明治大学先端数理科学インスティテュート

MIMS現象数理カフェセミナー

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Origami engineering - Introduction of a research on folding of pairing origami and a research on transport box for fruits

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Abstract: In the origami engineering, some approaches have been done that lead to fundamental and applicational research on the technical aspect for applying Origami to industries. Technology of Origami is used in various ways and development is expected. For example, folding methods that expand and contract large sheets are applied to space structures. Moreover, by folding small structures at the cell level, it is trying to be applied also to the medical field. On the other hand, the honeycomb structure is representative as a light and highly stiff structure and has been widely used as an internal structure of aircrafts or buffer material like cardboard so far. For this honeycomb structure, researches have been done on how to fabricate by folding from a single sheet.

Here, I will introduce two research themes I have worked on so far. One is the result of research on folding and crushing characteristics of pairing origami. The second one is about the research progress and future prospects for the transport box for fruits.

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