

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)*.

Publicaciones conferencias 2011 (cont.)

- "**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 A. Veganzones, Manuel Graña. *Proceedings of the ESA-EUSC-JRC 2011*.

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.

Publicaciones conferencias 2012 (cont.)

- 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).
 - 16th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES 2012).

Otras consideraciones 2012

- Defensa tesis doctoral.

Posibles contribuciones

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