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Learning categories grounded in sensation without supervision

§1. 研究成果の概要

In this year, the project has started successfully. We made progress in validating and improving our object-centric deep neural networks. We made an oral presentation of our work on developing object-centric representation in the workshop of "Shared visual representations in human & machine intelligence" of the annual conference of Neural Information Processing Systems, titled "Learning to perceive objects by prediction". I also presented part of the work in a talk at the 21st workshop of Brain and Mind, titled "Learning internal models of the world: brain and machine".