

# MIMS現象数理カフェセミナー

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## The Introduction of Origami Engineering

Aya Abe (Meiji Univ.)

**Abstract:** Origami engineering is a comprehensive engineering field that applies origami techniques to create various shapes and structures. It realizes a structure with high rigidity and variability while being compact and lightweight. In addition, it can also be an effective educational tool to cultivate creativity and imagination. In recent years, our researches have been carried out in the following 3 fields with the aim of expanding the possibilities of origami, which has developed as a traditional Japanese culture since ancient times.

- Origami design that turns what you see into origami
- Design and production that take advantage of the light and stiff characteristics of the origami structure
- Design and production that make use of the deployable structure of origami

Here, we will introduce some projects of origami engineering conducted at MIMS and their positions in the world.



問い合わせ: Hyunjoon Park  
Email: [hyunjoonps@gmail.com](mailto:hyunjoonps@gmail.com)