

Elke Hermans

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6939560/publications.pdf>

Version: 2024-02-01

55
papers

1,303
citations

361045

20
h-index

360668

35
g-index

56
all docs

56
docs citations

56
times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining road safety information in a performance index. Accident Analysis and Prevention, 2008, 40, 1337-1344.	3.0	141
2	Benchmarking road safety: Lessons to learn from a data envelopment analysis. Accident Analysis and Prevention, 2009, 41, 174-182.	3.0	117
3	Improved hierarchical fuzzy TOPSIS for road safety performance evaluation. Knowledge-Based Systems, 2012, 32, 84-90.	4.0	116
4	Road safety risk evaluation and target setting using data envelopment analysis and its extensions. Accident Analysis and Prevention, 2012, 48, 430-441.	3.0	100
5	A generalized multiple layer data envelopment analysis model for hierarchical structure assessment: A case study in road safety performance evaluation. Expert Systems With Applications, 2011, 38, 15262-15272.	4.4	67
6	Data Envelopment Analysis for Composite Indicators: A Multiple Layer Model. Social Indicators Research, 2013, 114, 739-756.	1.4	54
7	An evaluation of the traffic safety effect of fixed speed cameras. Safety Science, 2014, 62, 168-174.	2.6	53
8	Behavioural effects of fixed speed cameras on motorways: Overall improved speed compliance or kangaroo jumps?. Accident Analysis and Prevention, 2014, 73, 132-140.	3.0	42
9	Road safety risk evaluation by means of ordered weighted averaging operators and expert knowledge. Knowledge-Based Systems, 2010, 23, 48-52.	4.0	41
10	Identifying the most significant indicators of the total road safety performance index. Accident Analysis and Prevention, 2018, 113, 263-278.	3.0	35
11	Traffic fatality indicators in Brazil: State diagnosis based on data envelopment analysis research. Accident Analysis and Prevention, 2015, 81, 61-73.	3.0	34
12	Drivers' behavioral responses to combined speed and red light cameras. Accident Analysis and Prevention, 2015, 81, 153-166.	3.0	34
13	Road safety development in Europe: A decade of changes (2001-2010). Accident Analysis and Prevention, 2013, 60, 85-94.	3.0	33
14	Inter-national benchmarking of road safety: State of the art. Transportation Research Part C: Emerging Technologies, 2015, 50, 37-50.	3.9	32
15	Road Safety Differences between Priority-Controlled Intersections and Right-Hand Priority Intersections. Transportation Research Record, 2013, 2365, 39-48.	1.0	31
16	Towards better road safety management: Lessons learned from inter-national benchmarking. Accident Analysis and Prevention, 2020, 138, 105484.	3.0	31
17	Uncertainty assessment of the road safety index. Reliability Engineering and System Safety, 2009, 94, 1220-1228.	5.1	28
18	Modeling qualitative data in data envelopment analysis for composite indicators. International Journal of Systems Assurance Engineering and Management, 2011, 2, 21-30.	1.5	28

