



Javad Mehri-Tekmeh

Curriculum Vitae

Citizenship: Iran

Education

- January 2007 **Ph.D. in Applied Mathematics**, *University of Tabriz*, Tabriz, Iran.
April 1999 **M.Sc. in Applied mathematics**, *University of Tabriz*, Tabriz, Iran.
February 1995 **B.Sc. in Mathematics Applied in Computer Science**, *Yazd University*, Yazd, Iran.

Thesis

PhD Thesis

- Title *Some results on domination numbers of complete grid graphs*
Supervisors Professor Kamal Mirnia
Description Major: Operations research

Masters Thesis

- Title *A primal-dual Interior point method whose running time depends only on the constraint matrix*
Supervisors Professor Kamal Mirnia
Description Major: Operations research

Experience

Position & Affiliation

- 2015–2020 **Supervisor of PhD Thesis**, *Faculty of Mathematical Sciences*, University of Tabriz, Tabriz, Iran.
2015–2016 **Coordinator**, *Department of Computer Science*, Khazar University, Baku, Republic of Azerbaijan.
2014–2016 **Associate Professor**, *Department of Computer Science*, Khazar University, Baku, Republic of Azerbaijan.

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- 2008–2010 **Dean of the Library**, *Faculty of Mathematical Sciences*, University of Tabriz, Tabriz, Iran.
- 2007–2014 **Assistant Professor**, *Department of Applied Mathematics*, University of Tabriz, Tabriz, Iran.

Organization

- 2015 **Organizer of the workshop**, *Robotics*, Khazar University, Baku, Azerbaijan.
- 2015 **A member of the Organizing Committee**, *Khazar 1st Annual Robotics Competition*, Khazar University, Baku, Azerbaijan.
- 2015 **A session chair**, *International Symposium of Science and Technology in Islamic Civilisation*, Khazar University, Baku, Azerbaijan.
- 2012 **A member of the Scientific Committee**, *International Conference of Industrial Engineering and Management (ICIEM 2012)*, Zhengzhu, China.
- 2012 **A member of the Scientific Committee**, *43rd Annual Iranian Mathematics Conference (AIMC43)*, University of Tabriz, Tabriz, Iran.
- 2011 **Reviewer for the conference**, *First CSUT Conference on Computer, Communication and Information Technologies (CSCCIT)*, University of Tabriz, Tabriz, Iran.
- 2010 **A member of the Organizing Committee**, *10th Iranian Statistical Conference (ISC10)*, University of Tabriz, Tabriz, Iran..

Academic

- 2013 **Invited instructor (part time)**, *Department of Computer Art*, Tabriz Islamic Art University, Tabriz, Iran.
- 2012 **Invited instructor (part time)**, *Department of Mathematics*, Azad Islamic University of Khoy, Khoy, Iran.
- 2010 **Invited instructor (part time)**, *Department of Computer Engineering*, University of Bonab, Bonab, Iran.
- 2008 **Invited instructor (part time)**, *Department of Information Technology*, Azarbaijan Shahid Madani University (former: Azarbaijan University of Tarbiat Moallem), Tabriz, Iran.
- 2005-2006 **Part time lecturer**, *Department of Computer Engineering*, Islamic Azad University of Shabestar, Shabestar, Iran.
- 2004-2005 **Part time lecturer**, *Department of Basic Sciences*, Islamic Azad University of Sarab, Sarab, Iran.
- 1998-2004 **Part time lecturer**, *Department of Computer Engineering*, Islamic Azad University of Shabestar, Shabestar, Iran.
- 1997 **Part time lecturer**, Payam Noor University of Maku, Maku, Iran.

Vocational

- GAMA Co. **Technical advisor**, DEHKADE SALAMAT (HEALTH VILLAGE) *game developing*, 2011, Tabriz,Iran.
- GAMA Co. **Chief Executive Officer (CEO)**, GOHAR ANDISHAN MANDEGAR AZAR CO. (GAMA), 2008-2010, Tabriz, Iran.

Taysizlar Co. **Chief Executive Officer (CEO)**, 2007-2008, Tabriz, Iran.

