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S.MEHDI TASHAKKORI HASHEMI

Professor

Department of Mathematics and Computer
Science
(Emeritus)

Supervised PhD Theses

#	Thesis title	By	Date
1	Activity based mobility modeling of cellphone users	Shiva Rahimpour & S.Mehdi Tashakkori Hashemi	August 2021
2	Multi-terminal fleet scheduling in fuzzy conditions	Malihe Niksirat & S.Mehdi Tashakkori Hashemi	January 2016

Supervised MSc Theses

#	Thesis title	By	Date
1	role of big in traffic analysis and ATMS(Advanced Traffic Management SYstems)	Salar Salari & S.Mehdi Tashakkori Hashemi	October 2019
2	Adecision support system to determin the traffic congestion pricing	Iman Alidadiani & S.Mehdi Tashakkori Hashemi	October 2018
3	Traffic Sign Detection with using of differnt sensors	Arefe Karimi Andani & S.Mehdi Tashakkori Hashemi	February 2018
4	device-to-device communications in cellular networks in smart cities applications	Arefeh Hosein Pour & S.Mehdi Tashakkori Hashemi	February 2018
5	detection of level of cogestion based on cooperative vehicles daita	Elaf Adil Abbas Al-Hashimi & S.Mehdi Tashakkori Hashemi	May 2017

6	designing of intelligent transportation management systems based on future oriented alarm	Mohammadali Abaei Hezaveh & S.Mehdi Tashakkori Hashemi	February 2017
7	Optimization of CCTV and Speed Cameras usage on Road Networks	Milad Kakouli Varnousfaderani & S.Mehdi Tashakkori Hashemi	February 2016
8	Driver lack of vigilance detection and alerting system using image processing on face	Mehran Golrokhi & S.Mehdi Tashakkori Hashemi	February 2016
9	improvement of speed control systems to enhance safety and harmonize traffic flow	Soodabeh Torabi Ghazvini & S.Mehdi Tashakkori Hashemi	February 2016
10	cellphone network data processing in advanced traveller information system ATIS	Mohammad Javad Faghani Omran & S.Mehdi Tashakkori Hashemi	January 2016
11	Electronic Toll Collection Intelligent System based on Road-Vehicle Evaluation	Maryam Gerami & S.Mehdi Tashakkori Hashemi	October 2014
12	Decision support system for sub-projects budget assignment in pavement management	Ali Rasouli & S.Mehdi Tashakkori Hashemi	October 2014
13	Suspicious Activity Detection In Media Files In Intelligent Transportation Systems	Arman Balali Moghadam & S.Mehdi Tashakkori Hashemi	October 2014
14	Decision Support System for Intelligent Management in Hospital Building in Emergency Cases	Seyedehpaz Rostamkalei & S.Mehdi Tashakkori Hashemi	October 2013
15	Hospital Quality Management Using Building Management System and Patient Status	Sonia Baiee & S.Mehdi Tashakkori Hashemi	October 2013
16	Network design with respect to access , waiting and vehicle time forintegrated public transportation	Majid Jahani & S.Mehdi Tashakkori Hashemi	October 2013
17	The Effect of Randomization in robust optimization applied in shortest-path interdiction network	Kamelia Jammati & S.Mehdi Tashakkori Hashemi	October 2013
18	ranking and web analyzing methods	Mojtaba Rezvani & S.Mehdi Tashakkori Hashemi	November 2012
19	path planning for automatic object guidance under constraints	Masoud Safilian & S.Mehdi Tashakkori Hashemi	October 2012
20	traffic prediction on transportation networks to improve the performance of traffic control systems	Shiva Rahimipour & S.Mehdi Tashakkori Hashemi	October 2012
21	variable speed limits for highways traffic congestion management	Mahnaz Aghamohagheghi & S.Mehdi Tashakkori Hashemi	October 2012
22	turning restriction design problem in traffic net works	Hajar Karimian Sichani & S.Mehdi Tashakkori Hashemi	February 2012
23	The assignment location and improvment of traffic counters and its solution in od matrix	Maryam Fadaei Naeini & S.Mehdi Tashakkori Hashemi	February 2012
24	Evacuation managment using advanced traveler information systems ATIS in traffic networks	Zeynab Samei & S.Mehdi Tashakkori Hashemi	October 2011
25	Traffic management and control with pricing tool	Somayeh Soudmand Kouseh & S.Mehdi Tashakkori Hashemi	October 2011
26	A decision support system for highway managment applying intelligent computation	Shirin Jooybanpour & S.Mehdi Tashakkori Hashemi	October 2011
27	Evacuation routing using multi-objective evolutionary optimization approach-----	Atiyeh Barez & S.Mehdi Tashakkori Hashemi	June 2011

