

Asst. Prof. MUSTAFA KEMAL TURAL

Personal Information

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Education Information

Doctorate, University Of North Carolina At Chapel Hill, United States Of America 2004 - 2009

Undergraduate Double Major, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 1999 - 2004

Dissertations

Doctorate, Topics in Basis Reduction and Integer Programming, University Of North Carolina At Chapel Hill, 2009

Research Areas

Optimization Theory and Methods, Simulation, Supply Chain and Logistics Management, Combinatorics, Optimization

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2013 - 2018

Advising Theses

Tural M. K. , Özdemirel N. E. , Data mining for regional and graph-structured data objects, Doctorate, D.DİNLER(Student), 2019

Tural M. K. , Municipal Solid Waste Management with Cost Minimization and Emission Control Objectives, Post Graduate, M.MOHSENIZADEHKAMOU(Student), 2019

Tural M. K. , K-step betweenness centrality, Post Graduate, M.KEVSER(Student), 2019

TURAL M. K. , A multi-level continuous minimax location problem with regional demand, Post Graduate, A.FARIDYAHYAEI(Student), 2017

TURAL M. K. , Integer programming approaches to the Dominating Tree Problem, Post Graduate, SAKİFOĞLU(Student), 2016

İYİGÜN C. , TURAL M. K. , Heuristics for a continuous multi-facility location problem with demand regions, Post Graduate, D.DİNLER(Student), 2013

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

● Centroid based Tree-Structured Data Clustering Using Vertex/Edge Overlap and Graph Edit Distance

DİNLER D., TURAL M. K. , ÖZDEMİREL N. E.

ANNALS OF OPERATIONS RESEARCH, vol.289, pp.85-122, 2020 (Journal Indexed in SCI)

● **k-step betweenness centrality**

Akgun M. K. , TURAL M. K.

● COMPUTATIONAL AND MATHEMATICAL ORGANIZATION THEORY, vol.26, pp.55-87, 2020 (Journal Indexed in SCI)

● **Solution methods for a min-max facility location problem with regional customers considering closest Euclidean distances**

DOLU HASTÜRK N., HASTÜRK U., TURAL M. K.

● COMPUTATIONAL OPTIMIZATION AND APPLICATIONS, vol.75, pp.537-560, 2020 (Journal Indexed in SCI)

● **Municipal solid waste management with cost minimization and emission control objectives: A case study of Ankara**

Mohsenizadeh M., TURAL M. K. , Kentel E.

● SUSTAINABLE CITIES AND SOCIETY, vol.52, 2020 (Journal Indexed in SCI)

● **Multi-facility green Weber problem**

Atashi Khoei A., Süral H., Tural M. K.

● Computers and Operations Research, vol.113, 2020 (Journal Indexed in SCI)

● **Faster computation of successive bounds on the group betweenness centrality**

DİNLER D., TURAL M. K.

● NETWORKS, vol.71, pp.358-380, 2018 (Journal Indexed in SCI)

● **Time-dependent green Weber problem**

Khoei A. A. , SÜRAL H., TURAL M. K.

● COMPUTERS & OPERATIONS RESEARCH, vol.88, pp.316-323, 2017 (Journal Indexed in SCI)

● **Robust semi-supervised clustering with polyhedral and circular uncertainty**

DİNLER D., TURAL M. K.

● NEUROCOMPUTING, vol.265, pp.4-27, 2017 (Journal Indexed in SCI)

● **A minisum location problem with regional demand considering farthest Euclidean distances**

DİNLER D., TURAL M. K.

● OPTIMIZATION METHODS & SOFTWARE, vol.31, pp.446-470, 2016 (Journal Indexed in SCI)

● **Maximal matching polytope in trees**

TURAL M. K.

● OPTIMIZATION METHODS & SOFTWARE, vol.31, pp.471-478, 2016 (Journal Indexed in SCI)

● **Heuristics for a continuous multi-facility location problem with demand regions**

DİNLER D., TURAL M. K. , İYİĞÜN C.

● COMPUTERS & OPERATIONS RESEARCH, vol.62, pp.237-256, 2015 (Journal Indexed in SCI)

● **Sociodemographic/clinical characteristics and risk factors associated with chronic tic disorders**

Tural Hesapçioğlu S., TURAL M. K. , KANDİL S.

Turk Psikiyatri Dergisi, vol.24, 2013 (Journal Indexed in SSCI)

Articles Published in Other Journals

● **Valid Inequalities for the Maximal Matching Polytope**

TURAL M. K.

