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CREATING NOVEL GOAL-DIRECTED ACTIONS AT CRITICALITY: A NEURO-ROBOTIC EXPERIMENT
HIROAKI ARIE, TETSURO ENDO, TAKAFUMI ARAKAKI, SHIGEKI SUGANO, JUN TANI
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development of cognitive behaviors.

Experiments using humanoid robots were performed with the model and showed that the action plans for satisfying specific novel goals can be generated by diversified modularizing and combining prior-learned behavioral patterns at critical dynamical states.

Although this critically resulted in fragile goal achievement in the physical environment of the robot, the reinforcement of the robotic environment of the robot.

The present study examines the possible roles of cortical chaos in generating novel actions for achieving specified goals. The

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