28	Connected facility location by heuristic algorithm	Fatemeh Asadi & S.Mehdi Tashakkori Hashemi	February 2011
29	Hybrid meta = heuristic algorithms for solving Network Design problem-	Rayehe Moienfar & S.Mehdi Tashakkori Hashemi	November 2010
30	Multimodal routing models in improvement transportation network	Malliheh Nicsirat & S.Mehdi Tashakkori Hashemi	October 2010
31	A new approach for clustering in wireless sensor networks	Parvaneh Sharafi & S.Mehdi Tashakkori Hashemi	February 2010
32	time - dependent shortest paths through a fixed sequence of nodes	Shaghayegh Mokarami & S.Mehdi Tashakkori Hashemi	December 2009
33	an adaptive model for news representation with respect to users preferences	Fatemeh Keshavarzi & S.Mehdi Tashakkori Hashemi	September 2009
34	Traffic control o f ATM network designed for corporate networks	Mohsen Abdolhosein Zadeh & S.Mehdi Tashakkori Hashemi	February 2009
35	Optimal design for UMTS network	Afsaneh Karimi & S.Mehdi Tashakkori Hashemi	January 2009
36	INFORMATION VALUE IN SOCIAL MEDIA	Mohammadali Tayebi & S.Mehdi Tashakkori Hashemi	March 2008
37	DESIGN OF AN ACCESS CONTROL ARCHITECTURE IN PERVASIVE COMPUTING ENVIRONMENTS	Saeed Rashwand & S.Mehdi Tashakkori Hashemi	February 2008
38	Symmetric cryptography with cellular automata	Farhad Maleki & S.Mehdi Tashakkori Hashemi	February 2008
39	FINDING THE LEAST EXPECTED TRAVEL TIMES FROM ORIGIN NODE TO DESTINATION NODE WITH ALL POSSIBLE CURRENT - INFORMATION	Mahshid Falsafi & S.Mehdi Tashakkori Hashemi	December 2007
40	COMBINATORIAL OPTIMIZATION, HEURISTICS METAHEURISTICS, TABU SEARCH	Majid Yousefi-Khoshbakht & S.Mehdi Tashakkori Hashemi	December 2007
41	FAST AGLORITHMS FOR HARD GRAPH PROBLEMS IN H-MINOR-FREE GRAPHS	Farnoosh Khodakarami & S.Mehdi Tashakkori Hashemi	December 2006
42	TOBSHOP, SCHEDULING, MAKESPAN, FLOWSHOP HEARISTIC, TABA SEARCH BOTTLENECK PROCEDURE	Peyman Jahanbazi & S.Mehdi Tashakkori Hashemi	December 2006
43	THE MINIMUM POWER CONNECTIVITY PROBLEM IN WIRELESS NETWORKS	Ahmad Moradi & S.Mehdi Tashakkori Hashemi	November 2006
44	CAST-OPTIMAL PLANNING OF UMTS ACCESS NETWORK	Mohsen Rezapour & S.Mehdi Tashakkori Hashemi	November 2006
45	Combined signal setting design and traffic assignment problem	Mehdi Ghatee & S.Mehdi Tashakkori Hashemi	December 2005
46	Selfish routing	Hanieh Amjadi & S.Mehdi Tashakkori Hashemi	December 2005
47	On the symmetric graph drawing in three dimensions	Asiyeh Sanaei & S.Mehdi Tashakkori Hashemi	November 2004
48	Theory and methodolojy time varying minimum cost flow proelem	Majid Ehsanisohi & S.Mehdi Tashakkori Hashemi	February 2004
49	Scheduling a single machine with sequence dependent setup times using ant colony optimization	Mohammad Rashki Ghalehno & S.Mehdi Tashakkori Hashemi	January 2004

