

[SPECIAL SESSION]

TRANSIT ROUTING AND ASSIGNMENT

Coordinators

Dr. Jan-Dirk Schmoecker
Assoc. Prof., Tokyo Institute of Technology

Dr. Achille Fonzone
Research Assoc., Imperial College London,

Dr. Fumitaka Kurauchi
Assoc. Prof., Gifu University

Objectives of the session

The session's primary objectives are to **gather experience, establish good practices and develop a research agenda** to enhance understanding of how ITS technologies can help design better infrastructure and support different transportation supply and demand management strategies, including active traffic management, data collection improvements, dynamic traffic information, users' networking, context-aware systems.

Any initial ideas of specific contributors the estimated number of papers

Prof. Michael Bell (Imperial College London)
Prof. Guido Gentile (University of Rome)
Mr. Norman Rochau (PTV)
Dr. Hiroshi Shimamoto (Hiroshima Univ.)
Dr. Achille Fonzone (ICL)
Dr. Jan-Dirk Schmoecker (TiTech)
Dr. Fumitaka Kurauchi (Gifu Univ)
Possibly 5 to 10 papers.

[SPECIAL SESSION]

Abstract

Efficient use of public transport system is one of the key issues for the development of sustainable societies. To explore the flow on transit, many transit assignment modelling techniques have been proposed since late 80s, when the concept of optimal strategies to handle common lines problems is proposed. This concept lies on the strong assumptions of perfect knowledge and rational behaviour theorem, and the result may not explain the actual behaviour. Based on the above background, this special session focuses on the routing behaviour on the transit network. Papers in this broad topic such as proposing innovative routing criterion, exploring actual routing behaviour using questionnaire surveys or smartcard data are invited. We shall discuss the validity of the assumptions on routing behaviour as well as new directions for transit routing modelling.

Efficient use of public transport system is one of the key issues for the development of sustainable societies. To better represent the flow in transit networks, many assignment techniques have been proposed since the late 80s, when assignment concepts incorporating complex routing strategies to handle common lines problems were first proposed. The approaches mostly rely on the strong assumptions of perfect user knowledge and unbounded rationality, which may not explain the actual behaviour well. Based on the above background, this special session focuses on the routing behaviour in transit networks. Papers in this broad topic such as proposing innovative route selection criteria, exploring actual route choice behaviour using questionnaire surveys or smartcard data, and information system such as journey planner to complement user knowledge are invited. The aim is to discuss the validity of the assumptions on routing behaviour as well as new directions for transit routing modelling.