

# International Symposium

What is an emerging interaction?

An exploration of the principle of emerging interactions in spatiotemporal diversity

Date: **March 3rd - 4th, 2024**

Venue: **Knowledge Theater  
in Grand Front Osaka**

Website &  
Registration:

<http://osku.jp/po586>



Free of  
charge

## Program:

### Day 1 (March 3rd)

- 13:00 - 14:00 **Ichiro Tsuda**  
A mechanism of the emergence of functional differentiation in the brain — a variational principle
- 14:00 - 15:00 **Leslie M. Kay**  
Olfactory brain dynamics support brain health
- 15:00 - 15:30 Coffee break
- 15:30 - 16:30 **Peter Ford Dominey**  
Emerging interactions between structural connectivity and narrative structure in reservoirs and brains
- 16:30 - 17:30 **Yuji Kawai**  
Functional differentiation in reservoir computing to learn long-term time series



### Day 2 (March 4th)

- 9:30 - 10:30 **Guillaume Dumas**  
Emerging interactions in humans and machines: from social physiology to social neuro-AI
- 10:30 - 11:30 **Takashi Ikeda**  
Visualizing parent-child relationships: A two-person neuroscience approach
- 11:30 - 13:00 Lunch break
- 13:00 - 14:00 **Yasuo Kuniyoshi**  
From embodiment to super-embodiment: An approach to open-ended and human aligned intelligence/mind
- 14:00 - 15:00 **Alexandre Pitti**  
Efficient codes for unreliable neurons and bodies
- 15:00 - 15:30 Coffee break
- 15:30 - 16:30 **Robert Kozma**  
Interpretation of emergent intermittent synchronization in brains as hallmarks of consciousness
- 16:30 - 17:30 **Minoru Asada**  
Embodiment, interaction and large language models: Revisiting foundations of cognitive development

