



# Imagen-A

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Daniel Díaz-Pernil, Irene Fondón,  
Rocío González Díaz and María José Jiménez (guest eds.)



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DGCI 2013 Demo Session  
7th IAPR International Conference on  
Discrete Geometry for Computer Imagery

Daniel Díaz-Pernil, Irene Fondón,  
Rocío González-Díaz and María José Jiménez (eds.)

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# Preface

This collection documents the contributions presented at the DGCI2013 demonstration session. The purpose of this session is to provide the opportunity to present and share effective applications related to the main topics of DGCI. Authors of DGCI2013 accepted papers were highly encouraged to participate showing their software to effectively reproduce their results. However, demonstrations were not limited to papers accepted to be presented at DGCI2013 conference and can also be done from works that were presented on past conferences or others venues. Moreover new development tools/libraries that are planned to be used in future research were also presented in this demonstration session. The only selection criteria relied on the fact that the subject of the demonstration were relevant to topics of Discrete Geometry:

- Models for Discrete Geometry (grids, discrete objects, discrete model properties, digitization schemes, metrics,...)
- Discrete and Combinatorial Topology
- Geometric Transforms (image mappings, distance transformation, skeletons and medial axis,...)
- Discrete Shape Representation, Recognition and Analysis
- Discrete Tomography
- Morphological Analysis
- Discrete Modelling and Visualization
- Discrete and Combinatorial Tools for Image Segmentation and Analysis

DGCI 2013 has been supported by the International Association of Pattern Recognition (IAPR) and is the main event associated with the Technical Committee on Discrete Geometry IAPR-TC18. This conference could not have been organized without our sponsoring institutions: University of Seville (Vice-rectorate for Research, Vice-rectorate of Internationalization, the Mathematics Institute (IMUS), the Research and Teaching Foundation FIDETIA, Applied Math-I Department), Spanish Ministry of Economy and Competitiveness (Project MTM2012-32706) and European Science Foundation (ACAT program). We are also grateful to the School of Computer Engineering at the University of Seville, for hosting this event and providing all the necessary facilities.

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Maria-Jose Jiménez  
Seville, March 2013



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Rocío González-Díaz  
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