Preface

Contemporary cities cannot function properly without intelligent solutions. Computer science supports people in many aspects of life. Quality of travel and transport exerts significant influence on social and economic growth. Development of individual components of Intelligent Transport Systems and diverse organizational solutions directly contributes to improving the manner in which transport functions. However, it is also very important in terms of how travel behaviour is shaped.

This publication contains selected papers submitted to and presented at the 13th "Transport Systems. Theory and Practice" Scientific and Technical Conference organized by the Department of Transport Systems and Traffic Engineering at the Faculty of Transport of the Silesian University of Technology (Katowice, Poland). The problems addressed in the publication entitled *Intelligent Transport Systems and Travel Behaviour* have been divided into four parts:

- Part I Modelling of Transport Systems and Travelling Behaviour,
- Part II Smart Cities and Green Travelling,
- Part III Modern Transport and Logistics in Urban Areas,
- Part IV New Solutions for Transport Systems in the World.

The challenges emerging from transport systems, connected with the growing number of travels, particularly those made by individual means of transport, cause heavy congestion, especially in town centres, and indirectly contribute to considerable loss of time among those travelling as well as to the increase of noise, fuel consumption and emission of harmful substances into the environment. Recommendations or even guidelines pertaining to the trends observed in the development of transport systems may in fact be brought down to two spheres of desirable effects one should pursue:

- the necessity of changes to the modal split of traffic, including to the share of public transport, and the increasing relevance of railway and intermodal transport and
- changes in terms of the energy sources used.

Both the aforementioned aspects have been extensively addressed in the papers provided in the publication. Respective authors have highlighted selected problems using practical examples, at the same time emphasizing the pursuit of solutions which may satisfy the needs of mankind as well as those of natural environment in the optimum manner.

I would like to express my deepest gratitude to all authors, for reflecting the key problems of contemporary transport systems in a concise manner, as well as to reviewers, in recognition of their insightful remarks and suggestions without which this collection of papers would have never been published.

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