

Transportation Research Part C: Emerging Technologies



Call for Papers

Special Issue: Short-Term Traffic Flow Prediction

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Transportation Research: Part C, indexed in SCI-Science Citation Index, is devoted to the publication of high-quality, scholarly research in transportation that addresses the development and applications of emerging technologies from such fields as operations research, statistics, computer science, electronics, control systems, artificial intelligence, and telecommunications. We are organizing a special issue of the journal dedicated to state-of-the-art methodology and practice of short-term traffic flow prediction.

Timely and accurate prediction of traffic flow conditions is essential for proactive traffic management and control. Due to the heterogeneous and dynamic nature of traffic and nonlinear interactions between drivers and environments, the prediction of traffic condition in the near future has attracted significant research interest in recent years and is playing an increasingly important role in many ITS applications such as Advanced Travelers Information Systems (ATIS), Advanced Traffic Management Systems (ATMS) and Emergency Management System (EMS).

Researchers and practitioners are invited to submit original contributions on short-term prediction of traffic flow or other traffic flow measures such as speed and travel time. The prediction of flow conditions on all types of traffic facilities, including freeway, arterial, and intersection, is suitable for this special issue. While there are no limitations as to any specific type of methodology, a comparison of

results with those from the methods in existing literature is desirable to demonstrate the advantages of the proposed method. We also encourage the use of real-world data with sufficient quantity.

All submitted papers will be subject to the journal's standard peer review process. Criteria for acceptance include originality, contribution, and scientific merit. For author guidelines, please visit the website of the Journal: <http://ees.elsevier.com/trc>. Authors who are interested in contributing papers should submit their papers online at the journal website and indicate that the paper is being submitted for consideration for publication in this special issue.

All inquiries regarding this call for papers should be directed to Drs: Zhang (yzhang@civil.tamu.edu) and Karlaftis (mgk@mail.ntua.gr).