

2022 Symposium on Solid and Physical Modeling (SPM-2022)

June 27-29, 2022 – Singapore (A Virtual Event)

The Symposium on Solid and Physical Modeling (SPM) is an international conference series organised annually with the support of the Solid Modeling Association (SMA). The conference aims at all aspects of geometric and physical modeling, and their application in design, analysis and manufacturing, as well as in biomedical, geophysical, digital entertainment, and other areas. The conference serves also as a ceremony for awarding the 2022 Pierre Bézier Prize for contributions to solid, shape, and physical modeling. Due to global pandemic, SPM 2022 will be held as an online event. Topics of interest include, but are not limited to:

- ✦ 3D fabrication/printing/manufacturing technologies
- ✦ Anisotropic/heterogeneous/composite materials
- ✦ Applied algebraic and differential geometry
- ✦ Applied computational geometry and topology
- ✦ Blend, sweep, offset, Minkowski, and other operations
- ✦ Computational fabrication
- ✦ Constraint modeling & satisfaction
- ✦ Curve, surface, and manifold modeling
- ✦ Data fitting and approximation
- ✦ Design, analysis, simulation, automation and optimization
- ✦ Dimensioning & tolerancing
- ✦ Feature modeling, recognition, and understanding
- ✦ Function and assembly modeling
- ✦ Geometry compression
- ✦ Geometric and topological representations
- ✦ Geometric modeling and processing
- ✦ Isogeometric and finite element analysis
- ✦ Meshing and mesh optimization
- ✦ Manufacturing and assembly planning
- ✦ Mesh processing
- ✦ Model validation and repair
- ✦ Multi-resolution techniques
- ✦ Numerical analysis of geometric algorithms
- ✦ Parametric and feature-based models and representations
- ✦ Physically-based concepts for shape modeling
- ✦ Reverse engineering, model reconstruction from samples
- ✦ Robustness and validity of geometric computations
- ✦ Shape modeling, synthesis, and analysis

Paper Submissions: Accepted full-length papers will be published in the journal of [Computer-Aided Design](#) (Elsevier) after a rigorous two-stage double-blind review process. Papers should be formatted according to the style guidelines for Computer-Aided Design and should not exceed 12 pages, including figures and references. We strongly recommend using the [LaTeX template](#) to format your paper, but we also accept papers formatted by MS Word according to the style guidelines for Computer-Aided Design (Elsevier). The file must be submitted in PDF format using the EasyChair website <https://easychair.org/conferences/?conf=spm20220>.

Important Dates:

February 4, 2022	Abstracts for full papers
February 10, 2022	Full paper submission
March 25, 2022	First review notification
April 15, 2022	Revised papers due
April 29, 2022	Final notification
May 16, 2022	Camera-ready papers
June 27-29, 2022	Conference (SPM-2022)

Conference Homepage: <https://spm2022.sciencesconf.org/>

Contact: spm2022@sciencesconf.org

Conference Chairs

Konrad Polthier, Freie Universität Berlin, Germany
 Myung-Soo Kim, Seoul National University, Korea
 Ying He, Nanyang Technological University, Singapore

Program Chairs

Georges-Pierre Bonneau, University of Grenoble, France
 Morad Behandish, Palo Alto Research Center, USA
 Jianmin Zheng, Nanyang Technological University, Singapore

