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Editorial

Advanced characterization of functional pavement materials and structures

With the ever increasing demand for the riding quality and long service life of the pavement, more and more research efforts are focusing on the functional pavement with respect to the evaluation of the functional performance, material development and characterization, and the test methods. This issue of International Journal of Transportation Science and Technology features a collection of peer-reviewed articles that promote functional pavement design, riding quality and long service life of the pavement. These papers include

- 1. Initial evaluation methodology and case studies for life cycle impact of permeability of permeable pavements
- 2. Effects of temperature variations on the deflections of airfield jointed plain concrete pavements
- 3. Study on application of cement substituting mineral fillers in asphalt mixture
- 4. Investigation of microstructure characteristics of porous asphalt with relevance to acoustic pavement performance
- 5. Influence of temperature on the cracking behavior of asphalt base courses with structural weaknesses
- 6. Development of an acoustically optimized multi-layer surface-system based on synthetics

These six papers have been peer reviewed under the journal's rigorous review criteria. The collection includes invited papers from experts in international communities, and articles submitted by the authors.

The guest editors of this special issue appreciated the chief editor and staff in the editorial office of the International Journal of Transportation Science and Technology for their assistance during the course of organizing and publishing this special issue. Furthermore, the guest editors would also like to thank the dedicated reviewers who contributed their valuable time in the manuscript review and re-review processes.

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