OIST OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY
沖縄科学技術大学院大学

THEORETICAL SCIENCES VISITING PROGRAM
TSVP TALK

COLLECTIVE INTELLIGENCE IN LIVING/ NONLIVING SYSTEMS

2022
THU. SEPT. 29TH
16:00-17:00
HYBRID L4E48, ZOOM

For zoom and other details scan QR code or visit groups.oist.jp/tsvp

In experiments with biological populations, it is now possible to identify, track, and trace all individuals. Various machine learning methods can also be applied. What new collective knowledge can be seen there as a result: computer simulations of Boids model groups and the evolution of web services show that quantity turns into quality. What are the common properties of these life and non-life populations? In particular, I would like to discuss how Tetrahymena populations evolve over time, how phenotypic changes and its inheritance can be studied.

UNIVERSITY OF TOKYO
TAKASHI IKEGAMI

Takashi Ikegami is a Professor at the Department of General Systems, Graduate School of Arts and Sciences of the University of Tokyo. He works in the area of artificial life research. His simulation and experimental research interests include open-ended evolution in artificial life models, experiments with self-moving droplets, large-scale Boids models, and new theories of collective intelligence. He also conducts experiments on consciousness using an android (ALTER-3). At the same time, he has presented performance art (Kugutsu Kagura2020) with ALTER-3 and VR art (SnowCrash at WhiteHouse, 2021, Reverse Destiny Bridge at AICHI2022).

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