



Foreword to Shape Modeling International 2012

The Shape Modeling International (SMI) conference series was started by Tosiyasu L. Kunii and was initially hosted in Japan (1997 and 1999). Its objective was to provide an international forum for discussing new theories, techniques, and applications of shape modeling, i.e., the set of computational techniques for modeling and processing digital representations of shapes and their properties.

In 2001, SMI merged with the Eurographics/ACM SIGGRAPH Workshop on implicit surfaces and became a regular annual event alternating among Asia, Europe, and America. SMI was hosted in Italy (2001), Canada (2002), South Korea (2003), Italy (2004), USA (2005), Japan (2006), France (2007), USA (2008), China (2009), France (2010), and Israel (2011). This year (2012) the Shape Modeling International conference returned to the USA and was held on the campus of Texas A&M University in College Station, TX. SMI'12 was supported by ACM SIGGRAPH and the College of Architecture at Texas A&M University.

This year all of the accepted papers at SMI'12 appeared in a special issue of the journal Computers and Graphics (Elsevier) containing both long and short papers. SMI'12 received a total of 58 valid submissions from various countries including Australia, Austria, Canada, China, Denmark, France, Germany, Iran, Israel, Italy, Japan, Romania, South Korea, Turkey, and the USA. Of these submissions 20 papers were accepted as full papers for an acceptance rate of 34%. In addition, 11 papers were accepted as short papers. Each paper received at least three reviews from members of the Technical Papers Committee and underwent a two-stage review process. SMI'12 also hosted keynote talks by Helmut Pottmann (KAUST/Vienna University of Technology), Greg N. Frederickson (Purdue), and Carlo H. Séquin (Berkeley).

The SMI chairs wish to acknowledge the support of Joaquim Jorge, Editor-in-Chief of Computers and Graphics, as well as the conference chairs Ergun Akleman and John Keyser for their hard work in making this event successful. We would also like to thank all of the members of the Technical Papers Committee for their hard work in terms of reviewing papers.



Scott Schaefer is an Assistant Professor of Computer Science at Texas A&M University. He received a bachelor's degree in Computer Science/Mathematics from Trinity University in 2000 and an M.S. and Ph.D. in Computer Science from Rice University in 2003 and 2006 respectively. His research interests include geometry processing, curve and surface representations and barycentric coordinates. Scott received the Günter Enderle Award in 2011 and an NSF CAREER Award in 2012.



John C. Hart is a Professor in the Department of Computer Science at the University of Illinois, Urbana-Champaign, where he studies computer graphics. His work high performance graphics and shape modeling have been supported by Adobe, Intel, Microsoft, NAVTEQ, NVIDIA and the NSF. He is a past Editor-in-Chief of ACM Transactions on Graphics, a co-author of "Real-Time Shading," a contributing author for "Texturing and Modeling: A Procedural Approach" and an executive producer of the documentary "The Story of Computer Graphics." He received his B.S. from Aurora University in 1987, and a Ph.D. in 1991 from the Electronic Visualization Laboratory at the University of Illinois at Chicago.

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5 April 2012