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| Title | ホームネットワークにおける意味的推論を利用した動的なサービス構成環境 |
| Author(s) | KIM, JUNSOO |
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| Description | Supervisor:丹 康雄, 情報科学研究科, 博士 |

Abstract

The goal of this thesis is a dynamic service composition environment on integrated home network system. To achieve this goal we investigated the following fourth research target: Firstly, our system provides a flexible service composition in various home environments by making the system to semantically understand an objective of a service. Moreover, it is possible to realize extendable services and priorities, since these semantic descriptions can be built separately in their own area by a name space. Secondly, the dynamic service priority makes the service manager determines various priority of a service element according to a required policy because various external policy definitions are providing a valuation of elements. Thirdly, we proposed the distributed service developing environment. the system is able to include an external ontology model by importing its name space. Such distributed development of a service model will improve scalability of the service model. In the near future, a distributed environment for developing home services is going to be needed by service provider Finally, the system provides a methodology on how to select the best link to integrated service manager in various home environment since the system can determines a transmitting route of contents suitably among networked home devices including legacy appliances. Our system provides to realize a dynamic service composition environment on integrated home network system.