● Adiyaman University Journal of Science, vol.9, pp.374-385, 2019 (Other Refereed National Journals)

● **Prevalence of Peer Bullying in Secondary Education and Its Relation with High School Entrance Scores**

Hesapçioğlu S. T. , TURAL M. K.

● DUSUNEN ADAM-JOURNAL OF PSYCHIATRY AND NEUROLOGICAL SCIENCES, vol.31, pp.347-355, 2018 (Journal Indexed in ESCI)

● **Quality of life and self-esteem in children with chronic tic disorder**

Hesapçioğlu S. T. , Tural M. K. , Kandil S.

Books & Book Chapters

- **A Survey of Constrained Clustering**
Dinler D., Tural M. K.
in: Unsupervised Learning Algorithms, M. Emre Çelebi, Kemal Aydın, Editor, Springer-Verlag , Zug, pp.207-235, 2016
- **Location Problems with Demand Regions**
DİNLER D., TURAL M. K. , İYİĞÜN C.
in: Global Logistics Management, Kara Bahar Y., Sabuncuoğlu İhsan, Bidanda Bopaya, Editor, CRC Press, pp.237-252, 2014

Refereed Congress / Symposium Publications in Proceedings

- **Paired Domination and Integer Programming**
TURAL M. K.
Balkan 2. Uluslararası Uygulamalı Bilimler Kongresi, Turkey, 10 May 2020
- **On the Hardness of Almost All Subset Sum Problems by Ordinary Branch-and-bound**
TURAL M. K.
ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Ankara, Turkey, 20 - 22 December 2019, pp.67-71
- **Energy Consumption Based Rendezvous Problem for Mobile Robots**
DOLU N., TURAL M. K.
2019 INFORMS Annual Meeting, United States Of America, 20 - 23 October 2019
- **Perfect Neighbor Sets in Graphs**
HASTÜRK U., TURAL M. K.
2019 INFORMS Annual Meeting, United States Of America, 20 - 23 October 2019
- **Tree-structured Data Clustering with Graph Edit Distance**
DİNLER D., TURAL M. K. , ÖZDEMİREL N. E.
30th European Conference , on Operational Research, Dublin, Ireland, 23 - 26 June 2019
- **Ağaç Yapılı Verilerin Ged (Graph Edit Distance) ile Kümelenmesi**
DİNLER D., TURAL M. K. , ÖZDEMİREL N. E.
39. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, Ankara, Turkey, 12 - 14 June 2019
- **Energy Minimizing Forklift Routing Problem**
ATASHI KHOEI A., SÜRAL H., TURAL M. K.
39. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, Ankara, Turkey, 12 - 14 June 2019
- **Energy Minimizing Forklift Routing Problem**
ATASHI KHOEI A., SÜRAL H., TURAL M. K.
1st EUROYoung Workshop, Spain, 2 - 03 May 2019
- **Energy Optimization of a Plug in Electric Vehicle Along a Fixed Path**
Gürü B., Tural M. K. , Atashikhoei A.
2018 INFORMS Annual Meeting, Arizona, United States Of America, 4 - 07 November 2018, pp.496
- **Tree-structured Data Clustering**
Dinler D., Tural M. K. , Özdemirel N. E.
2018 INFORMS Annual Meeting, Arizona, United States Of America, 4 - 07 November 2018, pp.403
- **Tree-structured Data Clustering**
Dinler D., Tural M. K. , Özdemirel N. E.
29th European Conference on Operational Research, Valencia, Spain, 8 - 11 July 2018, pp.69

● **Multi-facility Green Weber Problem**

Atashikhoei A., Süral H., Tural M. K.

2018 EURO Working Group Conference on Sustainable Supply Chains, Amsterdam, Netherlands, 6 - 07 July 2018, pp.11

● **Agac Yapili Verilerin Kumelenmesi**

Dinler D., Tural M. K. , Özdemirel N. E.

38. Yöneylem Araştırması Endüstri Mühendisliği Ulusal Kongresi, Eskişehir, Turkey, 26 - 29 June 2018, pp.21

● **Clustering of Tree-Structured Data Objects**

DİNLER D., TURAL M. K. , ÖZDEMİREL N. E.

10th International Statistics Congress (ISC2017), 6 - 08 December 2017

● **Faster Computation of Successive Bounds on the Group Betweenness Centrality**

DİNLER D., TURAL M. K.