50	Topics inoptimal drawing of orthogonal representetions	Maryam Tahmasbi Abdar & S.Mehdi Tashakkori Hashemi	October 2003
51	Dynamicfrequency allocation methods in cellular networks	Mohammad Hossein Ghomian & S.Mehdi Tashakkori Hashemi	April 2003

Journal Papers

Portal Records

- 1 Shiva Rahimpour, Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, Ahmad Nikabadi, "A hybrid of neuro-fuzzy inference system and hidden Markov Model for activity-based mobility modeling of cellphone users", *COMPUTER COMMUNICATIONS*, May 2021 Vol. 173, Num. 1, Page 79-94, May 2021,
- 2 Rayehe Moeinfar, Ahmad Abdollahzadehbarforoush, S.Mehdi Tashakkori Hashemi, "How to identify the requirements for developing self-adaptive software in uncertainty conditions", , April 2018 Vol. 16, Num. 1, Page 15-27, April 2018,
- 3 Malihe Niksirat, S.Mehdi Tashakkori Hashemi, Mehdi Ghatée, "Branch-and-price algorithm for fuzzy integer programming problems with block angular structure", *FUZZY SETS AND SYSTEMS*, August 2016 Vol. 296, Num. 1, Page 70-96, August 2016,
- 4 Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, "Multi-perspective Decision Support System for Hierarchical Bus Transportation Network Design : Tehran Case Study", *International Journal of Transportation Engineering*, September 2014 Vol. 2, Num. 2, Page 107-118, September 2014,
- 5 Somayeh Soudmand Kouseh, Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, "SA-IP method for congestion pricing based on level of service in urban network under fuzzy conditions", *INTERNATIONAL JOURNAL OF CIVIL ENGINEERING*, December 2013 Vol. 11, Num. 4, Page 282-292, December 2013,
- 6 Shiva Rahimpour, Malihe Niksirat, S.Mehdi Tashakkori Hashemi, Mehdi Ghatée, "Application of fuzzy neural networks to predict the speed of the highway network", , July 2012 Vol. 49, Num. 2, Page 15-20, July 2012,
- 7 Malliheh Nicsirat, Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, "Multimodal K-shortest viable path problem in Tehran public transportation network and its solution applying ant colony and simulated annealing algorithms", *APPLIED MATHEMATICAL MODELLING*, July 2012 Vol. 36, Num. 11, Page 5709-5726, July 2012,
- 8 Maryam Fadaei Naeini, Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, "New Modelling for Traffic Counters Location Problem in order to Maximize Path Coverage: Tehran Highways Pilot", , June 2012 Vol. 48, Num. 1, Page 19-23, June 2012,
- 9 Ebrahim Nasrabadi, S.Mehdi Tashakkori Hashemi, "Minimum cost time-varying network flow problems", *Optimization Methods and Software*, June 2010 Vol. 25, Num. 3, Page 429-447, June 2010,
- 10 Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, "Optimal network design and storage management in petroleum distribution network under uncertainty", *ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE*, May 2010 Vol. 22, Num. 4, Page 796-807, May 2010,
- 11 Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, "Application of fuzzy minimum cost flow problems to network design under uncertainty", *FUZZY SETS AND SYSTEMS*, March 2010 Vol. 160, Num. 22, Page 3263-3289, March 2010,
- 12 S.Mehdi Tashakkori Hashemi, Shaghayegh Mokarami, Ebrahim Nasrabadi, "Dynamic shortest path problems with time-varying costs", *Optimization Letters*, January 2010 Vol. 1, Num. 4, Page 0-0, January 2010,
- 13 Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, "Traffic assignment model with fuzzy level of travel demand: An efficient algorithm based on quasi-Logit formulas", *EUROPEAN JOURNAL OF OPERATIONAL RESEARCH*, January 2010 Vol. 194, Num. 2, Page 432-451, January 2010,
- 14 Mehdi Ghatée, S.Mehdi Tashakkori Hashemi, "Some concepts of the fuzzy multicommodity flow problem and their application in fuzzy network design", *MATHEMATICAL AND COMPUTER MODELLING*, December 2009 Vol. 49, Num. 5, Page 1030-1043, December 2009,

