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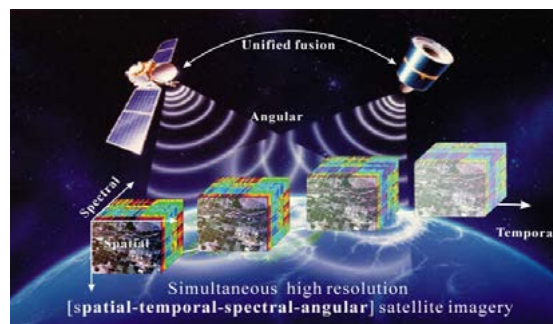
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Unified satellite image fusion for sustainable urban environment

The recent decades have witnessed the launch of a large number of orbiting satellite sensors with different spatial, temporal, spectral and angular (STSA) characteristics, resulting in dramatic improvements in the ability to acquire images of the earth surface and a boom in remote sensing (RS) applications in environmental, ecological and disaster monitoring. However, current RS technology cannot meet the requirement of monitoring dense and dynamic urban environments with complex structures and changes that require high spatial detail, frequent coverage, fine spectral resolution and multi-angle observation. This is largely due to the fact that there is no satellite sensor that can achieve simultaneously high STSA resolution. Unified satellite image fusion aims to circumvent this obstacle by achieving high resolution with respect to all the image properties for a virtual satellite sensor. The generated high STSA resolution imagery can greatly contribute to the exploration and improvement of existing satellite image resources for urban environmental applications by detecting more details in a more accurate manner. This presentation will introduce to you the speaker's endeavors along this line of research, including both the methodologies and applications in environmental and land use monitoring.



Biography

Bo Huang is a Professor in Department of Geography and Resource Management at Chinese University of Hong Kong. He is also an Associate Director at Institute of Space and Earth Information Science and the Director of MSc Program in Geo-information Science at Chinese University of Hong Kong. He completed his Changjiang Scholar Chair Professorship. His research interest includes Geographical Information Science and he has published his articles extensively in this field including over 100 refereed international journal articles. He is currently an Asia-Pacific Editor of *International Journal of Geographical Information Science*.

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