

Community Grids Top Projects

Universal CAROUSEL Access

<http://grids.ucs.indiana.edu/ptliupages/projects/carousel>

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Project Overview

The primary goal of CAROUSEL (Collaboration Framework for Universal Accessibility) is to develop an open source framework for collaborative computing with universal devices.

Universal accessibility in collaborative system refers to the capability of multiple users to link together using disparate access modes and devices. With CAROUSEL, users of hand-held devices, mobile phones, and conventional desktop machines can join in one collaboration session to accomplish their respective tasks. This system is designed to support both centralized and peer-to-peer collaboration models via a uniform event bus defined in XML and implemented with a pure Java solution. Garnet Message Service Micro Edition (GMSME) is provided for integrating mobile devices to Garnet, a collaborative system developed the Community Grids Lab. GMSME consists of a Personal Server for mobile devices, a Hand Held Message Service (HHMS) protocol, and APIs for application processors.

We are also investigating the framework based on the Web Service architecture supporting universal accessibility.

Related Publications

- *Integration of Hand-Held Devices into Collaborative Environments*

Geoffrey Fox, Sung-Hoon Ko, Kangseok Kim, Sangyoon Oh, Sangmi Lee
IC'02 June 2002 Las Vegas, NV

- *An Architecture for e-Science and its Implications*

Hasan Bulut, Geoffrey Fox, Dennis Gannon, Kangseok Kim, Sung-Hoon Ko, Sangmi Lee, Sangyoon Oh, Xi Rao, Shrideep Pallickara, Quinlin Pei, Marlon Pierce, Aleksander Slominski, Ahmet Uyar, Wenjun Wu, Choonhan Youn

2002 International Symposium on Performance Evaluation of
Computer and Telecommunication Systems (SPECTS 2002) July 17, 2002

- *Ubiquitous Access for Collaborative Information System Using SVG*

Sangmi Lee, Geoffrey Fox, Sunghoon Ko, Minjun Wang, Xiaohong Qiu
SVG OPEN 2002 July 2002 Zurich, Switzerland

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