

Gökhan Karaköse
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Eğitim

Ph.D., Endüstri Mühendisliği 2013- 2018

University of Missouri-Columbia
Columbia, Missouri, USA

- Danışman: Ronald G. McGarvey
- Tez: *Utilizing multi-commodity flow formulations to solve network protection problems*

M.S., Endüstri Mühendisliği 2011- 2013

University of Missouri-Columbia
Columbia, Missouri, USA

B.S., Endüstri Mühendisliği 2005- 2009

Eskişehir Osmangazi Üniversitesi
Eskişehir, Türkiye

Araştırma İlgileri

- Yöneylem Araştırması tekniklerinin (Doğrusal Programlama, Tamsayılı Programlama vb.) ulaşım, sağlık ve iletişim alanlarına uygulanması
- Büyük çaplı ağ optimizasyon ve kombinatoriyal optimizasyon problemlerin çözümünde sezgisel ve kesin algoritmaların geliştirilmesi

Akademik Pozisyonlar

1. Doktor Öğretim Üyesi, Endüstri Mühendisliği Bölümü, Bartın Üniversitesi, 2021-Devam
2. Öğretim Görevlisi, İşletme Bölümü, Kafkas Üniversitesi, 2019-2021

Yayımlar

1. **Karakose G**, McGarvey RG (2019), Optimal detection of critical nodes: improvements to model structure and performance. *Networks and Spatial Economics*, 1-26. <https://doi.org/10.1007/s11067-018-9407-0>
2. **Karakose G**, McGarvey RG (2019), Optimal K-node disruption on a node-capacitated network. *Optimization Letters*, 1-21. <https://doi.org/10.1007/s11590-018-1270-x>
3. **Karakose G**, McGarvey RG (2018), Node-securing connectivity-based model to reduce infection spread in contaminated networks. *Computers & Industrial Engineering*, 115, 512-519. <https://doi.org/10.1016/j.cie.2017.12.008>
4. **Karakose G**, McGarvey RG (2018), Capacitated path-aggregation constraint model for arc disruption in networks. *Transportation Research Part E: Logistics and Transportation Review*, 109, 225-238. 3. <https://doi.org/10.1016/j.tre.2017.11.012>

Konferans ve Sempozyum Sunumları

1. Dundar B, **Karakose G**, Seat Assignment Models for Classrooms in Response to Covid-19 Pandemic, *International Covid-19 And Current Issues Congress*, 2021
2. **Karakose G**, McGarvey RG, Multi-commodity Flow Model–Dual Based Formulation for Optimal Detection of Critical Network Components, *INFORMS Annual Meeting 2016*, Nashville, TN, November 2016
3. McGarvey RG, Noble J, Matisziw T, **Karakose G**, Materikina M, Improving Striping Operations through System Optimization, *IIE Annual Conference 2016*, Anaheim, CA, May 2016.
4. **Karakose G**, McGarvey RG, A Network Interdiction Approach to the Rural Postman Problem, *INFORMS Annual Meeting 2015*, Philadelphia, PA, November 2015.
5. **Karakose G**, McGarvey RG, Noble J, Matisziw T, Materikina M, Improving Striping Operations through System Optimization Phase-II, *CELDi Industrial Advisory Board Meeting and Research Symposium - Spring 2015*, Atlanta, Georgia, April 2015.
6. **Karakose G**, McGarvey RG, Sir MY, Fortification of Network Components against Intentional Disruptions, *INFORMS Annual Meeting 2014*, San Francisco, CA, November 2014
7. **Karakose G**, McGarvey RG, Noble J, Matisziw T, Materikina M, Improving Striping Operations through System Optimization Phase-I, *CELDi Industrial Advisory Board Meeting and Research Symposium - Fall 2014*, Dallas, Texas, October 2014.

Projeler

1. McGarvey RG, Matisziw T, Noble J, Nemmers C, **Karakose G**, Materikina M and Page A (2015), Improving Striping Operations through System Optimization, Phase I; Missouri Department of Transportation, *June 2014 - November 2015 (Phase I)*
 - http://www.intrans.iastate.edu/research/documents/research-reports/system_optimization_of_striping_operations_w_cvr.pdf
2. McGarvey RG, Matisziw T, Noble J, Nemmers C, **Karakose G**, Krause C (2016), Improving Striping Operations through System Optimization, Phase II; Missouri Department of Transportation, *December 2015 - June 2016 (Phase II)*
 - http://www.intrans.iastate.edu/research/documents/research-reports/system_optimization_of_striping_operations_phase_2_w_cvr.pdf