



# **Exploring Robotic Minds: Actions, Symbols, and Consciousness as Self-Organizing Dynamic Phenomena (Oxford Series on Cognitive Models and Architectures)**

*Jun Tani*

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In *Exploring Robotic Minds: Actions, Symbols, and Consciousness as Self-Organizing Dynamic Phenomena*, Jun Tani sets out to answer an essential and tantalizing question: How do our minds work? By providing an overview of his "synthetic neurorobotics" project, Tani reveals how symbols and concepts that represent the world can emerge in a neurodynamic structure--iterative interactions between the top-down subjective view, which proactively acts on the world, and the bottom-up recognition of the resultant perceptual reality. He argues that nontrivial problems of consciousness and free will could be addressed through structural understanding of such iterative, conflicting interactions between the top-down and the bottom-up pathways.

A wide range of readers will enjoy this wonderful journey of the mind and will follow the author on interdisciplinary discussions that span neuroscience, dynamical systems theories, robotics, and phenomenology. The book also includes many figures, as well as a link to videos of Tani's exciting robotic experiments.

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