

Lectures on Origami Engineering

Glaucio H. Paulino (GATech)
Kazuya Saito (UTokyo)
Chie Nara (Meiji University)
Tomohiro Tachi (UTokyo)

December 18th 13:30-17:30

@Advanced Research Lab 410, Komaba 1, UTokyo

The principle of folding appears not only in art but also in natural form. The concept of ORIGAMI is now being researched through a collaboration between various fields, including mathematics, computer science, engineering, biology, design, art, and education. The collaboration is leading to innovative engineering designs. The interactions between panels and folds exhibit stiffness and strength, which leads to lightweight structures. Different folding patterns can yield flexible structures that can compactly fold, leading to deployable structures in space or transformable robots.

Four world's experts of origami engineering give talks on different aspects of latest advances in this field.

Lectures

13:30-14:30 Prof. Glaucio H. Paulino from Georgia Institute of Technology

Origami Engineering: from Deployable Structures to
Configurational Metamaterials

14:30-15:30 Prof. Kazuya Saito (UTokyo)

Origami in Insect Wings

15:30-16:30 Prof. Chie Nara (Meiji University)

Designing Foldable Products based on Discrete Geometry

16:30-17:30 Prof. Tomohiro Tachi (UTokyo)

Origami Transformer: Kinematics of Rigid Origami

Related Events (Please contact us to attend this event.)

Dec. 18th 9:30-12:00 Structural Origami Folding Workshop @ Building 15 room #507

Dec. 20th 9:30-18:00 Structural Origami Contest @ Building 15 room #507

