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## Publications

### Journals

- AliAbdi, Amin and Mohades, Ali and Davoodi, Mansoor, "Constrained shortest path problems in bi-colored graphs: a label-setting approach", GeoInformatica, Vol. 25, NO. 3, 2021

- Kachooei, Homa Ataei and Davoodi, Mansoor and Tayebi, Dena, "The p-center problem under Uncertainty", GeoInformatica, Vol. 25, NO. 3, 2021

- Davoodi, M and Delfaraz, E and Ghobadi, S and Masoori, M, "Multi-robot exploration on grids with a bounded time", Scientia Iranica, Vol. 28, 2021

- Davoodi, Mansoor and Ghaffari, Mohsen, "Shortest path problem on uncertain networks: An efficient two phases approach", Computers \& Industrial Engineering, Vol. 157, 2021

- Davoodi, Mansoor and Delfaraz, Esmaeil and Ghobadi, Sajjad and Masoori, Mahtab, "Hole Detection and Healing in Hybrid Sensor Networks", arXiv preprint arXiv:2106.10659, Vol. 157, 2021

- Bigham, Bahram Sadeghi and Davoodi, Mansoor and Mazaheri, Samaneh and Kheyrabadi, Jalal, "Tiling Rectangles and the Plane using Squares of Integral Sides", arXiv preprint arXiv:2110.00839, Vol. 157, 2021

- Sadeghi Bigham, Bahram and Davoodi, Mansoor and Mazaheri, Samaneh and Kheyrabadi, Jalal, "Tiling Rectangles and the Plane using Squares of Integral Sides", arXiv e-prints, Vol. 157, 2021

- Kheybari, Siamak and Davoodi Monfared, Mansoor and Farazmand, Hadis and Rezaei, Jafar, "Sustainable location selection of data centers: Developing a multi-criteria set-covering decision-making methodology", International Journal of Information Technology \& Decision Making, Vol. 19, NO. 3, 2020

- Bayat, Faezeh and Davoodi, Mansoor, "Multi-Objective Approach for Identifying Cancer Subnetwork Markers", bioRxiv, Vol. 19, NO. 3, 2020

- Davoodi, Mansoor, "k-Balanced Center Location problem: A new multi-objective facility location problem", Computers \& Operations Research, Vol. 105, NO. 8, 2019

- Kachooei, Homa Ataei and Davoodi, Mansoor and Tayebi, Dena, "On Maximum-Weight Minimum Spanning Tree Color-Spanning Set", Computers \& Operations Research, Vol. 105, NO. 8, 2019

- Davoodi, Mansoor and Delfaraz, Esmaeil and Ghobadi, Sajjad and Masoori, Mahtab, "Algorithms for Handoff Minimization in Wireless Networks", Journal of Computer Science and Technology, Vol. 34, NO. 4, 2019

- Azar, Armin Ghasem and Afsharchi, Mohsen and Davoodi, Mansoor and Bigham, Bahram Sadeghi, "A multi-objective market-driven framework for power matching in the smart grid", Engineering Applications of Artificial Intelligence, Vol. 70, NO. 1, 2018

- Zarei, Amir and Pahlevani, Peyman and Davoodi, Mansoor, "On the partial decoding delay of sparse network coding", IEEE Communications Letters, Vol. 22, NO. 8, 2018

- Pahlevani, Peyman and Monfared, Mansoor Davoodi, "Amir Zarei", International Journal of Information Technology \& Decision Making, Vol. 19, NO. 3, 2018

- Mesrikhani, A and Davoodi, M, "Non-zero probability of nearest neighbor searching", Journal of AI and Data Mining, Vol. 5, NO. 1, 2017

- Mesrikhani, A and Davoodi, M, "hand off minimization", Journal of AI and Data Mining, Vol. 5, NO. 1, 2017

- Davoodi, Mansoor, "Bi-objective path planning using deterministic algorithms", Robotics and Autonomous Systems, Vol. 93, NO. 1, 2017

- Rezaei, Jafar and Davoodi, Mansoor and Tavasszy, Lori and Davarynejad, Mohsen, "A multi-objective model for lot-sizing with supplier selection for an assembly system", International Journal of Logistics Research and Applications, Vol. 19, NO. 2, 2016

