TITLE: Advanced Paper folding tessellation techniques for architects and designer

CONTENT: Many speak about origami and since a few decades it is considered a cool thing to reference in design and architecture concepts but few have ever tried it. This workshop is going to fill once for ever that gap introducing experts of geometry to the art of folding paper addressed to tessellation. Rather than modelling cranes and flowers participants will test their zen capabilities on Miura-Ori and the likes as a worming exercise and then will move towards curve folding and other even more advanced techniques.

The workshop will include a digital session where some tessellation would be generated using grasshopper, tested with an origami simulator and "laserfolded".

A competition session will see the participant racing against each other folding the fastest paper plane and the strongest loadbearing origami column.

TIMING: 5 hours. Program to be tuned

20'' theory - 30' min warmup - 10'' break
30'' curve folding - 30'' paperplane/column
30'' competition 10'' break 20'' digital origami intro
60'' grasshopper
10'' testing, 20'' lasercutting

SETUP: mixed: Lecture theatre, computer room, fabrication lab

EQUIPMENT: paper, paper, paper, lasercutter, rulers, additional phone camera di show details during demonstration and to online participants.

Best Regards,
Ivan Parati