Awards

- 2001 Scholarship of Ministry of Science, Research and Technology of Iran for PhD students

Computer skills

Languages & Scripts	GO, PYTHON, C++, C, JAVA, GLSL, SQL, ASSEMBLY, T _E X, SML, DELPHI, PASCAL, FORTRAN, BASIC, COBOL, GPSS
Web developing	HTML, CSS, ASP, JAVASCRIPT, PHP
Operating systems	MICROSOFT WINDOWS (95, 98, 2000, XP, VISTA, 7, 8, 10), LINUX, MS DOS, UNIX, ANDROID
Softwares	RSTUDIO, MICROSOFT OFFICE PACKAGE, MATLAB, MAPLE, WIN QSB, LINGO, LINDO, AMPL

Languages

Azerbaijani	Mothertongue
Turkish	
Persian	Native
Turkish	Fluent
English	Upper Intermediate
Russian	Lower Intermediate
Arabic	Lower Intermediate
French	Basic

Basic words and phrases only

Research

Areas of interest and expertise

Network flows, Ad Hoc networks, Graph theory, Operations Research, Computer science, Optimization

Publications in journals

- 2020 Abbasnezhad, Nazanin, Mehri-Takmeh, Javad and Vakili, Javad, (2020), The domination over time and its discretisation, Operations Research and Decisions. 1 (2020), 5–24.
- 2019 Morowati-Shalilvand, S., Shahmorad, S., Mirnia, K., Mehri-Tekmeh Javad. Quickest flow over time network interdiction: mathematical formulation and a solution method. Operational Research; Heidelberg Apr. (2019), 1-31. DOI:10.1007/s12351-019-00472-6.
- 2017 Nazanin Abbasnezhad, and Javad Mehri-Tekmeh Using Genetic Algorithm for the Discrete Domination Over Time Problem. International Journal of Nonlinear Science (IJNS). 2017 Dec.; 24(3):169–174.

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- 2015 Zare K, Mehri-Tekmeh J, Karimi S. A SWOT framework for analyzing the electricity supply chain using an integrated AHP methodology combined with fuzzy-TOPSIS. *International Strategic Management Review*. 2015 Dec 31;3(1):66–80, doi:10.1016/j.ism.2015.07.001.
- 2014 Rezaeiniya, N., Ghadikolaei, A. S., Mehri-Tekmeh, J., and Rezaeiniya, H. Fuzzy anp approach for new application: Greenhouse location selection; a case in iran. *Journal of mathematics and computer Science* 8 (2014), 1–20.
- 2013 Morowati Shalilvand, S., and Mehri-Tekmeh, J. An extended origin-based method for solving capacitated traffic assignment problem. *Acta Universitatis Apulensis* 35 (2013), 169–186.
- 2013 Amir Hassani Karbasi, Reza Ebrahimi Atani, Shahabaddin Ebrahimi Atani, and Javad Mehri Tekmeh, Key Pre-distribution Based on Projective Plane by Key Copying And Exchanging Using Dominating Sets in Wireless Sensor Networks, *Journal of Electronics Industries*, Vol. 4, No. 1, (2013), pages 45–54, Persian.
- 2013 Bakhtiari, A., Navid, H., Mehri, J., Berruto, R., and Bochtis, D. D. Operations planning for agricultural harvesters using ant colony optimization. *Spanish Journal of Agricultural Research* 11, 3 (2013), 652–660.
- 2013 Saeed Bostanabad, M., Mehri-Tekmeh, J., Mirnia, M., and Dehkharghani, A. M. The system optimization perspective for multiproduct supply chain network. *An International Journal of Optimization and Control: Theories & Applications* 3, 2 (2013), 153–159, DOI: 10.11121/ijocta.01.2013.00129.
- 2013 Saeed Bostanabad, M., Mehri-Tekmeh, J., and Dehkharghani, A. M. Equity in multiproduct supply chain network. *An International Journal of Optimization and Control: Theories & Applications* 3, 1 (2013), 65–71, DOI: 10.11121/ijocta.01.2013.00128.
- 2012 Morowati, S., and Mehri-Tekmeh, J. Finding most vital links over time in a flow network. *An International Journal of Optimization and Control: Theories & Applications* 2, 2 (2012), 173–186, DOI: 10.11121/ijocta.01.2012.0098.
- 2011 Bakhtiari, A. A., Navid, H., Mehri-Tekmeh, J., and Bochtis, D. D. Optimal route planning of agricultural field operations using ant colony optimization. *Agricultural Engineering International: CIGR Journal* 13, 4 (2011).
- 2006 Mehri-Tekmeh, J., Mirnia, M., and Sheikholeslami, S. M. 3-tuple domination number in complete grid graphs. *International Mathematical Forum* 1, 23 (2006), 1099–1112.
- 2006 Mehri-Tekmeh, J., and Isazadeh, A. A graph theoretic semantics for viewcharts. *International Mathematical Forum* 1, 22 (2006), 1077–1098.
- 2002 Isazadeh, A., Toomanian, M., and Mehri-Tekmeh, J. Viewgraph: An extension to graph theory. *International Mathematics Journal* 2, 10 (2002), 957–969.
- 1999 M. Jabbarzadeh, and J. Mehri. A note on $x^{x^{\dots}}$. *Journal of Mathematics*, Volume 2, Pages 36–42. Tabriz, Iran, 1999. Language: Persian.

