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Preface

Geometric Modeling and Processing (GMP) is a biennial international conference on geometric modeling, simulation and computing, which provides researchers and practitioners with a forum for exchanging new ideas, discussing new applications, and presenting new solutions. Previous GMP conferences were held in Pittsburgh (2006), Beijing (2004), Tokyo (2002), and Hong Kong (2000). This, the 5th GMP conference, was held in Hangzhou, one of the most beautiful cities in China.

GMP 2008 received 113 paper submissions, covering a wide spectrum of geometric modeling and processing, such as curves and surfaces, digital geometry processing, geometric feature modeling and recognition, geometric constraint solving, geometric optimization, multiresolution modeling, and applications in computer vision, image processing, scientific visualization, robotics and reverse engineering. Each paper was reviewed by at least three members of the program committee and external reviewers. Based on the recommendations of the reviewers, 34 regular papers were selected for oral presentation, and 17 short papers were selected for poster presentation. All selected papers are included in these proceedings.

We thank all authors, external reviewers and program committee members for their great effort and contributions, which made this conference a success. We thank the conference chairs Ron Goldman and Guozhao Wang, and the steering committee members Shimin Hu, Myung-Soo Kim, Ralph Martin, Helmut Pottmann, Kenji Shimada, Hiromasa Suzuki and Wenping Wang for their consistent advice and help. Very special thanks go to the local organizer, Ligang Liu, for his hard work in organizing the conference and in managing the online review system. Very special thanks also go to Ms. Bayer, who collected the final versions of the papers. We thank the Natural Science Foundation of China and the National Key Basic Research Program of China (Project number 2004CB318000) for their financial support. We thank Zhejiang University for hosting the conference. The Activity Group on Geometric Design and Computing of the Chinese Society of Industrial and Applied Mathematics provided valuable support to the conference. Finally, we thank all of the participants for making this conference a success.

February 2008

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