- Sheikhi, Farnaz and Mohades, Ali and de Berg, Mark and Davoodi, Mansoor, "Separating bichromatic point sets by L-shapes", Computational Geometry, Vol. 48, NO. 9, 2015

- Bakhshesh, Davood and Davoodi, Mansoor, "Approximating of conic sections by DP curves with endpoint interpolation", International Journal of Computer Mathematics, Vol. 92, NO. 1, 2015

- Panahi, Fatemeh and Davoodi, Mansoor and van der Stappen, A Frank, "Orienting parts with shape variation", IEEE Transactions on Automation Science and Engineering, Vol. 14, NO. 2, 2015

- Davoodi, Mansoor and Mohades, Ali and Sheikhi, Farnaz and Khanteimouri, Payam, "Data imprecision under $\lambda$-geometry model", Information Sciences, Vol. 295, NO. 2, 2015

- Banyassady, Bahareh and Davoodi, Mansoor and Mohades, Ali, "Caging Polygons by a Finger and a Wall", Proceedings of EUroCG, Vol. 295, NO. 2, 2015

- Davoodi, Mansoor and Panahi, Fatemeh and Mohades, Ali and Hashemi, Seyed Naser, "Clear and smooth path planning", Applied Soft Computing, Vol. 32, NO. 2, 2015

- Monfared, Mansoor Davoodi and Panahi, Fatemeh and Mohades, Ali and Hashemi, Seyed Naser, "Clear and smooth path planning.", Appl. Soft Comput., Vol. 32, NO. 1, 2015

- Davoodi, M and Mohades, A, "Data imprecision under $\lambda$-geometry model: Range searching problem", Scientia Iranica D, Vol. 20, NO. 3, 2013

- Davoodi, Mansoor and Abedin, Marjan and Banyassady, Bahareh and Khanteimouri, Payam and Mohades, Ali, "An optimal algorithm for two robots path planning problem on the grid", Robotics and Autonomous Systems, Vol. 61, NO. 12, 2013

- Rezaei, Jafar and Davoodi, Mansoor, "A joint pricing, lot-sizing, and supplier selection model", International Journal of Production Research, Vol. 50, NO. 16, 2012

- Taheri, Ali and Davoodi, Mansoor and Setayeshi, Saeed, "Investigation of electron mobility in GaAs-based devices using genetic algorithm", COMPEL-The international journal for computation and mathematics in electrical and electronic engineering, Vol. 31, NO. 2, 2012

- Davoodi, Mansoor and Panahi, Fatemeh and Mohades, Ali and Hashemi, Seyed Naser, "Multi-Objective Path Planning in Discrete Space", Applied Soft Computing, Vol. 13, NO. 1, 2012

- Jamshidi Chenari, R and Alinejad Taheri, A and Davoodi, M, "Uncertainty in fundamental natural frequency estimation for alluvial deposits", Computational Methods in Civil Engineering, Vol. 3, NO. 1, 2012

- Rezaei, Jafar and Davoodi, Mansoor, "Multi-objective models for lot-sizing with supplier selection", International Journal of Production Economics, Vol. 130, NO. 1, 2011

- Davoodi, Mansoor and Mohades, Ali and Rezaei, Jafar, "Solving the constrained p-center problem using heuristic algorithms", Applied Soft Computing, Vol. 11, NO. 4, 2011

- Gheibi, Amin and Davoodi, Mansoor and Javad, Ahmad and Panahi, Fatemeh and Aghdam, Mohammad M and Asgaripour, Mohammad and Mohades, Ali, "Polygonal shape reconstruction in the plane", IET computer vision, Vol. 5, NO. 2, 2011

- Davoodi, Mansoor and Mohades, Ali, "Solving the constrained coverage problem", Applied Soft Computing, Vol. 11, NO. 1, 2011

- Davoodi Monfared, M and Mohades, A and Rezaei, J, "Convex hull ranking algorithm for multi-objective evolutionary algorithms", Scientia Iranica, Vol. 50, NO. 16, 2011

