

Earthwork Volumes Estimation in Asphalt Pavement Reconstruction Using a Mobile Laser Scanning System

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Abstract — This paper presents a novel method for estimating earthwork volumes in asphalt pavement reconstruction using a mobile laser scanning (MLS) system. First, based on the static targets, this method registers two point cloud datasets into the same coordinate system, which respectively are acquired in the reconstructing road before and after asphaltting. Next, road surface points are detected from each point cloud using a curb-based method, and further divided into a set of blocks. Afterwards, the blocks are perpendicularly partitioned into grids, where two surface features are extracted using the RANSAC. Finally, the volume of each grid is calculated according to these two surface features. The proposed algorithm has been tested on two sets of point clouds acquired by a RIEGL VMX-450 MLS system in the reconstructing road before and after asphaltting. The results demonstrate the accuracy and efficiency of the proposed algorithm in estimating earthwork volumes.

Index Terms — Mobile laser scanning, point cloud, earthwork volume estimation, asphalt pavement reconstruction, road surface detection

I. INTRODUCTION

Earthwork volumes based on which contractors are paid for highway construction are usually used in determining the economic distribution of earthwork [1]. It is one of the most important components in estimating highway construction costs. Accurate estimation of earthwork volumes is essential because disagreements on the estimated volumes often cause the owner and the contractor to look to courts for settlement [2]. Therefore, a good method for accurately estimating earthwork volumes is essential.

Many models for accurately estimating earthwork volumes have been intensively studied in literature. The average end area model and prismoidal model [3] were commonly employed for estimating earthwork volumes. The prismoidal model gave an exact volume for linear profiles, while the average end area model generally overestimated the volume. A mathematical model that provided the exact volume of curved roadways with linear profiles between stations was developed in [4]. Based on triple integration, this model assumed that the ground cross slope was constant between stations. In [5], a Monte Carlo based model was

proposed for estimating earthwork volumes of curved roadways. Using terrestrial laser scanning (TLS) technology, a detailed model before and after construction was created in [6], and earthwork quantities were calculated by comparing the triangular irregular network (TIN) of the original terrain to that of the accomplished project. 3D laser scanning and global positioning system (GPS) were used to acquire landslide data and to compute earthwork volumes in [7]. In this method, original 3D contour of the area and the landslide digital terrain model (DTM) were first obtained, and the DTM based on the base point was overlapped to the original contour at the same coordinate position and direction. Next, the volumes of collapse were estimated by the difference between the terrain features before and after landslide.

In recent years, the society has witnessed a rapid development of mobile laser scanning (MLS) systems which can acquire dense and accurate point cloud data with high pulse repetition rates. The MLS has been successfully used in many fields such as industries, arts, and engineering, due to its capability of acquiring data accurately and densely [8], [9]. The benefits of using laser scanners on construction field are the rapid raw data acquisition, easy levelling process, fewer human errors, and reliable reference for engineers. Therefore, MLS techniques are suitable for this study to compute earthwork volumes.

In this paper, we propose a novel method for estimating earthwork volumes from MLS point clouds. First, two point cloud datasets are respectively acquired by the RIEGL VMX-450 MLS system in the reconstructing road before and after asphaltting. For estimating the whole earthwork volumes, the two point clouds are then registered into the same coordinate system based on the static targets coexisting in both point clouds. Next, a curb-based method [10] is used to detect road surfaces for each point cloud and further divide them into blocks. Afterwards, each block is perpendicularly partitioned into a set of grids, where two surface features are extracted using the RANSAC [11]. Finally, the volume of each grid is calculated according to these two surface features. The experimental results demonstrate the accuracy and efficiency of the proposed

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Proceedings of the Second International Conference on Innovations in Computing Research (ICR'23) Kevin Daimi, Abeer Al Sadoon, 2023-06-16 The Second International Conference on Innovations in Computing Research ICR 23 brings together a diverse group of researchers from all over the world with the intent of fostering collaboration and dissemination of the innovations in computing technologies The conference is aptly segmented into six tracks Data Science Computer and Network Security Health Informatics and Medical Imaging Computer Science and Computer Engineering Education Internet of Things and Smart Cities Smart Energy These tracks aim to promote a birds of the same feather congregation and maximize participation The Data Science track covers a wide range of topics including complexity score for missing data deep learning and fake news cyberbullying and hate speech surface area estimation analysis of gambling data car accidents predication model augmenting character designers creativity deep learning for road safety effect of sleep disturbances on the quality of sleep deep learning based path planning vehicle data collection and analysis predicting future stocks prices and trading robot for foreign exchange Computer and Network Security track is dedicated to various areas of cybersecurity Among these are decentralized solution for secure management of IoT access rights multi factor authentication as a service MFAaaS for federated cloud environments user attitude toward personal data privacy and data privacy economy host IP obfuscation and performance analysis and vehicle OBD II port countermeasures The Computer Science and Engineering Education track enfolds various educational areas such as data management in industry academia joint research a perspective of conflicts and coordination in Japan security culture and security education training and awareness SETA influencing information security management engaging undergraduate students in developing graphical user interfaces for NSF funded research project and emotional intelligence of computer science teachers in higher education On the Internet of Things IoT track the focus is on industrial air quality sensor visual analytics social spider optimization meta heuristic for node localization optimization in wireless sensor networks and privacy aware IoT based fall detection with infrared sensors and deep learning The Smart Cities and Smart Energy track spans various areas which include among others research topics on heterogeneous transfer learning in structural health monitoring for high rise structures and energy routing in energy Internet using the firefly algorithm

Circular Economy for Buildings and Infrastructure Jian Zuo, Liyin Shen, Ruidong Chang, 2024-05-03 This edited volume covers theoretical and practical aspects of circular economy in building development offering chapters dealing with topics such as material design affordability of housing development waste management and recycling smart metering and more A particular focus is placed on various stakeholders points of view The book's chapters are co developed and contributed by multidisciplinary teams including both academics and industry practitioners The case study oriented approach taken here helps to facilitate the reader's understanding of how building sustainability can be achieved in the context of circular economy The building industry has significant environmental social and economic impacts

As one of the biggest energy consumers and carbon emitters building sustainability has attracted wide attention globally Building projects and their associated activities consume a large amount of energy natural resources and water while producing a large proportion of wastes throughout their lifecycles The traditional linear approach of make use and dispose has been heavily criticized whilst the circular approach has gained momentum Indeed circular economy has emerged as one of key principles to manage sustainability related issues by means of focusing on the circularity of resources as well as the cost implications

Proceedings of the 5th International Conference on Transportation Geotechnics (ICTG) 2024, Volume 7 Chalachat Rujikiatkamjorn,Jianfeng Xue,Buddhima Indraratna,2024-10-22 This book presents select proceedings of the 5th International Conference on Transportation Geotechnics ICTG 2024 It includes papers on ground improvement methodologies dynamics of transportation infrastructure and geotechnical intricacies of mega projects It covers topics such as underground transportation systems and heights of airfields and pavements This book discusses diverse thematic landscapes offering profound explorations into sensor technologies data analytics and machine learning applications The publication highlights advanced practices latest developments and efforts to foster collaboration innovation and sustainable solutions for transportation infrastructure worldwide The book can be a valuable reference for researchers and professionals interested in transportation geotechnics

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