

# S Ilgin Guler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10512385/publications.pdf>

Version: 2024-02-01

37  
papers

1,353  
citations

516710

16  
h-index

395702

33  
g-index

37  
all docs

37  
docs citations

37  
times ranked

877  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using connected vehicle technology to improve the efficiency of intersections. Transportation Research Part C: Emerging Technologies, 2014, 46, 121-131.	7.6	356
2	Isolated intersection control for various levels of vehicle technology: Conventional, connected, and automated vehicles. Transportation Research Part C: Emerging Technologies, 2016, 72, 109-129.	7.6	204
3	Analytical formulation and empirical evaluation of pre-signals for bus priority. Transportation Research Part B: Methodological, 2014, 64, 41-53.	5.9	90
4	Strategies for sharing bottleneck capacity among buses and cars. Transportation Research Part B: Methodological, 2012, 46, 1334-1345.	5.9	69
5	Adaptive control algorithm to provide bus priority with a pre-signal. Transportation Research Part C: Emerging Technologies, 2016, 64, 28-44.	7.6	68
6	Bus priority at signalized intersections with single-lane approaches: A novel pre-signal strategy. Transportation Research Part C: Emerging Technologies, 2016, 63, 51-70.	7.6	65
7	An equitable traffic signal control scheme at isolated signalized intersections using Connected Vehicle technology. Transportation Research Part C: Emerging Technologies, 2020, 110, 81-97.	7.6	48
8	Signal Timing Optimization with Connected Vehicle Technology: Platooning to Improve Computational Efficiency. Transportation Research Record, 2018, 2672, 81-92.	1.9	45
9	Joint Optimization of Signal Phasing and Timing and Vehicle Speed Guidance in a Connected and Autonomous Vehicle Environment. Transportation Research Record, 2019, 2673, 70-83.	1.9	44
10	Providing public transport priority in the perimeter of urban networks: A bimodal strategy. Transportation Research Part C: Emerging Technologies, 2019, 107, 171-192.	7.6	37
11	Implementing transit signal priority in a connected vehicle environment with and without bus stops. Transportmetrica B, 2019, 7, 423-445.	2.3	35
12	Evaluation of Presignals at Oversaturated Signalized Intersections. Transportation Research Record, 2014, 2418, 11-19.	1.9	31
13	Estimating the impacts of transit signal priority on intersection operations: A moving bottleneck approach. Transportation Research Part C: Emerging Technologies, 2019, 105, 346-358.	7.6	25
14	A heuristic method to optimize generic signal phasing and timing plans at signalized intersections using Connected Vehicle technology. Transportation Research Part C: Emerging Technologies, 2020, 111, 156-170.	7.6	25
15	Estimating the Impacts of Bus Stops and Transit Signal Priority on Intersection Operations: Queuing and Variational Theory Approach. Transportation Research Record, 2017, 2622, 70-83.	1.9	19
16	Pre-signals for bus priority: basic guidelines for implementation. Public Transport, 2015, 7, 339-354.	2.7	17
17	Optimizing Transit Signal Priority Implementation along an Arterial. Transportation Research Record, 2018, 2672, 215-227.	1.9	16
18	Modeling and optimizing bus transit priority along an arterial: A moving bottleneck approach. Transportation Research Part C: Emerging Technologies, 2020, 121, 102873.	7.6	15

#	ARTICLE	IF	CITATIONS
19	Effects of Multimodal Operations on Urban Roadways. Transportation Research Record, 2015, 2533, 1-7.	1.9	14
20	Analytical evaluation of flexible-sharing strategies on multimodal arterials. Transportation Research, Part A: Policy and Practice, 2018, 114, 364-379.	4.2	13
21	Traffic Signal Control Optimization in a Connected Vehicle Environment Considering Pedestrians. Transportation Research Record, 2020, 2674, 499-511.	1.9	13
22	Interpreting Impact Echo Data to Predict Condition Rating of Concrete Bridge Decks: A Machine-Learning Approach. Journal of Bridge Engineering, 2021, 26, .	2.9	13
23	Axle Load Power for Pavement Fatigue Cracking. Transportation Research Record, 2011, 2225, 21-24.	1.9	12
24	Providing Bus Priority at Signalized Intersections with Single-lane Approaches. Transportation Research Procedia, 2015, 9, 225-245.	1.5	12
25	Pavement Friction Degradation Based on Pennsylvania Field Test Data. Transportation Research Record, 2017, 2639, 11-19.	1.9	11
26	Determining Optimum Transit Signal Priority Implementation Locations on a Network. Transportation Research Record, 2020, 2674, 387-400.	1.9	9
27	On the impact of obstructions on the capacity of nearby signalised intersections. Transportmetrica B, 2016, 4, 48-67.	2.3	8
28	Optimization of dedicated bus lane location on a transportation network while accounting for traffic dynamics. Public Transport, 2021, 13, 325-347.	2.7	8
29	Effects of urban congestion on safety of networks. Journal of Transportation Safety and Security, 2016, 8, 214-229.	1.6	6
30	Green time usage metrics on signalized intersections and arterials using high-resolution traffic data. International Journal of Transportation Science and Technology, 2022, 11, 509-521.	3.6	6
31	A Transit Signal Priority Algorithm under Connected Vehicle Environment. , 2015, , .		5
32	Optimizing Bus Lane Placement on Networks while Accounting for Queue Spillbacks. , 2018, , .		4
33	Decentralized arterial traffic signal optimization with connected vehicle information. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2023, 27, 145-160.	4.2	4
34	A Scalable and Computationally Efficient Connected Vehicle-Based Signal Control Algorithm. , 2018, , .		2
35	Reliability Analysis of a Bridge Deck Utilizing Generalized Gamma Distribution. Journal of Bridge Engineering, 2022, 27, .	2.9	2
36	Comparison of Random Survival Forest with Accelerated Failure Time-Weibull Model for Bridge Deck Deterioration. Transportation Research Record, 2022, 2676, 296-311.	1.9	2

#	ARTICLE	IF	CITATIONS
37	Implementation Sequence Optimization for Dedicated Bus Lane Projects. Transportation Research Record, 0, , 036119812110148.	1.9	0