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ÜNVAN:

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ONUR VE ÖDÜLLER:

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YAYINLANMIŞ KİTAPLAR ve KİTAPLARDA BÖLÜMLER:

Sadat, M., Abuamer, I.M., Silgu, M.A. and Celikoglu, H.B., (2018). “ *A Comparative Performance Analysis of Variable Speed Limit Systems Control Methods Using Micro-Simulation: A Case Study on D100 Freeway, Istanbul*” in: Moreno-Díaz R., Pichler F., Quesada-Arencibia A. (eds) Computer Aided Systems Theory – EUROCAST 2017. Lecture Notes in Computer Science, Cilt. 10672, ISBN: 978-3-319-74726-2, Springer International Publishing

Silgu, M.A. and Celikoglu, H.B. (2015).“*Clustering Traffic Flow Patterns by Fuzzy C-Means Method: Some Preliminary Findings*” in Moreno-Díaz R., Pichler F., Quesada-Arencibia A. (eds) Computer Aided Systems Theory – EUROCAST 2015, Lecture Notes in Computer Science , Cilt. 9520, ISBN: 978-3-319-27339-6, Springer International Publishing

PATENTLER:

YAYINLANMIŞ MAKALELER (SCI indeks): (aşağıdaki formatı kullanalım)

1. Celikoglu H.B. and Silgu, M.A. (2016) "*Extension of Traffic Flow Pattern Dynamic Classification by a Macroscopic Model Using Multivariate Clustering*", Transportation Science, 50 (3): 966-981.
2. Dell'Orco, M., Marinelli, M. and Silgu, M.A. (2016) ."*Bee Colony Optimization for innovative travel time estimation, based on a mesoscopic traffic assignment model*", Transportation Research Part C: Emerging Technologies, 66: 48-60,.

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1. Silgu, M. A. and Celikoglu, H. B.(2014). "*K-means clustering method to classify freeway traffic flow patterns*", Pamukkale University Journal of Engineering Sciences, 20 (6) : 232-239.

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1. Goksu, G., Silgu, M. A., Hulagu, S. and Celikoglu, H.B. (2018). "*Coordinated Ramp Metering and Variable Speed Limit Using H_{∞} State Feedback Controller*", MATTS 2018 Mathematics Applied in Transport and Traffic Systems, Delft, 17.10.2018-19.10.2018.
2. Silgu, M.A., Muderrisoglu, K., Unsal, A., Celikoglu, H.B. (2018). "*Approximation Of Emission For Heavy Duty Trucks In City Traffic*",2018 IEEE International Conference on Vehicular Electronics and Safety (ICVES2018), Madrid, 12.09.2018-14.09.2018.
3. Abuamer, I.M., Sadat, M., Silgu, M.A. and Celikoglu, H.B. (2017). "*Analyzing the effects of driver behavior within an adaptive ramp control scheme: A case-study with ALINEA*", 2017 IEEE International Conference on Vehicular Electronics and Safety (ICVES2017), 109-114,doi: 10.1109/ICVES.2017.7991910.
4. Sadat, M., Abuamer, I.M., Silgu, M.A. and Celikoglu, H.B. (2017). "*A Comparative Performance Analysis of Variable Speed Limit Systems Control Methods Using Micro-Simulation: A Case Study on D100 Freeway, Istanbul*", 16th International Conference on Computer Aided Systems Theory, Las Palmas, 19.02.2017-24.02.2017.
5. Silgu, M.A., Ozturk, E., Celikoglu, H. B. (2017). "*Vehicular Emissions Based Environmental Impact Assessment of Transportation Networks: A Case Study Analyzing Mobility Patterns of a University Campus*",16th International Conference on Computer Aided Systems Theory, Las Palmas,19.02.2017-24.02.2017.

6. Abuamer, I.M., Silgu, M.A. and Celikoglu, H.B. (2016). "Micro simulation based ramp metering on Istanbul freeways: An evaluation adopting ALINEA", IEEE 19th International Conference on Intelligent Transportation Systems (ITSC), 695-700, doi: 10.1109/ITSC.2016.7795629.
7. Silgu, M.A. and Celikoglu, H.B. (2015). "Clustering Traffic Flow Patterns by Fuzzy C-Means Method", 15th International Congress on Computer Aided Systems Theory, Las Palmas, 08.02.2015 - 13.02.2015.
8. Silgu, M.A. and Celikoglu, H.B. (2014). "Non-hierarchical clustering methods to classify freeway traffic flow states", 11th International Congress on Advances in Civil Engineering (ACE2014), Istanbul, 21.10.2014 - 24.10.2014.
9. Deniz, O., Silgu, M.A. and Celikoglu, H.B. (2014). "Comparative evaluation of a cellular automata model and cell transmission model with Istanbul freeway data", 11th International Congress on Advances in Civil Engineering (ACE2014), Istanbul, 21.10.2014 - 24.10.2014.
10. Silgu, M.A., Yagcıođlu, U.C., Arslan, M., Vııcıl, M., Abdiođlu, E. and Yücel, C. (2010). " Mineralogical Features of the Clinopyroxenes and Their Opaque Inclusions in Tertiary Volcanics from Tonya-Trabzon Areas, NE Turkey", p. 39-41, 45th Year Geology Symposium, Trabzon, 13.10.2010 - 16.10.2010.

ARAŞTIRMA PROJELERİ:

1. Araştırmacı, "Micro simulation based ramp metering on Istanbul freeways: An evaluation adopting ALINEA", İstanbul Teknik Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi ([BAP](#)), 2016.
2. Bursiyer, "Ađ akım yayılımının analizi: Model geliştirme ve kalibrasyonda benzetim modelleri uygulaması", Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TÜBİTAK) Mühendislik Araştırma Grubu COST uluslararası araştırma proje no: 111M415,215232 TL, 2011-2013.