Publications in proceedings

- 2015 Mehri-Tekmeh J., Rustamova N. R. and Rzaev S. F., Studying the structural properties of harmonic functions on unit ball by best approximation methods, 7-th International Conference on Mathematical Analysis, Differential Equation & Their Applications MADEA-7 (Baku, Azerbaijan, 2015), page. 112.
- 2013 Daghbandan A., Mehri-Tekmeh J., Saryi A. B. Z., Ranking of The Kachiran company's sales representatives based on amount of credit by neural network technique of type GMDH and genetic algorithm, The first national conference on accounting and management (Shiraz, Iran, 2013), page 70.
- 2013 Mahmoodabadi, E. A., Mehri-Tekmeh, J., and Navin, A. H. An MCDM method for job scheduling algorithm in the grid environment, 10th seminar on Computer and Intelligent Systems (Tabriz, Iran, 2013).
- 2013 Mahmoodabadi, E. A., Mehri-Tekmeh, J., and Navin, A. H. A job scheduling algorithm using effective factors on costumers satisfaction in the grid environment, 10th seminar on Computer and Intelligent Systems (Tabriz, Iran, 2013).
- 2013 Heidarpour, H., Navin, A. H, and Mehri-Tekmeh, J. A fuzzy job scheduling algorithm with time restriction in the grid environment, 10th seminar on Computer and Intelligent Systems (Tabriz, Iran, 2013).
- 2012 Bostanabad, M. S., Mehri-Tekmeh, J., and Mirnia, M. The system optimization perspective for multiproduct supply chain network. In Proceedings of The 43rd Annual Iranian Mathematics Conference (Tabriz, Iran, 2012), pp. 1341–1343.
- 2012 Bostanabad, M. S., Mehri-Tekmeh, J., and Dehkharghani, A. M. Equity in multiproduct supply chain network. In Proceedings of The 43rd Annual Iranian Mathematics Conference (Tabriz, Iran, 2012), pp. 902–904.
- 2012 Abbasnezhad, N., Hajizadeh, R., and Mehri-Tekmeh, J. Robust model for maximum flow problem over time. In Proceedings of The 43rd Annual Iranian Mathematics Conference (Tabriz, Iran, 2012), pp. 165–168. (In persian).
- 2011 Mehri-Tekmeh, J., Ghadikolaei, A. S., and Rezaeinia, N. A fuzzy AHP approach for prioritizing indicators and sub-indicators for greenhouse locating. In proceedings of the 2011 IEEE international conference on industrial engineering and management (China, 2011) DOI: 10.1109/ICMSS.2011.5999417
- 2011 Aghdaie, M. H., Zolfani, S. H., Rezaeinia, N., and Mehri-Tekmeh, J. A hybrid fuzzy mcdm approach for market segments evaluation and selection. In proceedings of the 2011 IEEE international conference on industrial engineering and management (China, 2011).
- 2010 Morowati, S., and Mehri-Tekmeh, J. An extended origin-based method for solving capacitated traffic assignment problem. In Proceedings of NumAn2010 Conference (Chania, Crete, Greece, 2010), pp. 177–182.
- 2009 Mehri-Tekmeh, J., and Morowati, S. A new method for the traffic assignment problem with capacity constraints. In proceedings of the 2nd international conference of Iranian operations research society (Babolsar, Iran, 2009), Persian volume, pp. 246–249. (In persian).

- 2009 Mohamadi, M., and Mehri-Tekmeh, J. A new $n \log n$ algorithm for single machine scheduling problem which minimize maximum completion cost. In proceedings of the 2nd international conference of Iranian operations research society (Babolsar, Iran, 2009), English volume, pp. 72–75.
- 2009 Morowati, S., and Mehri-Tekmeh, J. A modified algorithm for traffic equilibrium. In proceedings of the 40th annual Iranian mathematics conference (Sharif university of technology, Tehran, Iran, 2009).
- 2009 Mehri-Tekmeh, J., and Laleh, S. B. Accpm method to compute traffic assignment problems with elastic demands. In proceedings of the 2nd international conference of Iranian operations research society (Babolsar, Iran, 2009), Persian volume, pp. 65–68. (In persian).
- 2009 Mehri-Tekmeh, J., and Hajizadeh, R. A subgradient optimization model for road network design problem with variable demand. In proceedings of the 40th annual Iranian mathematics conference (Sharif university of technology, Tehran, Iran, 2009).
- 2009 Mehri-Tekmeh, J., and Akrami, H. Formulation of optimal routing for wireless mesh networks with dynamic traffic demand. In proceedings of the 2nd international conference of Iranian operations research society (Babolsar, Iran, 2009), Persian volume, pp. 175–178. (In persian).
- 2005 Mehri-Tekmeh, J., Mirnia, M., and Sheikholeslami, S. M. On the 2-packing numbers of complete grid graphs. In book of abstracts of 35th annual Iranian mathematics conference (Ahvaz, Iran, 2005), p. 56.
- 2000 Isazadeh, A., Toomanian, M., and Mehri-Tekmeh, J. Viewgraph: An extension to graph theory. In proceedings of the 31st Iranian mathematics conference (University of Tehran, Iran, 2000), pp. 2–10.
- 1998 Mehri-Tekmeh, J., and Isazadeh, A. An extension for mealy machine and its application on viewcharts. In proceeding of the 30th Iranian international conference on mathematics (Ardebil, Iran, 1998). (In persian).
- 1998 Mehri-Tekmeh, J., and Mirnia, M. The primal-dual layered step interior point method for linear programming. In proceedings of the first optimization conference and its applications (Ferdowsi university of Mashhad, Iran, 1998), vol. 2, pp. 215–223. (In persian).
- 1998 Isazadeh, A., and Mehri-Tekmeh, J. Information and control systems for production lines. In proceeding of the first annual seminar of automation, robotics & control (ARC) (Tabriz, Iran, 1998), pp. 129–140. (In persian).
- 1997 Isazadeh, A., Mehri-Tekmeh, J., and Kordkandi, H. A. A graph theoretic foundation for viewcharts. In proceeding of the third international annual computer society of Iran computer conference (Iran university of science and technology, Tehran, Iran, 1997), pp. 81–88. (In persian).

