

Development of Automated Processing for High-Definition Mapping System

Prachaya Daruthep and Nikorn Sutthisangiam

Department of Computer and Information Science, King Mongkut's University of Technology North Bangkok, Thailand

p.daruthep@gmail.com, nikorn.s@sci.kmutnb.ac.th

Abstract— High-Definition (HD) Mapping is a system using Mobile Mapping System (MMS) technique to create HD panoramic point cloud map of the georeferenced location. The process to create the HD maps consists of joint processing of large amount of data originating from various sources. These data go through various post-processing steps using associated software to create a resulting HD point cloud map. To run these processes successfully require an appropriate processing server, a correct flow of processing sequence and validation of the input/output data. These processes are error-prone and time-consuming for human users. This paper is presented to illustrate practicality of an automated processing system for the creation of HD map, which can boost the efficiency of data processing for the whole system.

Keyword— Automation, Big Data, Data Storage, High-Definition Mapping, Post Processing



Prachaya Daruthep received Bachelor degree in Computer Science from School of Information Technology, King Mongkut's University of Technology Thonburi, Thailand, in 2006. Currently studying Master degree in Department of Computer and Information Science, Faculty of Applied Science, King Mongkut's University of Technology North Bangkok, Bangkok, Thailand, with expected graduation year to be 2020



Nikorn Sutthisangiam received Bachelor degree in Electrical Engineering from Faculty of Engineering, King Monkut's Institute of Technology North-Bangkok, Thailand in 2003. Master of Science in Communications Engineering and Doctoral degree in Electrical Engineering from The Sirindhorn International Thai-German Graduate School of Engineering (TGGs), King Monkut's Institute of Technology North-Bangkok, Thailand, in 2006 and 2014, respectively.