

Guest Editorial

Geomatics and Geospatial Technology (GGT) 2022



The 8th International Conference on Geomatics and Geospatial Technology (GGT) 2022 aims to continue its success in providing a platform for knowledge sharing and discussion as well as exhibiting the recent advancement in researches, projects and technology development. The entire conference was streamed online May 25-26, 2022. The theme is “Geospatial Technologies Tackling Global Challenges”. This unique theme is very much relevant to what is happening to the world we are now at. It is much hope that this conference will lead the path for us to pave and build trust within and across communities to address these multitude of challenges that demands us to work together. It is also hoped that it will strengthen our commitment and collaboration in resolving and achieving a more sustainable and equitable future.

I would like to commend the efforts of Associate Professor Dr Khairul Nizam Tahar, Sr Dr Saiful Aman Hj Sulaiman, Gs Dr Nabilah Naharudin and Dr Nafisah Khalid, Guest Editors of Special Issue in combining with other technologies such as drones, AI, Big Data and cloud computing, geospatial technology has proven its potential in tackling global challenges.

The issue contains research papers on analysing the impact of road intersection’s safety towards road accidents by using ordinary least square regression and crop monitoring of paddy field using landsat 8 OLI. It is very interesting to read the article on GIS based on road safety and crop monitoring of paddy field in Malaysia. There is another interesting research on National Task Force (NTF) reporting through Defence Geospatial Information Management (DGIM) Platform. This platform involves various agencies to ensure border security and prevent the spread of outbreak brought from the entry of illegal immigrants. There is paper on significance of geometrical condition in preserving the quality of TLS measurement. To acquire complete three-dimensional (3D) data that cover the whole surface of the scanned object, multiple scan stations are inevitable. Other interesting paper on machine learning approach in orange fruit grading using close range photogrammetry. Intensive fruit or vegetable sorting is a common mission in productive regions. In order to meet the market standards, it is produced according to quality levels that depend on maturity, weight, size, density, skin defects and others. There are papers on integration of lidar and pleiades data in identifying the potential of hazardous trees and quality assessment of 3D point clouds on the different surface materials generated from iphone LiDAR sensor. The advancement in remote sensing technology provides users with alternative ways to identify the hazardous trees and is very efficient especially in large areas. Terrestrial Laser Scanning (TLS) is a powerful device that can capture 3D reality faster than ever before. The other research paper on estimation diameter of buried pipe using principle of ground penetrating radar & electromagnetic locator. A comprehensive utility map presents a complete information for users to interpret and extract the information. Its importance for underground utility database to support future infrastructure planning.

From the pandemic COVID-19 to economic issues, the world is currently facing a lot of challenges this year. We need to adapt to the new norm. Geospatial. Its innovative tools. Advanced technologies. We had seen the increasing implementation of both in solving various real-life challenges.