



Low-Noise Road Surfaces

Guest Editor:

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Dear Colleagues,

The use of low-noise surfaces is a popular and cost effective way to coat road surfaces aiming at reducing traffic noise and consequently its pernicious effect on people. Porous asphalt and thin layers are traditionally used to reduce noise, because of their high porosity and optimized macrotexture. A few attempts to introduce alternative materials and new techniques have been made, challenging current practices. Also, substantial reductions of tyre–road noise levels are soon expected due to the ongoing research on a new generation of low-noise surfaces—the poroelastic surfaces. Research work on durability, acoustic ageing and acoustic classification of the road surfaces is in constant demand. Impacts with social repercussions, such as safety and annoyance, are also being analysed. The goal of this Special Issue is to present the most promising materials (including cement concrete), techniques and methods under development, to address these research needs and to identify new ones. Further, to promote the use of low-noise surfaces by giving a better insight of the cost/benefit when selecting such a noise mitigating measure and, at the same time, the impact on society.

The interdisciplinary nature of the work calls for cooperation in many fields to provide high performance low-noise surfaces.

Dr. Elisabete F. Freitas

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Special Issue Topics:

- low-noise road surfaces
- acoustic ageing
- durability
- annoyance
- traffic detection
- acoustic characteristics
- sound absorption
- texture
- CPX
- SPB