

Global **harmony and **well-being**: issues and possibilities**

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Res. Assoc.
Hayashi

- Interaction between physical activity and physical / mental health
- Ecological momentary assessment (EMA) and data analysis
- Health education, including literacy of mental disorders, for students
- Infant development and its brain-body mechanisms
- Motor control and motor learning
- Mechanisms and functions of sleep
- Mechanisms of value-based behavior and related (mental) disorders

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Each individual's subjective well-being, in harmony with others'

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Cooperative/altruistic $\leftrightarrow$ Self-interested

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If they are hardwired and hard to modify

How can it be justified?

Within-individual multiple behavioral modes/controllers

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Intuitive/habitual(system1) <-> Deliberate/goal-directed(system2)

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Bounded rationality (Dimitri Ognibene 2019)

How technology (AI) can be used?

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Assist imagination (model(working memory)-based mental simulation) of sufferers' situations by virtual reality tools?

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Boost (model-free) emphatic emotion by affective computing/robotics?

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Group Activity Recognition to Support Collaboration in Creative Digital Space

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(a)



(b)

Figure 1: Creative digital space. (a) A system that consists of three touchable displays, (b) A virtual display of a configured arrangement of three physical displays.

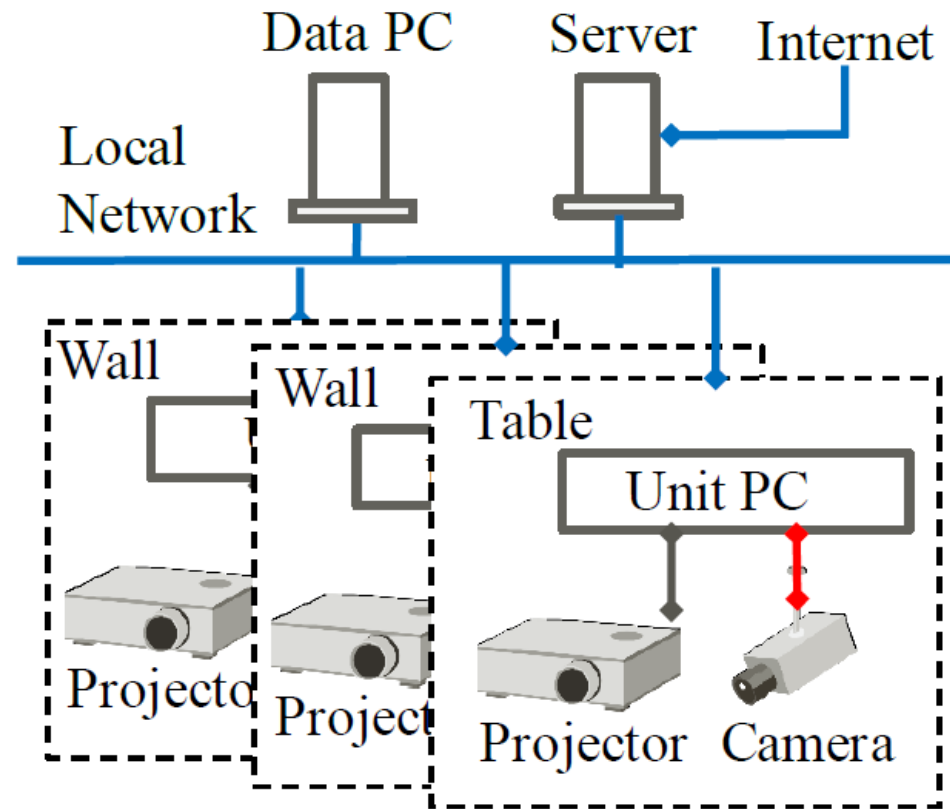
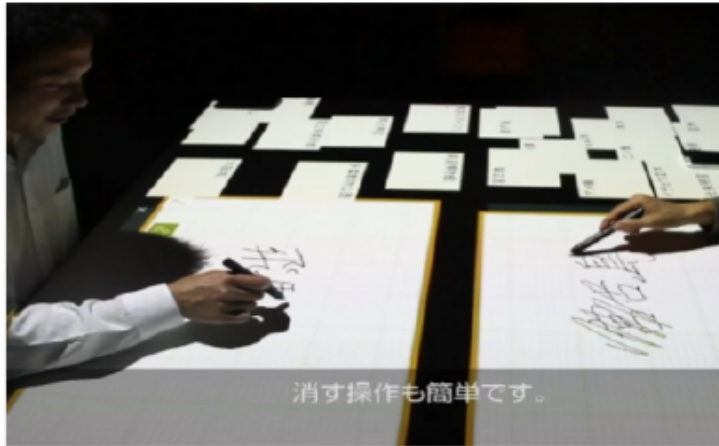


Figure 2: System architecture of the creative digital space, where the "Server" configures the display connections and provides collaborative applications based on web technologies, the "Camera" detects the touch positions of infrared pens used as interaction devices, the "Data PC" collects and analyzes operation events in real-time that occur on the displays.



(a)



(b)

Figure 3: Examples of collaborative applications. (a) Digital Card, (b) Digital Cork Board.

Possible applications for global harmony and well-being

- Connect classrooms in different locations/countries