



ESPCI
Laboratoire PMMH
10 rue Vauquelin, 75231 Paris Cedex 05



Séminaire PMMH

Salle de réunion du PMMH, Campus Jussieu, Bâtiment Cassan A, 1^{er} étage

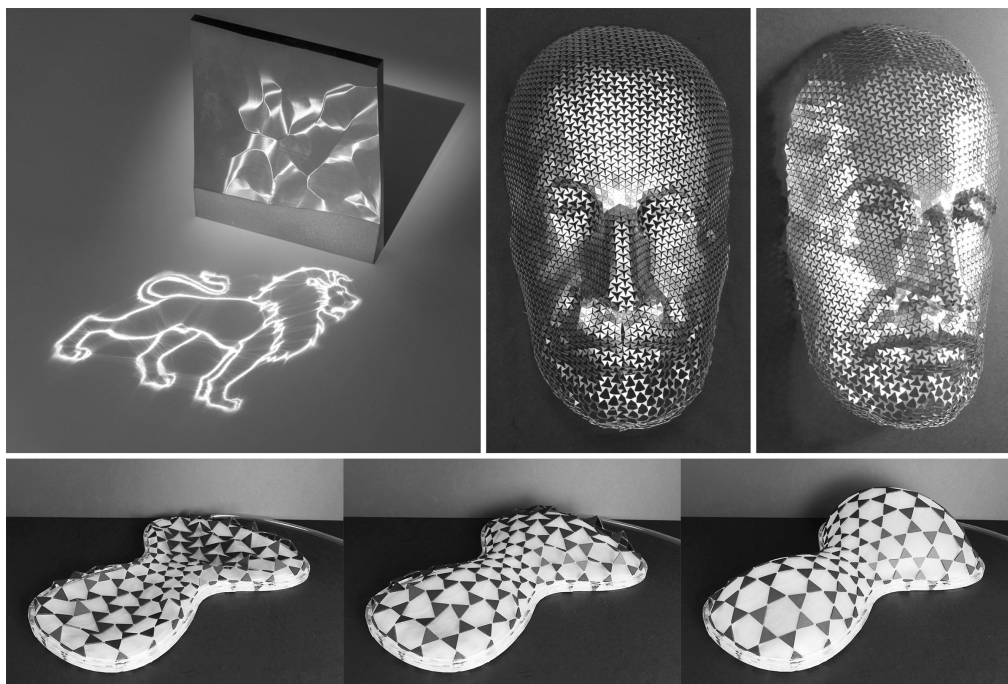
Vendredi 9 novembre 2018, 11h00-12h00

Mark Pauly

EPFL, Lausanne, Suisse

Light, Matter, Form - Computational Design of Functional Geometry

In this talk, I will outline a general computational approach for material-aware design of complex 3D models. The key step is to identify suitable geometric abstractions of physical properties that enable effective computations with high predictive accuracy. I will show several examples of this approach for interactive design with inextensible and auxetic materials, and for performative optimization of light re-directing surfaces. These studies illustrate how to leverage geometric insights, mathematical theory, and advanced algorithms to build effective computational tools for material-aware design of performative geometry.



Prochain séminaire : vendredi 16 novembre 2018, Lucio Isa (ETH, Zürich)

Programme des séminaires : www.pmmh.espci.fr, onglet *Séminaires PMMH*

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