

Preface: Fabrication and Sculpting Event 2019

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For this year's Fabrication and Sculpting Event, we solicited papers that pose new questions and motivate further research in designing, fabrication and sculpting. Topics should be useful, for example, in the following areas: fabrication of digital models; advanced manufacturing techniques such as additive manufacturing, laser cutting or CNC milling; interactive or procedural design of manufacturable shapes; interconnections of complex modeling and fabrication processes; and visually stimulating fabrication techniques or printed structures.

Thus, the scope of FASE is at the intersection of shape modeling and fabrication methods/algorithms, and papers may focus on both the digital/theoretical and the physical domain or just one of these domains – as long as the connection to the other domain is clear. It is not a requirement that the techniques presented in the paper involve computation as such, but they need to have a clear algorithmic or mathematical element.



We received nine submissions this year. Three of them were accepted as long full papers (max. 16 pages) and two were accepted as short papers (max. 8 pages). The full and short papers will be presented on Friday, June 21st between 10:20-12:05 in SMI&FASE Session at Joseph & Rosalie Segal Centre 1400-1410. The five accepted papers span a wide range of topics and views on the fabrication process of various artistically interesting artifacts. They include papers on design of shapes, including methods for designing complex star-cinder sculptures, bead sculptures which model many microscopic molecular structures faithfully, and symmetrical models of mathematical knots. Fabrication papers focus on the design and fabrication of data-drive anamorphic sculpture, decorative knots and fluids simulations.

Furthermore, three submissions were accepted as Posters and they will be presented and exhibited at IGS poster session Wednesday, June 19th between 14:30-15:30 in IGS Poster Fast Forward and Public Display at Djavad Lobby.

We wish to thank the program committee members and authors for their participation in the SMA/ISAMA 2019 Fabrication and Sculpting Event. We hope that new ideas and partnerships will emerge from the FASE papers that can offer a glimpse into a much larger territory and the event can enrich interdisciplinary research in Shape Modeling. We also hope that the attendees of SMI 2019 enjoy this event of the conference.