

Title	図によるコンテキストの継時的表現及び共有手法に関する研究
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Citation	
Issue Date	2003-03
Type	Thesis or Dissertation
Text version	author
URL	http://hdl.handle.net/10119/794
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Studies on Representing and Sharing Sequential Contexts by Illustration

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abstract

Researches on Context-aware that focus on representing a fragmentary context using the information sensed with Ubiquitous and Pervasive Computing. Neither representing nor sharing of the sequential context, however, are so mentioned in present researches. This studies focus on representation and share of sequential context, which is illustrated figures, on human behavior. The representing sequential context supports user to grasp the user's own context. So it is useful for the decision-making and the remembering. Grasping the relationship of user's context and the others' by sharing the contexts makes user grasp own actions and events perspectively. I propose, in this thesis, two methods of representation for illustrating and sharing sequential context within a time range. One is a method for representing context of Web browsing which consists of the traced route toward the current viewed Hypertext and Hypertexts around the Hypertext. The method can be applied to the system that makes the Web browsing that has been done alone so far can done cooperatively with two or more people. Another is a method for showing the context in daily life of the real world in comics style. The method can apply a system that represents the experience in the exhibition site by using log data of the personalized exhibition guide system called C-MAP. This thesis is described on a mean to apply the representation methods to software applications, and results of considering practicality by evaluations.