

Hybrid image processing - 1-2 April 1986, Orlando, Florida

SPIE--International Society for Optical Engineering - Dr. Andrew G. Tescher Profile

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A cost analysis of sewage sludge composting for small and mid

This study will focus on estimating the two-dimensional location parameters i. The novelty of this technique lies in its unique capability to adaptively vary the characteristics of the spectral decorrelation transformation based upon variations in the local terrain.

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The proposed spectral unmixing procedure was implemented in C and has been successfully applied to test imagery from various platforms including LANDSAT 5 MSS 79 m GSD and NOAA's AVHRR 1.

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As such, it could solely render some useful information not readily detectable from the ensemble of spectral images. The first one is to perform image processing prior to encoding, so as to improve the compression-quality trade off in the subsequent MPEG2 coder. The interpartition spectral correlation is removed using a second-stage KLT applied to the resulting top few sets of equilevel principal component PC images.

Hybrid image processing (1986 edition)

The evaluation is based on the measured amount of compression-induced root mean square error in the reconstructed imagery and, more importantly, the impact of compression on the classification of imagery data. Since these lower eigen planes are coded via the subsequent JPEG compression module at a much lower bit rate, the fidelity of these small objects will be severely impacted by the compression-induced error.

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Preliminary results, based on the selected test imagery and the selected multispectral bandwidth compression scheme, indicate that the JPEG 2000

generally outperforms the baseline JPEG by a small margin. The region of interest ROI coding feature of JPEG 2000 image compression standard is extended to multispectral imagery.

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The spectral and spatial modularity of the algorithm architecture allows the JPEG to be replaced by a totally different coder e. A windrow composting facility is cheaper to build and operate than ASP and HASB composting facilities.

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