

Title	書き込み内容のリンク機能を有するホワイトボードを用いた思考プロセスの振り返り支援に関する研究
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Citation	
Issue Date	2011-03
Type	Thesis or Dissertation
Text version	author
URL	http://hdl.handle.net/10119/9705
Rights	
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Supporting review of thought processes using a whiteboard with a function to link drawn contents

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March 2011

Keywords: whiteboard, link, thought processes

Minutes are made generally for review of many meetings and arguments that performed routinely in the organization. The minutes are useful for a clue that review conclusion of the argument; it is not almost recorded a thought processes, e.g., how and why the conclusions were reached. For example, it is assumed that cooperative task such as the group work is performed in an organization. In this cooperative task, the more past time, the more forget thought of past argument in same theme. Therefore the minutes is made for review; the minutes is recorded like, "an idea of Chapter 1 : ○○,△△, conclusion : □□". In other words the minutes is not almost recorded a clue that review the thought processes, e.g., how and why the conclusions were reached. Because the minutes tends to be written down only contents and the conclusion of the argument by straightforward expression. Also it may be said that there is the cause that it is hard to review in the minutes which are easy to be written down by straightforward expression.

Various systems that support review of past discussions have been developed. Those systems supported to review contents and conclusions of the discussions; they did not support to review thought processes, e.g., how and why the conclusions were obtained. Review of the thought processes is important for avoiding repeat of the same discussions.

This research is object to review of thought processes in a face to face communication. In this research, I define thought processes as "the state of the change of the multiple thoughts that it was thought till I arrive at a result ". In this research, I suggest a white board system to acquire a clue that is the contents of face to face communication. I think that whiteboard is

easy to be reflected contents and the change of the thought, because anyone can write willingly, to write freely, tend to write down important information at the moment. This whiteboard system offer a function which made link between recorded contents in argument to be able to review thought processes. Link is a function which refer to the original place of contents in argument of the day. Tracing this rink can hope that it is easy to review thought processes. In this research, I evaluate the utility that a white board system with the link function supports to review of the thought processes.

In this research, I implemented a preliminary experiment, an evaluation experiment, review experiment to confirm the utility of the white board system which supported review of the thought processes in face to face comunication. In the preliminary experiment, I investigated how to use the white board system. As a result, I understood that horizontal display easy to write down thought information to the white board. In the evaluation experiment, I implemented argument using a white board system to acquire the data of the review experiment. As a result, I aimed at a data of the link information which I was able to acquire. In the review experiment, I showed a white board without link information and had subjects remembered thought processes. Later, I showed a white board with link information and had subjects reviewed thought processes when subjects were able to remember thought processes anymore. As a result, subjects were able to remember thought processes newly by showing link information. To be concrete, subjects remembered thought, e.g., before and behind utterance when subjects attached to link, reason of attach. Subjects could have remembered thought processes of the whole argument by them.

Thus, I could confirm that the white board system supports to review thought processes.