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Evaluation of pan-sharpened image for human settlements mapping: A Case of South East Asia Cities

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Mapping the human settlements is essential for urban planning, disaster management and emergency preparedness and other humanitarian assistances. Effective disaster preparedness requires quantitative spatial distribution patterns of population in order to position emergency response centers and prepare food and shelter in the event of disaster. Mapping the human settlements from remote sensing data is cost effective and timely manners which is suitable for disaster management. This study reports the evaluation of human settlements mapping result using pan-sharpened image in order to improve the spatial and spectral properties of original low resolution remote sensing data.

Keywords: Pan-sharpened image, human settlements, South East Asia cities