

Special Issue

Noise in Europe: New Methods and Best Practices for Implementing EU Policy

Message from the Guest Editors

The fourth round of noise mapping according to Directive 2002/49/EC is ongoing. This is the first official application of the CNOSSOS common method for noise assessment. Several steps forward have been made towards common approaches and comparable results.

However, many challenges are still open. This Special Issue intends to collect showcases and research papers in the field of noise mapping with a focus on the large-scale implementation of common methods. Particular attention will be given to papers covering: Open category implementation in road source model; Low-cost sensors and Web-based systems for input data estimation;

Big data derived by social media in noise mapping exercises;

Fourth-round noise mapping: consideration of 2020 traffic data (within COVID-19 mobility restriction); Relevant issues on model results;

Adaptation of CNOSSOS method to the EU-member-specific situation;

Analysis of previous results and expected differences in maps with the new standard;

New approaches in noise mapping: neural networks, deep learning;

3D-noise mapping;

Dynamic noise mapping;

Implementation of directive 2020/367.

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