Bert De Coensel

List of Publications by Year
in descending order

49 papers	1,455 citations	393982 19 h-index	329751 37 g-index
51 all docs	51 docs citations	51 times ranked	1102 citing authors

#	ARTICLE	IF	CITATIONS
1	Map Matching and Lane Detection Based on Markovian Behavior, GIS, and IMU Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2056-2070.	4.7	8
2	A scalable, self‑supervised calibration and confounder removal model for opportunistic monitoring of road degradation. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1703-1720.	6.3	3
3	Opportunistic monitoring of pavements for noise labeling and mitigation with machine learning. Transportation Research, Part D: Transport and Environment, 2021, 90, 102636.	3.2	10
4	Interactive soundscape augmentation by natural sounds in a noise polluted urban park. Landscape and Urban Planning, 2020, 194, 103705.	3.4	54
5	Detection of road pavement quality using statistical clustering methods. Journal of Intelligent Information Systems, 2020, 54, 483-499.	2.8	12
6	EEG Correlates of Learning From Speech Presented in Environmental Noise. Frontiers in Psychology, 2020, 11, 1850.	1.1	6
7	The Soundscape Hackathon as a Methodology to Accelerate Co-Creation of the Urban Public Space. Applied Sciences (Switzerland), 2020, 10, 1932.	1.3	7
8	Imprinted Polymer-Based Guided Mode Resonance Grating Strain Sensors. Sensors, 2020, 20, 3221.	2.1	10
9	Modifying and co-creating the urban soundscape through digital technologies. Série Cultura E Território, 2020, , 185-200.	0.1	3
10	Classification of soundscapes of urban public open spaces. Landscape and Urban Planning, 2019, 189, 139-155.	3.4	52
11	Auditory sensory saliency as a better predictor of change than sound amplitude in pleasantness assessment of reproduced urban soundscapes. Building and Environment, 2019, 148, 730-741.	3.0	18
12	A study of the performance of a generalized exceedance algorithm for detecting noise events caused by road traffic. Applied Acoustics, 2018, 138, 101-114.	1.7	12
13	Effect of interaction between attention focusing capability and visual factors on road traffic noise annoyance. Applied Acoustics, 2018, 134, 16-24.	1.7	43
14	Probabilistic Modelling of the Temporal Variability of Urban Sound Levels. Acta Acustica United With Acustica, 2018, 104, 94-105.	0.8	5
15	Machine Listening for Park Soundscape Quality Assessment. Acta Acustica United With Acustica, 2018, 104, 121-130.	0.8	6
16	Kriging-based spatial interpolation from measurements for sound level mapping in urban areas. Journal of the Acoustical Society of America, 2018, 143, 2847-2857.	0.5	48
17	Personal Audiovisual Aptitude Influences the Interaction Between Landscape and Soundscape Appraisal. Frontiers in Psychology, 2018, 9, 780.	1.1	28
18	Using Virtual Reality for assessing the role of noise in the audio-visual design of an urban public space. Landscape and Urban Planning, 2017, 167, 98-107.	3.4	118

#	Article	IF	Citations
19	The Personal Viewpoint on the Meaning of Tranquility Affects the Appraisal of the Urban Park Soundscape. Applied Sciences (Switzerland), 2017, 7, 91.	1.3	30
20	Community Response to Multiple Sound Sources: Integrating Acoustic and Contextual Approaches in the Analysis. International Journal of Environmental Research and Public Health, 2017, 14, 663.	1.2	25
21	Modeling Soundscape Pleasantness Using perceptual Assessments and Acoustic Measurements Along Paths in Urban Context. Acta Acustica United With Acustica, 2017, 103, 430-443.	0.8	47
22	Global and Continuous Pleasantness Estimation of the Soundscape Perceived during Walking Trips through Urban Environments. Applied Sciences (Switzerland), 2017, 7, 144.	1.3	15
23	A road traffic noise pattern simulation model that includes distributions of vehicle sound power levels. Applied Acoustics, 2016, 111, 170-178.	1.7	33
24	Effects of Offshore Wind Farms on the Early Life Stages of Dicentrarchus labrax. Advances in Experimental Medicine and Biology, 2016, 875, 197-204.	0.8	0
25	Dynamic noise mapping: A map-based interpolation between noise measurements with high temporal resolution. Applied Acoustics, 2016, 101, 127-140.	1.7	65
26	The acoustic summary as a tool for representing urban sound environments. Landscape and Urban Planning, 2015, 144, 34-48.	3.4	16
27	Presence of 1/f noise in the temporal structure of psychoacoustic parameters of natural and urban sounds. Journal of the Acoustical Society of America, 2015, 138, 916-927.	0.5	11
28	In Situ Mortality Experiments with Juvenile Sea Bass (Dicentrarchus labrax) in Relation to Impulsive Sound Levels Caused by Pile Driving of Windmill Foundations. PLoS ONE, 2014, 9, e109280.	1.1	12
29	Long-term learning behavior in a recurrent neural network for sound recognition. , 2014, , .		3
30	A biologically inspired recurrent neural network for sound source recognition incorporating auditory attention. , 2013, , .		5
31	Perceptual constancy in auditory perception of distance to railway tracks. Journal of the Acoustical Society of America, 2013, 134, 474-480.	0.5	2
32	A computational model of auditory attention for use in soundscape research. Journal of the Acoustical Society of America, 2013, 134, 852-861.	0.5	40
33	Activity Interference Caused by Traffic Noise: Experimental Determination and Modeling of the Number of Noticed Sound Events. Acta Acustica United With Acustica, 2013, 99, 389-398.	0.8	8
34	The internet of sound observatories. Proceedings of Meetings on Acoustics, 2013, , .	0.3	6
35	Reduction of Wind Turbine Noise Annoyance: An Operational Approach. Acta Acustica United With Acustica, 2012, 98, 392-401.	0.8	16
36	Interference of Speech and Interior Noise of Chinese High-Speed Trains with Task Performance. Acta Acustica United With Acustica, 2012, 98, 790-799.	0.8	5

#	ARTICLE	IF	CITATIONS
37	Attention-driven auditory stream segregation using a SOM coupled with an excitatory-inhibitory ANN. , 2012, , .		5
38	Effects of traffic signal coordination on noise and air pollutant emissions. Environmental Modelling and Software, 2012, 35, 74-83.	1.9	66
39	Relationship between road and railway noise annoyance and overall indoor sound exposure. Transportation Research, Part D: Transport and Environment, 2011, 16, 15-22.	3.2	25
40	Assessment of the impact of speed limit reduction and traffic signal coordination on vehicle emissions using an integrated approach. Transportation Research, Part D: Transport and Environment, 2011, 16, 504-508.	3.2	125
41	Effects of natural sounds on the perception of road traffic noise. Journal of the Acoustical Society of America, 2011, 129, EL148-EL153.	0.5	133
42	Speech recognition in noise with active and passive hearing protectors: A comparative study. Journal of the Acoustical Society of America, 2011, 129, 3702-3715.	0.5	12
43	Context-dependent environmental sound monitoring using SOM coupled with LEGION. , 2010, , .		11
44	A model for the perception of environmental sound based on notice-events. Journal of the Acoustical Society of America, 2009, 126, 656-665.	0.5	76
45	Clustering outdoor soundscapes using fuzzy ants. , 2008, , .		6
46	A model for long-term environmental sound detection. , 2008, , .		5
47	The Rhythm of the Urban Soundscape. Noise and Vibration Worldwide, 2007, 38, 11-17.	0.4	7
48	The temporal structure of urban soundscapes. Journal of Sound and Vibration, 2006, 292, 105-123.	2.1	112
49	The influence of traffic flow dynamics on urban soundscapes. Applied Acoustics, 2005, 66, 175-194.	1.7	83