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High Definition Maps for Intelligent Transportation Applications

Guest Editors:

Prof. Dr. Kai-Wei Chiang

High Definition Maps Research Center, Department of Geomatics, National Cheng Kung University, No.1, Ta-Hsueh Road, Tainan 701, Taiwan

Dr. Chenglu Wen

Department of Artificial Intelligence, School of Informatics, Xiamen University, Xiamen 361005, China

Dr. Mohamed Elhabiby

Public Works Department, Faculty of Engineering, Ain Shams University, Cairo11535, Egypt

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Message from the Guest Editors

Autonomous driving vehicles, or self-driving cars, have seen enormous progress in recent years. With advances in computing and sensor technologies, onboard systems can deal with a large amount of data and achieve real-time processes continuously and accurately. These systems also handle several specialized functional schemes such as positioning, mapping, perception, motion planning, and control. These key components are essential for the vehicle to achieve fully autonomous operation. In addition, highdefinition (HD) maps provide detailed map information for navigating autonomous vehicles to ensure navigation safety to protect human lives. The map itself serves as an additional "pseudo sensor" of the car and significantly enhances the performance and accuracy of perception and positioning algorithms, which are necessary for the vehicle to drive autonomously.

This Special Issue will cover relevant topics and trends in high-definition (HD) maps for intelligent transportation applications and also introduce the new tendencies of this new paradigm in geospatial science.







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Editor-in-Chief

Prof. Dr. Naser El-Sheimy

Department of Geomatics Engineering, The University of Calgary, Calgary, AB T2N 1N4, Canada

Message from the Editor-in-Chief

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