



<https://smiconf.github.io/2022/sculpt.html>

SMI-SCULPT 2022 will be organized as a teleconference due to the coronavirus outbreak. The conference program will be exactly the same as in previous years; it will include paper presentations, keynote talks, and several workshops but everything will be done using remote conferencing services. All attendees will participate in the conference remotely with video/audio and slide sharing; there will be no on-site participation.

Call for Papers

<https://easychair.org/cfp/SMI-SCULPT2022>

The SCULPT track: "Shape Creation Using Layouts, Programs, & Technology" is the successor of the former FASE track (Fabrication and Sculpting Event) at SMI. SCULPT is focused on original research on the theory and practice of shape design, sculpting, and architecture, including the physical realization of the envisioned shapes via modeling, construction, fabrication, or manufacturing. The presented work should have a clear algorithmic or mathematical basis, and it may also address the inverse process of obtaining a clean CAD model from a given physical artifact.

Topics

SCULPT solicits papers that pose new questions and motivate further research in designing, fabrication, and sculpting. Topics should be useful, for example, in the following areas: (1) Fabrication of digital models, (2) Advanced manufacturing techniques such as additive manufacturing, laser cutting or CNC milling, (3) Interactive or procedural design of manufacturable shapes, (4) Interconnections of complex modeling and fabrication processes, (5) Visually stimulating fabrication techniques or printed structures.

Submissions

All SCULPT paper submissions will be handled via the easy-chair system following a one-stage peer review cycle. Accepted SCULPT papers will be published in a special issue of the Hyperseeing magazine. SCULPT paper presentations will be 15 minutes in length. They will be presented in a special SCULPT session at the SMI 2022. Accepted papers and posters must be presented in person by registering for the SMI conference.

Location

SMI-SCULPT 2022 will be co-located with the Shape Modeling International (SMI 2022) and organized as an event of Shape Modeling International conference (SMI 2022).

Submission Guidelines

All papers must be original and not simultaneously submitted to another journal or conference. The following paper categories are welcome:

Full papers describing methods in detail with a limit of 16 pages.

Short papers describing methods in less detail with a limit of 8 pages.

Posters describing methods in much less detail with a limit of 4 pages.

For the submission, please use The Bridges Formatting Guidelines

Important Dates

April 22, 2022 :: Abstract Submission Due

April 25, 2022 :: Full Paper Submission Due

May, 23, 2022 :: Acceptance Notification

June 6, 2022 :: Camera Ready Papers Due

June 27-29, 2022 :: Online Event

SCULPT Technical Paper Chairs

Oleg Fryazinov

Matias del Campo

Carlo Séquin

SCULPT Steering Committee

Ergun Akleman, Loic Barthe, Karina Rodriguez Echavarria, Oleg Fryazinov, Guiseppe Patane, Konrad Polthier, Carlo Sequin