

# SGP 2006

Symposium on Geometry Processing 2006

**Fourth Eurographics Symposium on Geometry Processing**

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**June 26 – 28, 2006**



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## Preface

Geometry Processing is an emerging research field at the intersection of computer graphics, numerical computation and applied geometry. This book contains the research papers presented at the fourth Eurographics/ACM Symposium on Geometry Processing (SGP), held in Cagliari, Sardinia, June 26 to 28, 2006. SGP is the premier venue for disseminating cutting-edge research ideas and results in Geometry Processing. The research papers included in the book address diverse topics in Geometry Processing, including: surface reconstruction, model analysis and matching, computational geometry, surface fitting, remeshing, subdivision surfaces, and mesh editing.

This volume consists of 21 full research papers selected from a total of 79 submissions, plus a set of 5 short papers. All accepted submissions were reviewed by at least four reviewers, and at least two of them members of the program committee. Additionally, this year we introduced a virtual committee meeting with an online discussion among the program committee members.

In addition to the technical paper presentations the conference had two invited speakers, Markus Gross (ETH Zürich) and Ron Kimmel (Technion). We also held an industry panel discussion with representatives of major computer graphics companies, Richard Huddy (ATI), Olivier Paugam (mental images), Arnaud Ribadeau Dumas (Dassault Systèmes) and Rasmus Tamstorf (Walt Disney Feature Animation). This industry panel was a novel conference feature. It was introduced in response to participant feedback at SGP 2005 requesting a discussion platform on the most challenging research problems in industrial applications.

The success of the event relied on numerous helping hands of many friends and colleagues. First of all we wish to thank the wonderful management in Sardinia headed by the local organizers Riccardo Scateni and Roberto Scopigno. We are grateful to the many insights, tips, and helpful comments from the previous chairs, including Leif Kobbelt, Hugues Hoppe, Peter Schröder, Mathieu Desbrun, and Helmut Pottmann. Our special thanks go to Cici Koenig for the design of the conference logo and advertising material. We are indebted to Stephan Bischoff for his tremendous job running the online review management system and his invaluable support during the whole production of this volume. We also thank Stefanie Behnke and Dieter Fellner for production of these proceedings.

We greatly appreciate the contribution from the conference sponsors and would like to thank Microsoft Research, mental images, and IBM Research for their ongoing and continuous support of this symposium. We hope the research work and the novel results presented in this book will stimulate and initiate many more research activities. As paper chairs we had enjoyed collecting the state-of-the-art contributions of all authors into this volume, and we hope you as a reader will enjoy this volume too.

Konrad Polthier and Alla Sheffer

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