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

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

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-
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Wildlife refuges -- Law and legislation -- Louisiana.
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Wildlife conservation -- Law and legislation -- United States.
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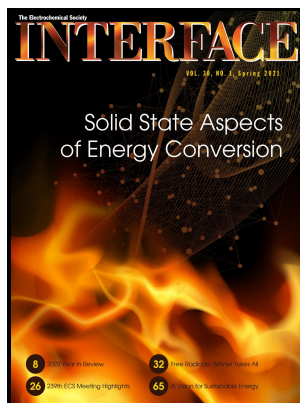Image processing -- Congresses.Hybrid image processing - 1-2 April 1986, Orlando, Florida
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Dr. Andrew G. Tescher Profile

The number of unique signatures found will depend on the desired spectral angle separation, irrespective of their frequency of occurrence. Attention is given to multisensor data fusion for multitarget tracking, fast digital phase detection using SAWs, miniature hybrid optical correlators, shape representations by Gabor expansion, and a digital optoelectronic computer for textual pattern matching. An overview of a robust and implementable compression algorithm previously developed for multispectral imagery is given.

Hybrid image processing (1986 edition)

Coding errors are spread over entire individual data blocks after reconstruction because the coding is done in the transform domain. Since the background image is highly textured, it suffices to code only the local statistics rather than the actual pixels themselves. Corpus ID: 58160679 Hybrid image processing; Proceedings of the Meeting, Orlando, FL, Apr.

Hybrid image processing (1986 edition)

Direct application of a single KLT across the entire set of hyperspectal imagery may not be computationally practical. Various system considerations as well as potential compression options are also presented.

Hybrid image processing; Proceedings of the Meeting, Orlando, FL, Apr. 1, 2, 1986 (Book)

The loss of the spectral fidelity, as measured by the deviation from the original correlation coefficient matrix, is very insignificant regardless of the image nd the coding bit rate.

OCLC Classify

The resulting spectrally-decorrelated eigen images are then compressed using the JPEG algorithm. Attention is given to tradeoffs in nonlinearly recorded matched filters, miniature spatial light modulators, detection and classification using higher-order statistics of optical matched filters, rapid traversal of an image data base using binary synthetic discriminant filters, wideband signal processing for emitter location, an acoustooptic processor for autonomous SAR guidance, and sampling of Fresnel transforms. A joint classification-compression scheme that provides the user with added capability to prioritize features of interest in the compression process is proposed.

Hybrid image processing (1986 edition)

The images are spectrally decorrelated via the KLT to produce the eigen images. Attention is given to multiple optical filter design simulation results, acoustooptic image correlators, texture classification using the Hough transform, iteratively designed optical correlation filters for distortion invariant recognition, and an instrument-induced spatial crosstalk…. The interpartition spectral correlation is removed using a second-stage KLT applied to the resulting top few sets of equilevel principal component PC images.

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