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Scientific Information Management in Collaborative Experimentation Environments

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List of Abbreviations

accessMod	Access Mode
AJO	Abstract Job Object
ALICE	A Large Ion Collider Experiment
API	Application Programming Interface
ARCHES	Application, Refinement and Consolidation of HIC, Exploiting Standards
ASC	Astrophysics Simulation Collaboratory
ASCII	American Standard Code for Information Interchange
ASD	Abstract Storage Device
ATLAS	A Toroidal LHC Apparatus
AttProperty	Attribute Property
BSML	Binding Schema Markup Language
CAVE	Cave Automatic Virtual Environment
CDB	Chemical Database
cDNA	Complementary DNA
CEE	Collaborative Experimentation Environment
CLRC	Central Laboratory of the Research Councils
CO-IM	Co-Operative Information Management
CORBA	Common Object Request Broker Architecture
CPU	Central Processing Unit
CoG	Commodity Grid
DAIS	Database Access and Integration Services
DB	Database
DBMS	Database Management System
DCEE	Distributed Collaboratory Experiment Environments
DNA	Deoxyribonucleic Acid
DOE	Department of Energy
DPOSS	Digital Palomar Observatory Sky Survey
DQP	Distributed Query Processing
DUROC	The Dynamically-Updated Request Online Coallocator
EEDM	Experimentation Environment Data Model
EFC	Electronic Fee Collection

ELN	Electronic Laboratory Notebook
EXML	ElectricXML
ExpXRef	Experiment Cross Reference
FETISH	Federated European Tourism Information System Harmonization
FQP	Federated Query Processor
FTIR	Fourier Transform Infra-Red
Flexwork	Framework for Flexible Data Integration to Support System Biology
GASS	Global Access to Secondary Storage
GCE	Grid Computing Environment
GDMP	Grid Data Mirroring Package
GE	Gigabit Ethernet
GGF	Global Grid Forum
GGF-DAIS	Global Grid Forum - Database Access and Integration Services Working Group
GSI	Grid Security Infrastructure
GUI	Graphical User Interface
GriPhyN	Grid Physics Network
HIC	Heterogeneous Interprocessor Communications
HLA	High Level Architecture
HPC	High Performance Computing
HPSS	High Performance Storage System
HSS	Hierarchical Storage System
HTTPS	Secure Hypertext Transfer Protocol
HTTP	Hypertext Transfer Protocol
I/O	Input/Output
ICES/KIS	Interdepartementale Commissie voor Economische Structuurversterking- /Kennisinfrastructuur
ICT	Information and Communication Technologies
ID	Identifier
IM	Information Management
IT	Information Technology
JDBC	Java Database Connectivity
JNI	Java Native Interface
JSX	Java Serialization to XML
LDAP	Light-weight Directory Access Protocol
LHC	Large Hadron Collider
LIGO	Laser Interferometer Gravitational-Wave Observatory
LIMS	Laboratory Information Management System
LSR	Logical Storage Resource
MACS	Material Analysis for Complex Surfaces
MCAT	Metadata Catalog
MCS	Metadata Catalogue Service
MDMS	Meta-Data Management System
MIAME	Minimum Information About a Microarray Experiment

MPICH-G	Grid-enabled implementation of MPI (Message Passing Interface) Standard
mRNA	Messenger RNA
NetCDF	Network Common Data Form
NJS	Network Job Supervisor
NMR	Nuclear Magnetic Resonance
NWO-BMI	Nederlandse Organisatie voor Wetenschappelijk Onderzoek - Biomoleculaire Informatica
ODBMS	Object-oriented Database Management System
ODL	Object Definition Language
ODMG	Object Data Management Group
OGSA	Open Grid Services Architecture
OGSA-DAI	Open Grid Services Architecture - Database Access and Integration Project
OID	Object Identifier
OIF	Object Interchange Format
OPM	Object Protocol Model
OQL	Object Query Language
PDE	Partial Differential Equation
PDF	Process Data Flow
PFT	Process Flow Template
PSD	Physical Storage Device
PSE	Problem Solving Environment
PSR	Physical Storage Resource
QP	Query Processor
RDBMS	Relational Database Management System
RMI	Remote Method Invocation
RNA	Ribonucleic Acid
RPC	Remote Procedure Call
RSL	Resource Specification Language
RTI	Run-Time Infrastructure
RTS	Run Time System
SILS	Swammerdam Institute for Life Sciences
SOAP	Simple Object Access Protocol
SQL	Structured Query Language
SRB	Storage Resource Broker
UML	Unified Modeling Language
URL	Uniform Resource Locator
USpace	Internal Data Space
UvA	Universiteit van Amsterdam
VCLab	Virtual Control Lab
VDC	Virtual Data Catalogue
VDL	Virtual Data Language
VDT	Virtual Data Toolkit
VE	Virtual Enterprize
VIMCO	Virtual Laboratory Information Management for Co-Operation
VLAM-G	Grid-based Virtual Laboratory Amsterdam

VL	Virtual Laboratory
VNMRF	Virtual NMR Facility
VO	Virtual Organization
VRML	Virtual Reality Modeling Language
WSDL	Web Services Definition Language
WebDAV	Web-based Distributed Authoring and Versioning Protocol
WFMC	Workflow Management Coalition
WWW	World Wide Web
XML	Extensible Markup Language
XQL	XML Query Language
XSpace	External Data Space