

Editorial introduction: Transportation-oriented Urban Planning and Management

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Editorial introduction

Transportation-oriented Urban Planning and Management

Guest Editors

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“2018 International workshop on urban planning and management, Toyota Japan” was held on 25-26th May 2018. Though some parts of the workshop such as keynote and special speeches, and oral sessions, etc., attendees widely discussed methods and applications of transportation-oriented urban planning for achieving sustainable development.

Table 1 shows the title and speaker of keynote and special speeches. In their speeches, present situation and future prospect of transportation in China which continues to develop rapidly were introduced from a large perspective. In relation to one of their biggest problems “traffic congestion”, the latest research on identifying method of the reliable and reasonable route to be provided was also presented. On the other hand, with respect to “Connected, Autonomous, Shared, Electric” (CASE) and “Mobility as a Service” (MaaS) which may bring revolutionary change to the automotive industry and the concept of human mobility, their prospects from a broad perspective and specific study results were given.

Table 1. Title and speaker of keynote speech and special speech

No.	Title	Speaker
Keynote speech 1	Transportation Development Strategy in China	Professor Dr. Huapu Lu, Tsinghua University, China
Keynote speech 2	Vehicle Transport System by Sharing, Electrification and Automatization	Professor Dr. Toshiyuki Yamamoto, Nagoya University, Japan
Keynote speech 3	Identifying the Effective Paths of Crowded Traffic Network Based on Reverse Depth-First Search Algorithm	Associate professor Dr. Jianxu Zhang, Chongqing Jiaotong University
Retirement commemoration speech	Impacts of Connected and Automated EV Systems on Transport-Based Community Development	Dr. Katsutoshi Ohta, Director General of Toyota Transportation Research Institute (TTRI), Japan

In the oral sessions, studies targeting various research areas including China, Indonesia, UAE and Algeria in addition to the host country Japan were presented. Research fields are also diverse, including transportation, planning, design, environment and disaster etc.

This special issue consists of four research papers which were selected because of their superiority among fifteen research presentations in the oral

sessions. It can be roughly classified into two directions of planning and bicycle.

From the viewpoint of urban planning to live without depending on the automobile and responding to an ageing society, the importance of research on walkability in public space is increasing. [Eom and Suzuki \(2019\)](#) investigated the distribution characteristics of the pedestrian space in central Tokyo premised on utilization for the spatial plan. And the results give suggestions on the relationship between pedestrian space and regional characteristics.

Not only pedestrian space but also urban plaza is the important element for a comfortable and satisfying life, and the design of the plaza with high and aesthetic quality is a mission for designers. [Bendjedidi, Bada, and Meziani \(2019\)](#) proposed a method based on space syntax analysis integrated with various qualitative analysis methods as a tool of plaza layout design process. The method was applied to "El-Houria Plaza" in Biscara City, Algeria, and the results indicate highly dependent on the visibility to the spatial use of the plaza.

In Chinese major cities, sharing bicycles are spreading rapidly. There are two types of sharing system, one is a conventional docked system and the other is a spreading dock-less system. [Li and Tang \(2019\)](#) conducted a survey and analysis to find a win-win strategy for the two systems, and authors suggested that a new shared bicycle system which combines the advantages of both types of sharing bicycles will be a better solution for small to medium-sized cities.

Cycling is becoming increasingly popular not only as transportation mode but also as a leisure and health promotion. [Xu, Yuan, and Li \(2019\)](#) discuss the reasons why people choose to ride a bicycle, how they benefit from bicycle-based leisure activities, and how their happiness is improved. Based on survey analysis, it reveals that leisure benefits are positively affected by cycling motivation and both cycling motivation and leisure benefits have a positive impact on well-being.

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