

Editorial: Special issue on geometric modeling (Dagstuhl 2008)

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The 7th Dagstuhl seminar on Geometric Modeling was held in May 2008 at the Leibniz-Zentrum für Informatik at Schloss Dagstuhl in Germany. The participants came from 4 continents and 19 countries. There were a total of 46 technical presentations. The seminar was also the setting for the John Gregory Award. The award, named after a pioneer of the field, honored the long-term innovative contributions to field of Hartmut Prautzsch, Helmut Pottmann and Tom Sederberg.

The seminar succeeded in bringing together leading researchers to present and discuss radically different approaches to the challenge of modeling complex geometric phenomena on the computer. Acquisition, representation and analysis of 3-dimensional geometry call for the combination of technically complex and often

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interdisciplinary approaches that are grounded both in classical mathematics and computer science data structures and theory. Reflecting the dynamics of the field, the meeting included a number of junior researchers. The presentations ranged from the application of graphics processing units, to graph techniques, to algebraic approaches, discrete geometry, combining classical spline with new subdivision methods and leveraging the geometry of classical surfaces in areas as far as architecture and medical modeling.

The present special issue of Computing contains 13 revised papers corresponding to presentations at the conference, spanning various areas of Geometric Modeling.

The organizers would like to thank the team of Schloss Dagstuhl for helping to make this workshop a success.

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