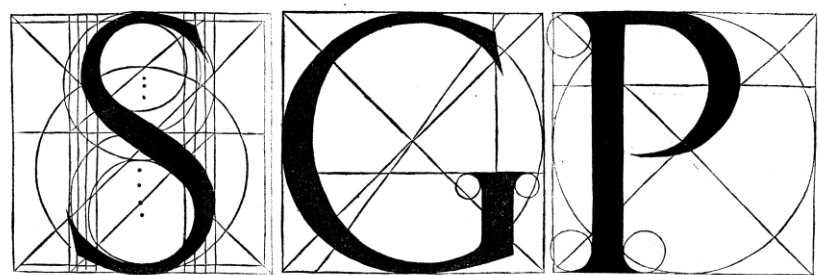


Symposium on Geometry Processing 2019

Milan, 8-10 July 2019

<http://sgp2019.di.unimi.it/>



The Eurographics Symposium on Geometry Processing (SGP) is the premier venue for disseminating new research ideas and cutting-edge results in Geometry Processing.

In this research area, concepts from mathematics, computer science, and engineering are studied and applied to offer new insights and design efficient algorithms for acquisition, modeling, analysis, manipulation, simulation and other types of processing of 3D models and shape collections.

GRADUATE SCHOOL

Following the tradition of SGP, the co-located Graduate School on Geometry Processing features several lectures in various topics in the field, held by world-class experts and lead researchers in the respective discipline.

The School is addressed to PhD students and other postgraduate students. The school will be held the 6 and 7 July 2019.

AWARDS & RECOGNITIONS

SGP attributes three awards yearly:

Best Paper Award, to authors of seminal work on Geometry Processing and its applications, presented at SGP.

Outstanding Software Project Award, to authors of software tools to push the research on Geometry Processing forward, and to reproduce existing results.

Dataset Award, to authors of top-quality datasets and benchmarks provided to the community of Geometry Processing as testbeds for present and future algorithms.

TOPICS

- ✓ 3D acquisition and reconstruction
- ✓ Analysis and design for fabrication
- ✓ Architectural and industrial geometry
- ✓ Computational geometric design
- ✓ Computer-aided design & manufacturing
- ✓ Discrete differential geometry
- ✓ Exploration of shape collections
- ✓ Geometry and topology representations
- ✓ Geometry compression
- ✓ Geometric data sorting, clustering, and visualization
- ✓ Geometry processing applications
- ✓ Interactive techniques for shape design and editing
- ✓ Isogeometric analysis
- ✓ Machine learning in geometry
- ✓ Mesh editing and deformation
- ✓ Meshing and remeshing
- ✓ Multiresolution modeling and subdivision meshes
- ✓ Multimodal shape processing
- ✓ Procedural geometric modeling
- ✓ Processing of big geometric datasets
- ✓ Shape analysis and synthesis
- ✓ Simulation and animation
- ✓ Smoothing and denoising
- ✓ Surface and volume parameterization

PROCEEDINGS

The proceedings of SGP 2019 are published as issue 5, vol 38 of **Computer Graphics Forum**, the leading international journal for in-depth scientific articles on Computer Graphics.

They are indexed by all main academic databases. The electronic version can be found online at the **ACM Digital Library** and at the **Wiley Online Library**.

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