

Resource Summary Report

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Grid Enabled Molecular Science Through Online Networked Environments

RRID:SCR_008629

Type: Tool

Proper Citation

Grid Enabled Molecular Science Through Online Networked Environments
(RRID:SCR_008629)

Resource Information

URL: <http://gemstone.mozdev.org>

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Description: Integrated framework for accessing grid resources that supports scientific exploration, workflow capture and replay, and a dynamic services oriented architecture. This framework provides researchers in the molecular sciences with a tool to discover remote grid application services and compose them as appropriate to the chemical and physical nature of the problem at hand. The initial set of application services include molecular quantum and classical chemistries (GAMESS, APBS, Polyrate), along with supporting services for visualization (QMView), databases, auxillary chemistry services, and documentation and education materials. * Rich-client Desktop Interface - Gemstone is a Firefox extension that provides a dynamic user interface to backend computational, data and visualization services. * Workflow Integration - Gemstone supports a workflow component based on Informnet (see <http://grid-devel.sdsc.edu/informnet>). They are adapting the Informnet workflow engine to support workflow publication and discovery, brokering, and fault tolerance. They are also adding support for automatic generation of workflows based on user interaction. * Strongly Typed Data Schemas - They are working extensively with CML, integrating their data schemas into workflow systems and providing bridges to the GamesXML that they defined.

Abbreviations: GEMSTONE

Resource Type: software resource, source code

Funding: Mozilla Foundation ;
Pioneers of the Inevitable ;
Oregon State University; Oregon; USA ;
Open Source Lab ;

strg.at ;
Google ;
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enQuira ;
Webspam.org ;
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Resource ID: SCR_008629

Alternate IDs: nif-0000-32004

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Record Last Update: 20260821T193848+0000

Ratings and Alerts

No rating or validation information has been found for Grid Enabled Molecular Science Through Online Networked Environments.

No alerts have been found for Grid Enabled Molecular Science Through Online Networked Environments.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.