile approach using artificial neural networks”, *Health Informatics Journal*, 2018, 24(4):410-418.
- 21) H. Kakaei, **J. Razmara**, A. Isazadeh, “A novel fast and secure approach for voice encryption based on DNA computing”, *3D Research*, 2018, 9(17).
- 22) S. Parvizpour, **J. Razmara**, Y. Omidi, “Breast cancer vaccination comes to age: impacts of bioinformatics”, *Bioimpacts*, 2018, 8(3):223-235.
- 23) S. Parvizpour, **J. Razmara**, S. Shahir, “Temperature adaptation analysis of a psychrophilic mannanase through structural, functional and molecular dynamics simulation”, *Molecular Simulation*, 2018, 44(15).
- 24) F. S. Mohajer, S. Parvizpour, **J. Razmara**, S. Shamsir, “The two mutations of actin–myosin interface and their effect on the dynamics, structures, and functions of skeletal muscle actin”, *Journal of Biomolecular Structure and Dynamics*, 2018, 37(2):372-382.
- 25) F. S. Mohajer, S. Parvizpour, **J. Razmara**, M. Khoshkhooy, S. Shahir, “Structural, functional and molecular dynamics analysis of the native and mutated actin to study its effect on congenital myopathy”, *Journal of Biomolecular Structure and Dynamics*. 2017, 35(7).
- 26) S. Parvizpour, **J. Razmara**, S. Shahir, R. Illias, A. M. A. Murad, “The role of alternative salt bridges in cold adaptation of a novel psychrophilic laminarinase”, *Journal of Biomolecular Structure and Dynamics*. 2017, 35(8).
- 27) S. Mohammadi, S. Parvizpour, **J. Razmara**, F. D. Abu Bakar, R. Illias, N. M. Mahadi, A. M. Abdul Murad, “Structure prediction of a novel Exo-b-1,3-Glucanase: Insights into the cold adaptation of psychrophilic yeast *Glaciozyma antarctica* PI12”, *Interdisciplinary Science: Computational Life Science*, 2016, 10(1):157-168.
- 28) S. Parvizpour, **J. Razmara**, A. Jomah, R. Illias, S. Shahir, “Structural prediction of a novel laminarinase from the psychrophilic *Glaciozyma antarctica* PI12 and its temperature adaptation analysis”, *Journal of Molecular Modeling*, 2015, 21(3):2617.
- 29) S. Parvizpour, **J. Razmara**, A. M. Ramli, R. Illias, S. Shahir, “Structural and functional analysis of a novel psychrophilic β -mannanase from *Glaciozyma antarctica* PI12”, *Journal of Computer-Aided Molecular Design*, 2014, 28:685-698.
- 30) **J. Razmara**, S. Fotoohi, S. Parvizpour, “Flexible protein structure alignment based on topology string alignment of secondary structure”, *Int. J. of e-Education, e-Business, e-Management, and e-Learning*, August 2013, DOI: 10.7763/IJEEEE.

- 31) **J. Razmara**, S. Deris, S. Parvizpour, “A context evaluation approach for protein structure comparison using cross entropy over n-gram modeling”, *Computers in Biology and Medicine*, 2013, 43(10): 1614–1621.
- 32) **J. Razmara**, S. Deris, R. Illias, S. Parvizpour, “Artificial signal peptide prediction by a hidden Markov model to improve protein secretion via *Lactococcus lactis* bacteria”, *Bioinformation*, 2013, 9(7): 345-348.
- 33) **J. Razmara**, S. Deris, S. Parvizpour, “TS-AMIR: A topology string alignment method for intensive rapid protein structure comparison”, *Algorithms for Molecular Biology*, 2012, 7(4).
- 34) **J. Razmara**, S. Deris, S. Parvizpour, “A rapid protein structure alignment algorithm based on a text modeling technique”, *Bioinformation*, 2011, 6(9): 344-347.
- 35) **J. Razmara**, S. Deris, “A novel text modeling approach for structural comparison and alignment of proteins”, *WSEAS Trans. On Computers*, 2010, 9: 675-685.

