Realization of common platform technology, facilities, and equipment that creates innovative knowledge and products

Unraveling advanced skills through AI and mathematical modeling

The target of this R&D project is advanced skills existing in human society such as skilled medical doctors or skilled craftsmen. We will unravel hidden

algorithms in them by examining how AIs learn them. Interdisciplinary approaches and collaborations are indispensable for such challenges where mathematical modeling techniques, widely ranging from principal

component analysis to topology or differential geometry, play important roles by providing high-performance descriptors which are appropriate to

the targeted skills. Extracting algorithms from advanced skills is expected

to contribute greatly to our future in the super-aging society.

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R&D Team : Okayama University

Summary :

Progress of learning Description Description Description Description Description Description Description AIS Carefully selected data Improvement of learning Mathematical Modeling Unraveling of hidden algorithms

