

**Smart Transportation Systems
(KES-STS-18) Introduction**

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Modern transportation systems have been transforming rapidly in recent years. The innovations and breakthroughs have motivated researchers on Smart Transportation Systems (STS) to expand the frontiers of relevant concepts and skillsets, which will affect the transport infrastructure modelling, safety analysis, freeway operations, intersection analysis, and other related leading edge topics. The papers in the STS section of this volume provide a snapshot of the latest developments in this area.

The topics includes Drone Deployment for Monitoring Air Pollution from Ships, multi-period performance of non-storable production with carry-over activities, Urban Rail Transit Demand Analysis and Prediction, Pricing of Shared-parking, estimation of the value of travel time, Stochastic Traffic Flow Fundamental Diagram, Passenger Car Equivalents, Road Functional Classification, New York Citi Bike System, Modeling and Analysis of Crash Severity for Electric Bicycle, signal timing strategies, Large Passenger Transfer Hub, Traffic impact analysis, Urban Distribution System, and connected and automated vehicles. The methods employed range from statistical analysis to discrete event modelling, from numerical data driven analysis to analytical investigation, from traffic flow theory to network modelling, and from urban transport to rural mobility corridors.

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