Design of a Mobile Low-Cost Sensor Network Using Urban Buses for Real-Time Ubiquitous Noise Monitoring

DOI: 10.3390/s17010057
Sensors, 2016, 17, .

#	Paper	IF	Citations
23	An Efficient Audio Coding Scheme for Quantitative and Qualitative Large Scale Acoustic Monitoring Using the Sensor Grid Approach. *Sensors*, **2017**, 17,	3.8	6
22	Innovative Approaches for Noise Management in Smart Cities: a Review. *Current Pollution Reports*, **2018**, 4, 143-153	7.6	13
21	Capturing the Sounds of an Urban Greenspace. *SSRN Electronic Journal*, **2018**,	1	
20	Wireless Sensor Networks for Long-Term Monitoring of Urban Noise. *Sensors*, **2018**, 18,	3.8	21
19	SensingBus: Using Bus Lines and Fog Computing for Smart Sensing the City. *IEEE Cloud Computing*, **2018**, 5, 58-69		11
18	Accurate Indoor Sound Level Measurement on a Low-Power and Low-Cost Wireless Sensor Node. *Sensors*, **2018**, 18,	3.8	10
17	On the Coverage of Bus-Based Mobile Sensing. *Sensors*, **2018**, 18,	3.8	7
16	Maximizing Coverage Quality with Budget Constrained in Mobile Crowd-Sensing Network for Environmental Monitoring Applications. *Sensors*, **2019**, 19,	3.8	15
15	Sensing, Controlling, and IoT Infrastructure in Smart Building: A Review. *IEEE Sensors Journal*, **2019**, 19, 9036-9046	4	50
14	Deploying Acoustic Detection Algorithms on Low-Cost, Open-Source Acoustic Sensors for Environmental Monitoring. *Sensors*, **2019**, 19,	3.8	22
13	Long-Term Temporal Analysis of Psychoacoustic Parameters of the Acoustic Environment in a University Campus Using a Wireless Acoustic Sensor Network. *Sustainability*, **2020**, 12, 7406	3.6	3
12	A Real-Time Noise Monitoring System Based on Internet of Things for Enhanced Acoustic Comfort and Occupational Health. *IEEE Access*, **2020**, 8, 139741-139755	3.5	4
11	In situ assembly of a wearable capacitive sensor with a spine-shaped dielectric for shear-pressure monitoring. *Journal of Materials Chemistry C*, **2020**, 8, 15634-15645	7.1	7
10	Development of a Test-Bench for Evaluating the Embedded Implementation of the Improved Elephant Herding Optimization Algorithm Applied to Energy-Based Acoustic Localization. *Computers*, **2020**, 9, 87	1.9	3
9	A delay-aware coverage metric for bus-based sensor networks. *Computer Communications*, **2020**, 156, 192-200	5.1	
8	A Digital Signal Processor Based Acoustic Sensor for Outdoor Noise Monitoring in Smart Cities. *Sensors*, **2020**, 20,	3.8	6
7	Low-Cost Sensors for Urban Noise Monitoring Networks-A Literature Review. *Sensors*, **2020**, 20,	3.8	16

6	Cluster Analysis of Urban Acoustic Environments on Barcelona Sensor Network Data. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	2
5	RAP: A Software Framework of Developing Convolutional Neural Networks for Resource-constrained Devices Using Environmental Monitoring as a Case Study. *ACM Transactions on Cyber-Physical Systems*, **2021**, 5, 1-28	2.3	
4	Mobile Crowd-sensing Applications: Data Redundancies, Challenges, and Solutions. *ACM Transactions on Internet Technology*, **2022**, 22, 1-15	3.8	5
3	A Low-Cost Multi-Purpose IoT Sensor for Biologging and Soundscape Activities. **2022**, 22, 7100		0
2	Street-level heat and air pollution exposure informed by mobile sensing. **2022**, 113, 103535		0
1	Integrated assessment of personal monitor applications for evaluating exposure to urban stressors: A scoping review. **2023**, 226, 115685		0