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Research on Evocation of Idea Generation from Diverse Viewpoints in Decentralized Brainwriting

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In the present age, the tool for supporting creative problem solving in decentralized environment is needed. In order to acquire effective solution finally in this creative problem solving, it is thought important to create as many ideas as possible by divergent thinking. Under such circumstances, research of the decentralized brainwriting which supports divergent thinking is done as one field of idea generation support system. However, the subject which existed from conventional brainwriting that flexibility of thinking cannot be improved is left behind to decentralized brainwriting.

Therefore, the purpose of this research is to clarify an effective method to improve flexibility of thinking in the decentralized brainwriting.

First, in the preliminary experiment, we investigate whether viewpoints in case each participant conceives have deviation using the experiment system α which supports brainwriting in decentralized environment. As a result, it was checked that there is deviation in viewpoints of an individual's way of thinking. Moreover, the experiment system α has the interface which can operate ideas on space. After observing the idea space that participants constituted, it turned out that there are at least two kinds of the idea arrangement methods in the decentralized brainwriting of "arranging related ideas in close. ", and "arranging ideas every person."

Then, in the main experiment, we investigate the influence that showing viewpoints in the tendency which is not conceived gives for idea creation using experiment system β which added the viewpoints presentation function to experiment system α. As a result, it became

clear that showing viewpoints in the tendency which is not conceived improves deviation in viewpoints of the way of thinking and flexibility of thinking. Moreover, although showing viewpoints in the tendency which is not conceived did not have big influence on originality, it also became clear that there is an effect which improves fluency of thinking.

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