

## Special Issue on **Emerging Trends on Optimization and Control under Uncertainty in Transportation and Construction**

# CALL FOR PAPERS

In the real world, many problems are characterized by the necessity of making decisions with incomplete information and uncertainty. In such settings, many existing optimization and control results need to be redeveloped to cope with these uncertain effects and a variety of interesting challenges should be tackled at the same time. In fact, those emerging problems are a key source of new research and application. Innovative approaches for new computational and theoretical results of stochastic (robust) optimization and optimal control are critical to provide best decisions in the perturbative environments.

On the other hand, in the area of application such as transportation and construction, the uncertainty effect has received strong attention widely and is regarded as an important reason to decrease the system efficiency. To control and maximize the efficiency, various optimization and control problems under uncertainty are expected to be formulated and solved appropriately using advanced analytical or numerical methods.

This special issue aims to publish high-quality papers related to methodologies of dealing with uncertainty in optimization and control and the linkages between theoretical methodology and emerging applications.

Potential topics include but are not limited to the following:

- ▶ Optimization and optimal control under uncertainty in motor transportation
- ▶ Robustness of optimization and control in transportation and construction
- ▶ Complex dynamical networks with uncertainty in magnetic levitation vehicles
- ▶ Stochastic optimization and stochastic optimal control in cement and construction
- ▶ Stochastic variational inequality in construction and traffic control
- ▶ Stochastic games and robust games in transportation management and route guidance

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/mpe/otcs/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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### **Publication Date**

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