- Rezaei, Jafar and Davoodi, Mansoor, "A deterministic, multi-item inventory model with supplier selection and imperfect quality", Applied Mathematical Modelling, Vol. 32, NO. 10, 2008

- Rezaei, Jafar and Davoodi, Mansoor, "Special Session on Intelligent Systems for Industry-Genetic Algorithm for Inventory Lot-Sizing with Supplier Selection Under Fuzzy Demand and Costs", Lecture Notes in Computer Science, Vol. 4031, NO. 3, 2006

## Conferences

- Davoodi, Mansoor and Sanisales, Maryam, "Path Planning with Objectives Minimizing Length and Maximizing Clearance", The Third Iranian Conference on, 2021

- Davoodi, Mansoor and Rouhani, Arman and Sanisales, Maryam, "Path Planning with Objectives Minimum Length and Maximum Clearance", International Conference on Topics in Theoretical Computer Science, 2020

- Davoodi, Mansoor and Enamzadeh, Hosein and Safari, Ashkan, "Path Planning in a Weighted Planar Subdivision Under the Manhattan Metric", 32nd Canadian Conference on Computational Geometry,, 2020

- van der Stappen, A Frank and Davoodi, Mansoor, "On Sufficient Numbers of Fingers to Immobilize 3D Chains of Polyhedra", 2019 IEEE 15th International Conference on Automation Science and Engineering (CASE), 2019

- Davoodi, Mansoor and Ghadikolaei, Mehdi Khosravian and Malekizadeh, Mohammad Mehdi, "Exploring Rectangular Grid Environments", 1st Iranian Conference on Computational Geometry,, 2018

- Kachooei, Homa Ataei and Davoodi, Mansoor and Tayebi, Dena, "On the Generalized Minimum Spanning Tree in the Euclidean Plane", 1st Iranian Conference on Computational Geometry,, 2018

- Gholami, Zahra and Davoodi, Mansoor, "Shortest Path Problem among Imprecise Obstacles", 1st Iranian Conference on Computational Geometry, Tehran, Iran., 2018

- Mesrikhani, Amir and Farshi, Mohammad and Davoodi, Mansoor, "Progressive Algorithm For Euclidean Minimum Spanning Tree", 1st Iranian Conference on Computational Geometry,, 2018

- Keikha, Vahideh and Mohades, Ali and Monfared, Mansoor Davoodi, "On the Triangulation of non-fat Imprecise Points.", CCCG, 2016

- Roostapour, Vahid and Kiarazm, Iman and Davoodi, Mansoor,

"Deterministic algorithm for 1-median 1-center two-objective optimization problem", International Conference on Topics in Theoretical Computer Science, 2015

- Azar, Armin Ghasem and Davoodi, Mansoor and Afsharchi, Mohsen and Sadeghi Bigham, Bahram, "A greedy agent-based resource allocation in the smart electricity markets", IFIP International Conference on Artificial Intelligence Applications and Innovations, 2014

- Panahi, Fatemeh and Khorasani, Ali Mohades and Davoodi, Mansoor and Eskandari, Marzieh, "Weak matching points with triangles", International Journal of Production Research, 2011

- Davoodi, Mansoor and Khanteimouri, Payam and Sheikhi, Farnaz and Mohades, Ali, "Data Imprecision under $\lambda$-Geometry: Finding the Largest Axis-Aligned Bounding Box", 27-th European Workshop on Computational Geometry,, 2011

- Sheikhi, Farnaz and de Berg, Mark and Mohades, Ali and Monfared, Mansoor Davoodi, "Finding monochromatic l-shapes in bichromatic point sets.", CCCG, 2010

- Davoodi, M and Mohades, A and Rezaei, J, "Convex Hull and Non-Dominated Solutions", Proceedins of the first meeting on'contemporary issues in computer and information science', 2010

- Rezaei, Jafar and Davoodi, Mansoor, "Genetic algorithm for inventory lot-sizing with supplier selection under fuzzy demand and costs", International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, 2006

- Rezaei, Jafar and Davoodi, Mansoor, "Multi-item fuzzy inventory model with three constraints: Genetic algorithm approach", Australasian Joint Conference on Artificial Intelligence, 2005