

Proyecto MICINN - hiperespectrales

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Publicaciones revistas 2011

- **"Endmember induction by Lattice Associative Memories and Multi-Objective Genetic Algorithms."** Manuel Graña and Miguel A. Veganzones. *EURASIP Journal on Advances in Signal Processing* (in press).
- **"A spectral/spatial CBIR system for hyperspectral images."** Miguel A. Veganzones and Manuel Graña. *IEEE Journal of Selected Topics in Earth Observations and Remote Sensing* (in press).
- **"An endmember-based semimetric for content based hyperspectral image retrieval."** Manuel Graña, Miguel A. Veganzones. *Pattern Recognition* (submitted).

Publicaciones conferencias 2011

- **"On the validation of a spectral/spatial CBIR system for hyperspectral images."** Miguel A. Veganzones, Manuel Graña. *Proceedings of the 3rd Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (IEEE-WHISPERS 2011).*
- **"Validation of a Hyperspectral Content-Based Information Retrieval (RS-CBIR) System upon scarce data."** Miguel A. Veganzones, Manuel Graña. *Proceedings of the International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2011).*
- **"A novel data compression technique for remote sensing data mining."** Avid Román-González, Miguel A. Veganzones, Manuel Graña, Mihai Datcu. *Proceedings of the ESA-EUSC-JRC 2011.*
- **"Validation of remote sensing content-based information retrieval (RS-CBIR) systems upon scarce data."** Miguel

Publicaciones revistas 2012

- **“Multivalued morphology by lattice auto-associative memories: applications to hyperspectral morphology.”**
Miguel A. Veganzones, Manuel Graña.
- **“Relevance feedback for hyperspectral CBIR by dissimilarity spaces.”** Miguel A. Veganzones, Mihai Datcu, Manuel Graña.
- **“Remote sensing CBIR validation without a-priori knowledge.”** Miguel A. Veganzones, Mihai Datcu, Manuel Graña.

Publicaciones conferencias 2012

- **"Dictionary based hyperspectral image retrieval."** Miguel A. Veganzones, Mihai Datcu, Manuel Graña. *1st International Conference on Pattern Recognition Applications and Methods. Special session on Pattern Recognition Applications in Remotely Sensed Hyperspectral Image Analysis*. Algarve, Portugal. February 6-8, 2012.
- **"Hybrid computational methods for hyperspectral image analysis."** Miguel A. Veganzones, Manuel Graña. *7th International Conference on Hybrid Artificial Intelligence Systems. Special session on Hybrid Computational Intelligence and Lattice Computing for Image and Signal Processing*. Salamanca, Spain. March 28-30, 2012.
- Otras conferencias a las que consideramos enviar artículo o proponer sesión especial:
 - 4th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing (IEEE-WHISPERS 2012).

Otras consideraciones 2012

- Defensa tesis doctoral.

Posibles contribuciones

- Tesis doctoral.
- Sistemas CBIR y relevance feedback.
 - Linear unmixing.
 - Espacios de disimilitud.
 - Validación.
- Morfología.
- Clasificación.