Conference papers

- 1) H. Tabrizchi, **J. Razmara**, A. Mosavi, A.R. Varkonyi-Koczy, “Deep learning applications for COVID-19: A brief review”, *International Conference on Global Research and Education*, 2022, 117-130.
- 2) H.B. Giglou, T. Rahgouy, M. Rahgouy, **J. Razmara**, “UoT-UWF-PartAI at SemEval-2021 Task 5: Self Attention Based Bi-GRU with Multi-Embedding Representation for Toxicity Highlighter”, The 15th International Workshop on Semantic Evaluation, 2021.
- 3) H.B. Giglou, **J. Razmara**, M. Rahgouy, M. Sanaei, “LSACoNet: A Combination of Lexical and Conceptual Features for Analysis of Fake News Spreaders on Twitter”, CLEF 2020, 22-25 September 2020, Thessaloniki, Greece.
- 4) A. Morshedian, E. Maiqani, **J. Razmara**, S. Lotfi, “Memetic Estimation of Distribution Algorithm (MEDA)”, 3rd Int. Conf. on Soft Computing, November 2019, Iran.
- 5) N. Khalili, A. Morshedian, **J. Razmara**, F. Mahan, “Rule extraction using fuzzy C-means clustering and an extreme learning machine”, 3rd Int. Conf. on Soft Computing, November 2019, Iran
- 6) S. Mirzaei, **J. Razmara**, S. Lotfi, “GADP_align: A hybrid method for structural alignment of proteins using genetic algorithm and dynamic programming techniques”, 3rd Int. Conf. on Soft Computing, November 2019, Iran.
- 7) **J. Razmara**, S. Deris, S. Parvizpour, “A method for multiple structural alignment of proteins using text modeling techniques”, 2014 7th International Conference on Advanced Computer Theory and Engineering (ICACTE 2014), August 2014, Singapore.
- 8) **J. Razmara**, S. Deris, S. Parvizpour, “Protein structure modeling in two-level topology strings for structure comparison”, Signal-Image Technology and Internet-Based Systems Conference (SITIS 2010), December 2010, Kuala Lumpur, Malaysia.
- 9) **J. Razmara**, S. Deris, R.M. Illias, “Structural alignment of biomolecules by text modeling techniques”, International Conference on Applications of Computer Engineering, March 2010, Penang, Malaysia.

- 10) **J. Razmara**, S. Deris, S. Parvizpour, “Text-based protein structure modeling for structure comparison”, International Conf. of Soft Computing and Pattern Recognition (SOCPAR), December 2009, Melacca, Malaysia.
- 11) **J. Razmara**, S. Deris, “A novel method for protein 3D-structure similarity measure based on n-gram modeling”, IEEE Conference on Bioinformatics and Bioengineering, September 2008, Athens, Greece.
- 12) **J. Razmara**, M. Shokrollahi-Far, “Multi-source machine learning of remote sensing images, Remote Sensing Arabia, May 2005, Riyadh-Saudi Arabia.
- 13) **J. Razmara**, A model for classifying multisource remote sensing images by Kohonen neural networks, IEEE Geoscience and Remote Sensing Symposium, June 2004, 6, 3849–3852, Anchorage, USA.
- 14) **J. Razmara**, N. Moghadam, A. Alimohamadi, “A model for classifying multi-source remote sensing images by Kohonen neural networks”, International CSI Computer Conf., March 2000, Shahid Beheshti University, Tehran-Iran.

Book Chapters

- 1) **J. Razmara**, S. Deris, “Signal peptide description and modeling by hidden Markov model to improve protein secretion in Lactococcus lactis bacteria”, Advances in Bioinformatics (UTM Press), In Press.
- 2) **J. Razmara**, S. Deris, “Text modeling approach for protein structure similarity measurement”, Advances in Bioinformatics (UTM Press), 2008, Chapter 10, pp.146-168.

Research projects

- 1) “Credit card fraud detection”
(2021-now, University of Tabriz)
- 2) “A deep model for skin cancer diagnosis”
(2021-now, University of Tabriz)
- 3) “In silico design of an epitope-based vaccine against breast cancer”
(2017-2020, Tabriz University of Medical Sciences)
- 4) “Elderly fall risk prediction based on a physiological profile approach”
(2014-2015, University of Tabriz)
- 5) “Flexible protein structure alignment based on text modeling techniques”
(2012-2013, Universiti Teknologi Malaysia)
- 6) “Study and design an E-Learning system for Nabi Akram higher education institute”
(2003-2004, Nabi Akram Higher Education Institute)
- 7) “Designing a statistical model for flood prediction”
(2002-2005, Sahand University of Technology)

Technical experiences

1996 – 1998: Database system Analyst and programmer, UniSys Co., Tehran, Iran.

1994 – 1995: Database system analyst and programmer, Noor Co., Tehran-Iran.

Supervision

- Supervised 6 PhD thesis and supervising 7 PhD students' thesis

- Supervised more than 40 MSc student's dissertation

Course presentations:

- Machine Learning (Postgraduate)

- Bioinformatics (Postgraduate)

- Advanced Database (Postgraduate)

- Advanced Artificial Intelligence (Postgraduate)

- Database systems (Undergraduate)

Research fields of interest

- Machine learning, Soft Computing, Pattern-recognition, Knowledge-based Systems

- Bioinformatics, Computational Biology

- Data mining, Database applications

Programming language skills

- Python, C and C++, R, PHP

- MySQL, SQL Server