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Synergistic Intelligence: JST ERATO project towards Humanoid Science

ABSTRACT: In this talk, prof. Asada will introduce a new JST ERATO Asada Project on **Synergistic Intelligence** (hereafter, SI) that aims at both building and understanding cognitive developmental agents (robot and human).

The project consists of four groups:

- (1) Physio-SI: dynamic motions such as walking, running, jumping, and heading and their seamless connections based on pneumatic muscle actuators,
- (2) Perso-SI: cognitive developmental robotics including body image, imitation, and language communication.
- (3) Socio-SI: emergence of communication and society by androids,
- (4) SI-mechanism: neuroscientific supports for Physio, Perso, and Socio-SIs. I will show some preliminary and on-going sub-projects from the project.