- 15 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, Masoud Zarepisheh, Esmail Khorram, "Preemptive priority-based algorithms for fuzzy minimal cost flow problem: An application in hazardous materials transportation", COMPUTERS & INDUSTRIAL ENGINEERING, December 2009 Vol. 57, Num. 1, Page 341-354, December 2009,
- 16 S.Mehdi Tashakkori Hashemi, "Application of fuzzy minimum cost flow problems to network design under uncertainty", Fuzzy Sets and Systems, November 2009 Vol. 22, Num. 160, Page 0-0, November 2009,
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- 19 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, "Optimal network design and storage management in petroleum distribution network under uncertainty", Engineering Applications of Artificial Intelligence, June 2009 Vol. 0, Num. 22, Page 0-0, June 2009,
- 20 Mahdie Hashemi Nejad, S.Mehdi Tashakkori Hashemi, Brendan D.Mckay, "Spherical -Rectangular Drawings", , April 2009 Vol. , Num. 1, Page 0-0, April 2009,
- 21 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, "Traffic assignment model with fuzzy level of travel demand: An efficient algorithm based on quasi-Logit formulas", , April 2009 Vol. , Num. 194, Page 0-0, April 2009,
- 22 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, Mehdi Dehghan, "The solution and duality of imprecise network problems", COMPUTERS & MATHEMATICS WITH APPLICATIONS, April 2009 Vol. 55, Num. 12, Page 2267-2290, April 2009,
- 23 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, "Some concepts of the fuzzy multicommodity flow problem and their application in fuzzy network design", , March 2009 Vol. , Num. 49, Page 0-0, March 2009,
- 24 Mahdie Hashemi Nejad, S.Mehdi Tashakkori Hashemi, Maryam Tahmasbi Abdar, "Ortho -Radial Drawing of Graphs", , March 2009 Vol. , Num. 44, Page 0-0, March 2009,
- 25 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, "Generalized minimal cost flow problem in fuzzy nature: An application in bus network planning problem", APPLIED MATHEMATICAL MODELLING, January 2009 Vol. 32, Num. 12, Page 2490-2508, January 2009,
- 26 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, "Generalized minimal cost flow problem in fuzzy nature: An application in bus network planning problem", , December 2008 Vol. , Num. 32, Page 0-0, December 2008,
- 27 Mehdi Ghatsee, S.Hassan Ghodsypour, S.Mehdi Tashakkori Hashemi, "Multi -Objective Optimization for Signal Planning in SCATS", , December 2008 Vol. 0, Num. 0, Page 0-0, December 2008,
- 28 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, "Ranking function-based solutions of fully fuzzified minimal cost flow problem", INFORMATION SCIENCES, December 2008 Vol. 177, Num. 20, Page 4271-4294, December 2008,
- 29 Ebrahim Nasrabadi, S.Mehdi Tashakkori Hashemi, "Robust Fuzzy Regression Analysis Using Neural Networks", , November 2008 Vol. , Num. 4, Page 0-0, November 2008,
- 30 S.Mehdi Tashakkori Hashemi, Ahmad Moradi, Mohsen Rezapour, "An ACO algorithm to design UMTS access network using divided and conquer technique", , September 2008 Vol. , Num. 21, Page 0-0, September 2008,
- 31 Ardeshir Dolati Malekabad, S.Mehdi Tashakkori Hashemi, "On The Sphericity Testing of Single Source Digraphs", , June 2008 Vol. , Num. 308, Page 0-0, June 2008,
- 32 Mehdi Ghatsee, S.Mehdi Tashakkori Hashemi, Behnam Hashemi, Mehdi Dehghan, "The solution and duality of imprecise network problems", , June 2008 Vol. , Num. 55, Page 0-0, June 2008,
- 33 [en-name N/A], S.Mehdi Tashakkori Hashemi, Masoud Khosravani Moghadam, "On the Upward Embedding on the Torus", , January 2008 Vol. , Num. 1, Page 0-0, January 2008,
- 34 Ebrahim Nasrabadi, S.Mehdi Tashakkori Hashemi, Mehdi Ghatsee, "AN LP-BASED APPROACH TO OUTLIERS DETECTION IN FUZZY REGRESSION ANALYSIS", International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, June 2007 Vol. 15, Num. 4, Page 441-456, June 2007,

