



Monitoring and Prediction of Traffic Noise in Large Urban Zones

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Message from the Guest Editors

Dear Colleagues,

Road traffic noise is the cause of challenging health-related issues in large urban environments. Indeed, long-term noise exposure to traffic noise is responsible for a variety of health-related problems, such as sleep disorder and tiredness, increased cardiovascular risk and hypertension, mental performance, and also its relationships between annoyance and exposure to transportation noise. The increasing awareness on these issues has promoted new EU policies through the Environmental Noise Directive (END) of 2002 and the WHO Environmental noise guidelines in 2018, by encouraging the use of distributed monitoring systems and noise mapping as an advanced tool for the control of noise exposure.

For this Special Issue, we invite authors actively working in the field of traffic noise and related areas, especially in the field of sensor networks for monitoring and controlling traffic noise. Statistical models of traffic noise, innovative analysis of health-related issues associated with noise and relationships between annoyance and exposure to urban noise, with particular emphasis on the detection of “disturbing” sound events, are also welcome.





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Message from the Editor-in-Chief

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