

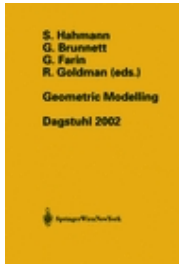
## Geometric Modelling

Dagstuhl 2002

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## Editorial

Geometric Modeling is the branch of Computer Science concerned with the efficient representation, manipulation, and analysis of geometry on a computer. The origin of this discipline is curve and surface design for CAD/CAM systems. Today, Geometric Modeling is a well established field with a wide range of applications, including computer graphics, scientific visualization, virtual reality, simulation, and medical imaging, and it attracts researchers with backgrounds in computer science as well as mathematics and engineering.

The present book contains selected papers that were presented at the 5th Dagstuhl seminar on Geometric Modeling May 2002. The seminar was attended by 51 participants. The participants came from 3 continents and 13 countries, and included 6 industrial scientists as well as the leading academic experts in the field. A very special event during the conference was the award ceremony for the John Gregory Memorial award. This time Prof. Hans Hagen, Prof. Gerald Farin, Prof. Joseph Hoschek, and Prof. Tom Lyche were the recipients of the award in recognition of their fundamental contributions to the field of geometric modeling. There were a total of 42 technical presentations at the conference related to the following diverse topics:

- curve and surface modeling
- non-manifold modeling in CAD
- multiresolution analysis of complex geometric models
- surface reconstruction
- variational Design
- computational geometry of curves and surfaces
- 3D meshing

- geometric modeling for scientific visualization
- geometric models for Biomedical application

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

Grenoble, Chemnitz, Tempe, Houston  
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