- 35 Mehdi Ghaee, S.Mehdi Tashakkori Hashemi, "Descent Direction Algorithm With Multicommodity Flow Problem for Signal Optimization and Traffic Assignment Jointly", , May 2007 Vol. , Num. 188, Page 0-0, May 2007,
- 36 Ebrahim Nasrabadi, S.Mehdi Tashakkori Hashemi, Mehdi Ghaee, "An Lp -Based Approach to Outliers Detection in Fuzzy Regression Analysis", , March 2007 Vol. , Num. 4, Page 0-0, March 2007,
- 37 S.Mehdi Tashakkori Hashemi, Mohsen Rezapour, [en-name N/A], "Two New Algorithm For The Min-Power Broadcast Problem in Static ad Hoc Networks", , January 2007 Vol. , Num. 190, Page 0-0, January 2007,
- 38 Mehdi Ghaee, S.Mehdi Tashakkori Hashemi, "Ranking Function-Based Solutions of Fully Fuzzified Minimal Cost Flow Problem", , January 2007 Vol. , Num. 177, Page 0-0, January 2007,
- 39 S.Mehdi Tashakkori Hashemi, Mehdi Ghaee, Behnam Hashemi, "Fuzzy Goal Programming: Complementary Slackness Conditions and Computational Schemes", , August 2006 Vol. , Num. 179, Page 0-0, August 2006,
- 40 S.Mehdi Tashakkori Hashemi, Mehdi Ghaee, Ebrahim Nasrabadi, "Combinatorial Algorithms for the Minimum Interval Cost Flow Problem", , April 2006 Vol. , Num. 175, Page 0-0, April 2006,
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- 42 S.Mehdi Tashakkori Hashemi, Maryam Tahmasbi Abdar, "A Better Heuristic for Area-Compaction of Orthogonal Representations", , January 2006 Vol. , Num. 172, Page 0-0, January 2006,
- 43 Bahram Sadeghi Bigham, S.Mehdi Tashakkori Hashemi, "Antidote to the long road", , March 2003 Vol. , Num. , Page 0-0, March 2003,
- 44 S.Mehdi Tashakkori Hashemi, "Digraph embedding", , April 2001 Vol. , Num. 233, Page 0-0, April 2001,
- 45 S.Mehdi Tashakkori Hashemi, A. Kisielwicz, I. Rival, "Upward drawing on planes and sphere", , March 1995 Vol. , Num. , Page 0-0, March 1995,
- 46 S.Mehdi Tashakkori Hashemi, I. Rival, "Upward drawing to fit surface", , January 1994 Vol. , Num. , Page 0-0, January 1994,

