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# Advances in Geometric Modeling and Processing

6th International Conference, GMP 2010  
Castro Urdiales, Spain, June 16-18, 2010  
Proceedings

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# Preface

This volume contains the papers presented at 6th Conference on Geometric Modeling and Processing (GMP 2010) held in Castro Urdiales, Spain during June 16–18, 2010. Geometric Modeling and Processing is a biannual international conference series on geometric modeling, simulation and computing. Previously, GMP has been held in Hong Kong (2000), Saitama, Japan (2002), Beijing, China (2004), Pittsburgh, USA (2006) and Hangzhou, China (2008).

GMP 2010 received a total of 30 submissions that were reviewed by three to four Program Committee members on average. While the number of submissions dropped significantly from previous years, the quality did not and was still quite high overall. Based on the reviews received, the committee decided to accept 20 papers for inclusion in the proceedings. Additionally, extended versions of selected papers were considered for a special issue of *Computer-Aided Design (CAD)* and *Computer-Aided Geometric Design (CAGD)*. The paper topics spanned a wide variety and include:

- Solutions of transcendental equations
- Volume parameterization
- Smooth curves and surfaces
- Isogeometric analysis
- Implicit surfaces
- Computational geometry

Many people helped make this conference happen and we are grateful for their help. We would especially like to thank the Conference Chair, all of the authors who submitted papers, the Program Committee members who reviewed the papers and all of the participants at the conference.

Bernard Mourrain  
Scott Schaefer  
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