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Impervious surface detection using very high spatial resolution satellite data

Ebrahim Taherzadeh Mobarakeh
Ground Data Solutions R&D Sdn Bhd, Malaysia

Satellite remote sensing data is considered as very important source of information and tool for data analysis and visualization. The detection of impervious surface (IS) in heterogeneous urban areas is one of the most challenging tasks in urban remote sensing. With the advent of very high spatial resolution such as Worldview-2(WV2), we are able to utilize high spatial and spectral information which is inherent in this type of image. This presentation investigates how this satellite data is currently being used to better detect and discriminate IS. In this presentation, we will present mainly two case studies, one on road and another on roof materials. In detail, development of spectral index to extract road network automatically and generic model extraction for detection roof materials using WV2 satellite imagery will be discussed and addressed.

Biography

Ebrahim Taherzadeh Mobarakeh received his PhD degree on Spatial Information Engineering from University Putra Malaysia in 2014. His PhD thesis was focused on the development of generic models to extract the roof materials using high spatial resolution satellite imagery. Currently, he works as Remote Sensing Specialist at Ground Data Solutions R&D Sdn Bhd, a Malaysian LiDAR survey and mapping service provider. His major research effort includes urban remote sensing using high-resolution data, hyperspectral and LiDAR data. He has published around 10 technical papers in these areas in international conferences and journals.

ebrahim.taherzadeh@yahoo.com

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Page 68