Conference Papers

Portal Records

- 1 Hamidreza Eftekhari, S.Mehdi Tashakkori Hashemi, Mehdi Ghaee, "Optimal location of variable message signs on the freeway network considering traffic and accident rates ", 1th National Road ITS congress, January 2015
- 2 Rayehe Moeinfar, S.Mehdi Tashakkori Hashemi, Mehdi Ghaee, "A Group Decision Support System (GDSS) Based on Naive Bayes Classifier for Roadway Lane Management ", International Symposium, AISP 2013, December 2013
- 3 Malihe Niksirat, Mehdi Ghaee, S.Mehdi Tashakkori Hashemi, Aydin Ebrahimi Hoday, "Expert Decision Support System Design for Integrated Public Transportation Scheduling ", The 12 th International Conference on Traffic and Transportation Engineering, February 2013
- 4 Somayeh Soudmand Kouseh, S.Mehdi Tashakkori Hashemi, Mehdi Ghaee, "Toll Pricing Estimation for Finding Optimal Price for HOV lanes without bi-level dynamic models ", The 11th International Traffic & Transportation Engineering Conference, February 2012
- 5 Maryam Fadaei Naeini, Mehdi Ghaee, S.Mehdi Tashakkori Hashemi, "Two models for traffic counters location for path maximal covering : A case study on Tehran Highways ", The 11th International Traffic & Transportation Engineering Conference, February 2012
- 6 Shiva Rahimpour, Malihe Niksirat, S.Mehdi Tashakkori Hashemi, Mehdi Ghaee, "Neural Networks for velocity estimation through highways ", The Tenth International Traffic & Transportation Engineering Conference, February 2012
- 7 Mehdi Ghaee, Malihe Niksirat, S.Mehdi Tashakkori Hashemi, "Intelligent algorithms for multi-modal network problems ", Transportation Research Board 91st Annual Meeting, January 2012

- 8 Mehdi Ghatee, S.Mehdi Tashakkori Hashemi, "Design of routing subsystem in a multi-modal network ", The 10th International Conference on Traffic and Transportation Engineering, November 2010
- 9 Maryam Tahmasbi, S.Mehdi Tashakkori Hashemi, "Orthogonal thickness of graphs ", Canadian Conference on Computational Geometry 2010, CCCG2010, August 2010
- 10 Mehdi Ghatee, S.Mehdi Tashakkori Hashemi, "An expert system for network control problems and its applications in large scale network design under uncertainty ", International Network Optimization Conference, April 2009
- 11 Mehdi Ghatee, S.Mehdi Tashakkori Hashemi, "An expert system network control problems and its applications in large scale network design under uncertainty ", , April 2009
- 12 Mahdie Hashemi Nejad, S.Mehdi Tashakkori Hashemi, "Spherical rectangular drawings ", , February 2009
- 13 Golnaz Vakili, S.Mehdi Tashakkori Hashemi, Siavash Khorsandi, "A mathematical foundation for chord overlays ", , January 2009
- 14 Mehdi Ghatee, S.Mehdi Tashakkori Hashemi, "A combined intelligent scheme for network control and its application in network design problems ", second joint congress on fuzzy & intelligent systems, October 2008
- 15 Ali Mohades Khorasani, S.Mehdi Tashakkori Hashemi, Mohammad Ebrahim Shiri Ahmad Abady, "An Image Encryption System by Cellular Automata with Memory ", , January 2008
- 16 Mohammadali Tayebi, S.Mehdi Tashakkori Hashemi, Ali Mohades Khorasani, "B2Rank: An algorithm for ranking blogs on behavioral features ", , November 2007
- 17 Mahdie Hashemi Nejad, S.Mehdi Tashakkori Hashemi, Maryam Tahmasbi Abdar, "Ortho- radial drawings ", , June 2007
- 18 [en-name N/A], [en-name N/A], [en-name N/A], S.Mehdi Tashakkori Hashemi, "An algorithm for 3D- biplanar graph drawing ", , March 2007
- 19 S.Mehdi Tashakkori Hashemi, Asiyeh Sanaei, "on the rectilinear symmetric crossing number of complete graphs ", , September 2005
- 20 S.Mehdi Tashakkori Hashemi, Ebrahim Nasrabadi, "Three Models to fuzzy Linear Regression ", , September 2005
- 21 S.Mehdi Tashakkori Hashemi, "digraph embedding ", , July 1998
- 22 S.Mehdi Tashakkori Hashemi, "shortest path problem in time - varying networks ", , March 1998
- 23 S.Mehdi Tashakkori Hashemi, "upward drawing of digraphs on surfaces ", , March 1998