10th International Statistics Congress (ISC2017), 6 - 08 December 2017

● **Municipal solid waste management with cost minimization and emission control objectives**

MOHSENIZADEH M., KENTEL ERDOĞAN E., TURAL M. K.

The 5th International Fuzzy Systems Symposium 2017, 14 - 15 October 2017

● **Faster computation of successive bounds on the group betweenness centrality**

DİNLER D., TURAL M. K.

21st Conference of the International Federation of Operational Research Societies, 17 - 21 July 2017

● **Energy minimizing p-connected covering location problem**

ATASHI KHOEI A., FARHAM M. S. , TURAL M. K.

The XVIII Congress of the Portuguese Association of Operational Research, 28 - 30 June 2017

● **A Multi-level Continuous Minimax Location Problem with Regional Demand**

FARIDYAHYAEI A., TURAL M. K. , DURAN S.

International Workshop on Mathematical Methods in Engineering, 27 - 29 April 2017

● **Constrained Clustering of Uncertain Data**

DİNLER D., TURAL M. K.

INFORMS Annual Meeting 2016, Tennessee, United States Of America, 13 - 16 November 2016

● **Integer Programming and Heuristic Approaches for the Dominating Tree Problem**

AKİFOĞLU S., TURAL M. K.

28th European Conference on Operational Research, Poznan, Poland, 3 - 06 July 2016

● **Robust Semi supervised Clustering with Polyhedral and Circular Uncertainty**

DİNLER D., TURAL M. K.

28th European Conference on Operational Research, Poznan, Poland, 3 - 06 July 2016

● **Low Carbon Weber Problem**

Atashi Khoei A., TURAL M. K. , SÜRAL H.

28th European Conference on Operational Research, Poznan, Poland, 3 - 06 July 2016

● **On the Maximal Matching Polytope**

TURAL M. K.

The Japanese Conference on Combinatorics and its Applications (JCCA 2016), Kyoto, Japan, 21 - 25 May 2016

● **Ağaç Türü Çizgelerde Maksimal Eşleme Politopu**

TURAL M. K.

35. Yöneylem Araştırması ve Endüstri Mühendisliği (YAEM) Ulusal Kongresi, Ankara, Turkey, 9 - 11 September 2015

● **Bölgesel Talepli Yer Seçimi Problemi için Algoritmalar**

DİNLER D., TURAL M. K.

35. Yöneylem Araştırması ve Endüstri Mühendisliği (YAEM) Ulusal Kongresi, Ankara, Turkey, 9 - 11 September 2015

● **Semi supervised Clustering with Regional Data Objects**

DİNLER D., TURAL M. K.

27th European Conference on Operational Research, 12 - 15 July 2015

- **Minimum Weighted Maximal Matching Problem in Trees**
TURAL M. K.
8th Slovenian Conference on Graph Theory, Kranjska Gora, Slovenia, 21 - 27 June 2015
- **Basis reduction and the complexity of branch-and-bound**
Pataki G., Tural M. K. , Wong E. B.
21st Annual ACM-SIAM Symposium on Discrete Algorithms, Austin, TX, United States Of America, 17 - 19 January 2010, pp.1254-1261

Episodes in the Encyclopedia

- **Wiley Encyclopedia of Operations Research and Management Science**
PATAKI G., TURAL M. K.
John Wiley and Sons, pp., 2011

Supported Projects

Tural M. K. , Süral H., TUBITAK Project, Optimization Problems in Warehousing and Transportation for Green Logistics Practices , 2018 - 2020

Scientific Refereeing

- 8. Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı, Conference Paper (Full Text), July 2019
- 8. Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı, Conference Paper (Full Text), July 2019
- 8. Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı, Conference Paper (Full Text), July 2019

Scientific Consultations

STM SAVUNMA TEKNOLOJİLERİ MÜHENDİSLİK VE TİCARET A.Ş., Scientific Consultancy, Middle East Technical University, Faculty Of Engineering, Department Of Industrial Engineering, Turkey, 2018 - Continues

Tasks In Event Organizations

Karagöz P., Akkar Ercan Z. M. , Betin Can A., Oğuztüzün M. H. S. , Tural M. K. , 2019 USMOS Konferansı (Büyük veri çağında modelleme ve simülasyon), Scientific Congress, Ankara, Turkey, Kasım 2019

Citations

Total Citations (WOS):51

h-index (WOS):5