CALL FOR PAPERS

The 7th Workshop on Computational Topology in Image Context CTIC2019 will be held in Malaga, Spain on January 24-25, 2019. The general aim of CTIC workshops is to gather researchers dealing with the study of topological invariants and features from the computational point of view, and/or who want to use topological information in image engineering applications.

Topics

- Topological features and invariants and their computation for digital images.
- Representations and compression of nD images based on topology
- Hierarchical approaches for images based on topology
- Image segmentation under topological constraints
- Parallel processing based on topology in multi-dimensional volume context
- Topology computation in parallel in multi-dimensional volume context
- Topological optimization for digital images
- Topological algorithms for image processing
- Topological transforms for digital images
- Topological recognition of digital images
- Experimental evaluation of heuristics based on topology in image processing
- Applications of computational topology in biomedical imagery.
- Use of topological information in image engineering applications.
- Machine learning using topological features
- Topology in biomedical imaging

The proceedings with accepted full papers will be published in the Springer's LNCS series. The authors of accepted talks are invited to submit extended versions of their work to the special issue "Topological Analysis and Recognition" of the journal Pattern Recognition Letters.

Organising Committee

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Fernando Díaz del Río University of Sevilla, Spain

http://www.ctic2019.uma.es