#	ARTICLE	IF	CITATIONS
19	Automated section speed control on motorways: An evaluation of the effect on driving speed. <i>Accident Analysis and Prevention</i> , 2014, 73, 313-322.	3.0	25
20	Crash Patterns at Signalized Intersections. <i>Transportation Research Record</i> , 2015, 2514, 105-116.	1.0	23
21	Serious Injuries: An Additional Indicator to Fatalities for Road Safety Benchmarking. <i>Traffic Injury Prevention</i> , 2015, 16, 246-253.	0.6	21
22	Sharing is (s)caring? Interactions between buses and bicyclists on bus lanes shared with bicyclists. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2017, 46, 301-315.	1.8	21
23	A hybrid system of neural networks and rough sets for road safety performance indicators. <i>Soft Computing</i> , 2010, 14, 1255-1263.	2.1	19
24	Latent risk and trend models for the evolution of annual fatality numbers in 30 European countries. <i>Accident Analysis and Prevention</i> , 2014, 71, 327-336.	3.0	19
25	Speed control with and without advanced warning sign on the field: An analysis of the effect on driving speed. <i>Safety Science</i> , 2016, 85, 23-32.	2.6	14
26	To brake or to accelerate? Safety effects of combined speed and red light cameras. <i>Journal of Safety Research</i> , 2014, 50, 59-65.	1.7	13
27	Safety effects of an extensive black spot treatment programme in Flanders-Belgium. <i>Accident Analysis and Prevention</i> , 2014, 66, 72-79.	3.0	13
28	Evaluating Trauma Management Performance in Europe: A Multiple-Layer Data Envelopment Analysis Model. <i>Transportation Research Record</i> , 2010, 2148, 69-75.	1.0	10
29	Describing the Evolution in the Number of Highway Deaths by Decomposition in Exposure, Accident Risk, and Fatality Risk. <i>Transportation Research Record</i> , 2006, 1950, 1-8.	1.0	10
30	Use of DEA and PROMETHEE II to Assess the Performance of Older Drivers. <i>Transportation Research Procedia</i> , 2015, 10, 798-808.	0.8	9
31	Evaluating Speed Enforcement Field Set-Ups Used by Regional Police in Belgium: An Analysis of Speed Outcome Indicators. <i>Safety</i> , 2017, 3, 1.	0.9	9
32	A New Weighting Approach Based on Rough Set Theory and Granular Computing for Road Safety Indicator Analysis. <i>Computational Intelligence</i> , 2016, 32, 517-534.	2.1	8
33	Applying an Alternative Approach for Assessing Sustainable Road Transport: A Benchmarking Analysis on EU Countries. <i>Sustainability</i> , 2020, 12, 10391.	1.6	8
34	Facilitating hikersâ€™ mobility in protected areas through smartphone app: a case of the Hoge Kempen National Park, Belgium. <i>Personal and Ubiquitous Computing</i> , 2021, 25, 219-236.	1.9	8
35	A new approach for index construction: The case of the road user behavior index. <i>Computers and Industrial Engineering</i> , 2021, 152, 106993.	3.4	8
36	Sustainable Road Transport in the European Union. <i>Transportation Research Record</i> , 2011, 2242, 37-44.	1.0	7

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37	Bootstrapping DEA Scores for Road Safety Strategic Analysis in Brazil. International Journal of Computational Intelligence Systems, 2015, 8, 29.	1.6	6
38	Cycling as a means to improve the health and Wellbeing of both locals and visitors of national parks. International Journal of Spa and Wellness, 2021, 4, 93-105.	0.9	6
39	EVALUATION OF ROAD SAFETY PERFORMANCE INDICATORS USING OWA OPERATORS. , 2008, , .		6
40	A DEA-BASED MALMQUIST PRODUCTIVITY INDEX APPROACH IN ASSESSING ROAD SAFETY PERFORMANCE. , 2010, , .		5
41	Combining Driving Performance Information in an Index Score. Transportation Research Record, 2014, 2434, 44-51.	1.0	3
42	Impact of Transport Network Changes on Tourism in Protected Areas: A Case Study of Ayubia National Park, Pakistan. Journal of Transportation Technologies, 2020, 10, 325-350.	0.2	3
43	TOPSIS and its Extensions: Applications for Road Safety Performance Evaluation. Atlantis Computational Intelligence Systems, 2012, , 109-130.	0.5	2
44	Development of a composite road safety performance indicator based on neural networks. , 2008, , .		1
45	Creating a composite road safety performance index by a hierarchical fuzzy TOPSIS approach. , 2010, , .		1
46	Is there a spillover effect of a right turn on red permission for bicyclists?. Transportation Research Part F: Traffic Psychology and Behaviour, 2016, 36, 35-45.	1.8	1
47	MEASURING DRIVER'S RELATIVE PERFORMANCE OVER TIME USING DEA AND WINDOW ANALYSIS. , 2016, , .		1
48	Integrating Rough Sets with Neural Networks for Weighting Road Safety Performance Indicators. Lecture Notes in Computer Science, 2009, , 60-67.	1.0	1
49	Assessing the Overall Driving Performance of Older Drivers. , 2014, , .		0
50	Assessing Road Safety Performance by Data Envelopment Analysis--The Case of Brazil. , 2014, , .		0
51	Identification of key measures to promote and enhance cycling for visiting National Parks: A case study of Peak District National Park, England. Journal of Outdoor Recreation and Tourism, 2021, 35, 100406.	1.3	0
52	Investigating Individual Driver Performance: Applying DEA on Simulator Data. Advances in Intelligent Systems and Computing, 2014, , 623-635.	0.5	0
53	Developing a Sustainable Urban Mobility Index. Advances in Data Mining and Database Management Book Series, 2017, , 20-37.	0.4	0
54	Developing a Sustainable Urban Mobility Index. , 2018, , 698-715.		0

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55	Developing a Sustainable Urban Mobility Index. , 2020, , 136-154.		0