

WORKSHOP

3 December 2015,

Politecnico di Torino,
Dipartimento di Scienze Matematiche,
AULA BUZANO

Computational Origami Art

Jun Mitani, professor at the University of Tsukuba (Dept. of Computer Science), Japan, will be guest at DISMA on December 2nd and 3rd 2015; his main research field is computer graphics (geometric modeling and computational origami).

On December 3rd, Professor Mitani will deliver two lectures followed by an origami workshop according to the following schedule:

9.30 Computational Origami Art (Part I)

10.30 Coffee break

11.00 Computational Origami Art (Part II)

The first lecture will have general and basic content, while the second one will be more technical and will also include a short origami workshop (confirmation of people attending Part II is welcome).

ABSTRACT:"Origami has been studied for long time mainly in the field of mathematics. Based on the origami theories constructed by the researchers, now we can design complicated origami pieces from a single sheet of paper. Today, there exists several software tools on which the algorithms for generating origami geometries are implemented. In this talk, I will introduce some my origami design tools which help to design 3D origami; the designed origami pieces sometimes have curved folds. By

implementing an interactive design interface, it became possible to design variety of origami artworks based on quick trial-and-error processes. The algorithms used inside of the software will be explained. A live demo for designing on the software will also be presented in this talk."

The organizers Caterina Cumino e Maria Luisa Spreafico