Technical Reports

- 2003 J. Mehri. A graph theoretic semantics for Viewcharts. Technical Report, Computer Engineering Department, Islamic Azad University of Shabestar, Shabestar, Iran, March 2003, language: Persian.

- 2000 A. Isazadeh, M. Toomanian, and J. Mehri. Viewgraph: An Extension to Graph Theory. Technical Report, Faculty of Mathematical Science, University of Tabriz, Tabriz, Iran, September 2000.

[Abstracts/Posters](#)

[Previously-supervised & co-supervised Students](#)

Supervisor, co-supervisor and advisor of 3 PhD students and more than 60 Master students.

Academic activities

[Invited talks & workshops](#)

- Oct 2012 **Invited speaker**, *National Seminar on Mathematics and its application in other sciences*, University of Ayatollah Ozma Borujerdi, Borujerd, Iran.
Mathematics in Industry
- May 2012 **Workshop**, *5th International Conference on Iranian Society of Operations Research*, Azarbaijan Shahid Madani University, Tabriz, Iran.
Introduction to mathematical programming using optimization softwares
- Aug 2010 **Workshop**, *10th Iranian Statistical Conference*, University of Tabriz, Tabriz, Iran.
XePersian
- Dec 2009 **Invited speaker**, *Game Developing & Computer Graphics Seminar*, Islamic Azad University of Tabriz, Tabriz, Iran.
Shadows and their computation methods in computer graphics

Teaching and training services

[Teaching in the Khazar University, Republic of Azerbaijan](#)

Undergrad.

- Calculus I & II
- Computer Application in Engineering
- Computer Graphics I
- Operations research
- Introduction to the Theory of Computation
- Fundamental of Computer Programming
- Data Structures
- Object Oriented Programming

Graduate

- Advanced Object Oriented Programming
- Parallel Programming
- Advanced Data Structures
- Operations Management and logistics

Teaching in the university of Tabriz, Iran

Undergrad.

- Operations research I & II
- Graph Theory
- Computer Graphics I
- Machine Language and System Programming
- Fundamental of Computer programming
- Advanced Programming
- File Systems and Structures
- Design and implementation of Programming Languages
- Calculus I
- Numerical Methods

Graduate

- Convex Optimization (PhD Level)
- Advanced Operations Research
- Integer and Network Programming

Teaching in the Islamic Azad University of Khoy, Iran

Graduate

- Advanced Operations Research
- Integer and Network Programming
- Nonlinear programming

Teaching in the Payam Noor University of Tabriz, Iran

Graduate

- Advanced Operations Research
- Integer and Network Programming
- Nonlinear programming
- Transportation planning

Teaching in the Islamic Azad University of Shabestar, Iran

Undergrad.

- Computer Graphics I
- Machine Language and System Programming
- File Systems and Structures
- Design and implementation of Programming Languages

Teaching in the Islamic Art University of Tabriz, Iran

Undergrad.

- Computer Graphics I & II

Teaching in the Azarbaijan Shahid Madani University, Iran

Undergrad.

- Computer Graphics I
- Data Structures and Algorithms

Teaching in the Islamic Azad University of Sarab, Iran

Undergrad.

- Fundamental of Computer Programming
- Advanced Programming
- Data Structure and Algorithms

Teaching in the Payam Noor university Maku branch, Iran

Undergrad.

- pre-calculus
- Applied Calculus for Management

Interests

- Sport
- Traveling