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新兴交通系统建模的最新进展

“开罗交通、中西交匯”
大师系列讲座

主讲人：
Constantinos Antoniou

德国慕尼黑工业大学 终身教授
希腊交通工程师协会 主席

2022.11.09
下午15:00 (星期三)
腾讯会议：110-608-398



直播链接

主讲人简介

Constantinos Antoniou is Professor of Urban Transportation Engineering and Director, the Institute of Urban and Transportation Engineering (IUTE) at the Technical University of Munich (TUM). He is also a Senior Research Fellow at the Institute of Transport Studies (ITS) at the University of Leeds. He is a member of the European Association of Transport Engineers (EATTE) and the Hellenic Association of Transportation Engineers (HATTE). He has published over 100 papers in the field of urban transportation engineering and is the author of the book "Urban Transportation Engineering" (Elsevier, 2010). He is also the author of the book "Urban Transportation Engineering: A Systems Approach" (Elsevier, 2015). He is currently working on the development of a new generation of urban transportation systems, which will be based on the use of intelligent transportation systems (ITS) and the integration of different modes of transport.

内容摘要

Mobility is a very exciting field with new modes showing up (and sometimes disappearing) overnight. These modes are no longer centrally planned, but are often the result of startup activities, which focus on their operation and often neglect prior planning and evaluation of their wider impacts. Thus, many questions arise regarding the prediction of these impacts, including the interaction with other modes and the generation of induced demand. In this talk, I will discuss how novel data collection techniques, algorithmic and computational advances can help us answer some of these questions. Different approaches to modeling emerging mobility modes will be presented, along with an overview of applications in real cases. Besides existing models, approaches to anticipate the demand for and impact of currently unsuitable modes, such as flying taxis and hyperloop, will also be discussed.

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