

## Special Issue

# Monitoring and Prediction of Traffic Noise in Large Urban Zones

### Message from the Guest Editors

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.

---

### Guest Editors

Dr. Hector Eduardo Roman

Dr. Roberto Benocci

Dr. Giovanni Zambon

---

### Deadline for manuscript submissions

closed (20 June 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/66762](https://mdpi.com/si/66762)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/  
appls](https://mdpi.com/journal/appls)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )