Information integration among Heterogeneous and Autonomous Applications

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Publication date
2002

Citation for published version (APA):

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List of Abbreviations

ADO: ActiveX Data Object
API: Application Programming Interface
BLOB: Binary Large Object
CDM: Common Data Model
CGI: Common Gateway Interface
COMCOL: Communication and Collaboration Layer
CORBA: Common Object Request Broker Architecture
DBA: Database Administrator
DBT: Data Browsing Tool
DC: Dublin Core
DCMI: Dublin Core Meta-data Initiative
DIMS: Distributed Information Management System
DLL: Dynamic Link Library
DTD: Data Type Definition
EC: Electronic Commerce
ER: Entity Relationship
EXP: Export Schema
FL: Federated Layer
FDBMS: Federated Database Management System
FRS: Federated Resources Specifications
FQP: Federated Query Processing
GF12S: Generic and Flexile Information Integration System
IDL: Interface Definition Language
IIS: Internet Information Server
IMP: Import Schema
INT: Integrated Schema
IPR: Intellectual Propriety Rights
JDBC: Java Database Connectivity
**LAL**: Local Adaptation Layer

**LAN**: Local Area Network

**LOC**: Local Schema

**LRS**: Local Resources Specifications

**MACS**: Material Analysis for Complex Surfaces

**NFL**: Node Federation Layer

**ODBC**: Open Database Connectivity

**ODBMS**: Object Database Management Systems

**ODL**: Object Definition Language

**ODMG**: Object Database Management Group

**OIF**: Object Interchange Format

**OLAP**: On Line Analysis Processing

**OLE-DB**: Object Linking and Embedding for Databases

**OMT**: Object Modeling Technique

**OQL**: Object Query Language

**ORDBMS**: Object-Relational Database Management Systems

**RDBMS**: Relational Database Management Systems

**RMI**: Remote Method Invocation

**SDDL**: Schema Definition and Derivation Language

**SMT**: Schema Manipulation Tool

**SQL**: Structured Query Language

**SQL/CLI**: SQL Call-Level Interface

**SQL/PSM**: SQL Persistent, Stored Modules

**STEP**: Standard for the Exchange of Product Model Data

**UML**: Unified Modeling Language

**UDBA**: Universal Database Access Interface

**VIMCO**: Virtual-laboratory Information Management for COoperation

**ViSE**: Virtual Simulation and Exploration

**VL**: Virtual Laboratory

**VLAM-G**: Grid-based Virtual Laboratory Amsterdam

**VL-e**: Virtual Laboratory for Experimental Science

**XML**: eXtensible Markup Language

**WAN**: Wide Area Network