

## List of Acronyms

### ➤ *Concepts*

ADT	Abstract data type
AIDA	Amdocs Intelligent Decision Automation
AKT	Advanced Knowledge Technologies
AM	Access Methods
ANSI SQL	American National Standards Institute standardized Structured Query Language
API	Application Programming Interface
ArM	Archive Manager based on MDIM
ArM32	32-bit realization of Archive Manager based on MDIM
ASCII	American Standard Code for Information Interchange
BSBM	Berlin SPARQL Benchmark
BSBM	Berlin SPARQL Bench Mark
BST	Binary Search Trees
BTC	Billion Triple Challenge
CI-BER	Cyber-infrastructure for a Billion Electronic Records
DAML+OIL	DARPA Agent Markup Language + Ontology Inference Layer
DB	DataBase
DB-models	Models for organization of the data in the DataBases
DBMS	Data Base Management System
DOD	Department of Defense
DVD	Dissociated Vertical Deviation
ebXML	Electronic Business using eXtensible Markup Language
EC	Electronic Collections
ER-model	Entity – Relationship model
GIS	Geographic Information Systems
GUI	Graphical User Interface
HTML	HyperText Markup Language
HTTP	Hypertext Transfer Protocol
ID	IDentifier
IS	Information space
KIF	Knowledge Interchange Format
LDIF	Linked Data Integration Framework
MDAM	Multi-Dimensional Access Method

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MDIM	Multi-Dimensional Information Model
MPGN	Multi-layer Pyramidal Growing Networks of information spaces
NARA	National Archives & Records Administration
NDM	Network Data Model
NLA	Natural Language Addressing
NL-access	Data Access using Natural Language Addressing
NL-Addressing	Natural Language Addressing
NL-archives	Data Base based on Natural Language Addressing
NLARead	Function of the module WordArM for accessing the information by Natural Language Addressing
NL-ArM	NL-addressing Archive Manager
NLAWrite	Function of the module WordArM for storing the information by Natural Language Addressing
NL-index	Index of Natural Language Addresses
NL-path	A path defined by natural language word or phrase
NL-storing	Storing based on Natural Language Addressing
NL-version	Realization based on Natural Language Addressing
NL-words	Natural Language Words
N-Quads	RDF quadruples
NSF	National Science Foundation
N-triples	RDF triples
ODBMS	Object DataBase Management Systems
OKBC	Open Knowledge Base Connectivity
OLAP	OnLine Analytical Processing
ORDBMS	Object-Relational DataBase Management Systems
OWL	Web Ontology Language
PC	Personal Computer
PHT	Perfect Hash Tables
RAM	Random Access Memory (main memory of the computer)
RDBMS	Relational DataBase Management Systems
RDF	Resource Description Framework
rdfDB	RDF Database
RDF-Read	Function of the module RDFArM for accessing the information by Natural Language Addressing
RDFS	RDF schema
RDF-Write	Function of the module RDFArM for accessing the information by Natural Language Addressing
RSO model	Relation-Subject-Object model
SD cards	Secure Digital cards
SGML	Standard Generalized Markup Language
SPARQL	SPARQL Protocol and RDF Query Language
SRO model	Subject-Relation-Object model
UML	Unified Modeling Language
UNICODE	Universal encoding standard
UNL model	Universal information model
URI	Uniform Resource Identifier

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URLs	Uniform Resource Locators
USB	Universal Serial Bus
W3C	World Wide Web Consortium
XML	Extensible Markup Language

➤ ***Program tools***

AllegroGraph	High-performance persistent graph database
Apollo	Class system is modeled according to the OKBC
ArMSpeed	Specialized tool for NL-addressing of a document data base
Berkeley DB	A tool for storing RDF information
Chimaera	Software system that supports users in creating and maintaining distributed ontologies on the web
DOE	Differential Ontology Editor; simple ontology editor which allows the user to build ontologies according to the methodology
DOLCE	Descriptive Ontology for Linguistic and Cognitive Engineering; the first module of the WonderWeb Foundational Ontologies Library (WFOL)
Firebird	A relational database that runs on Windows, Linux, and a variety of UNIX platforms
FrameNet	Lexical resource for English, based on frame semantics
GDM	Graph Data Model
GGL	Graph Database System for Genomics
GMOD	Graph-oriented Object Manipulation
GOAL	Graph-based Object and Association Language
GOOD	Graph Object Oriented Data Model
Gram	Graph Data Model and Query Language
Grinder	WordNet compiler for converting lexicographic format in to internal DB format
GROOVY	Graphically Represented Object-Oriented data model with Values
HyM	Hypernode Model
ICOM	Intelligent Conceptual Modeling
ICON	<b>I</b> nstrumental <b>C</b> omplex for <b>O</b> ntology designation <b>N</b>
INFOS	<b>I</b> Ntelligence <b>F</b> ormation <b>S</b> ystem
KAON	<b>K</b> arlsruhe <b>o</b> ntology - open-source ontology management system targeted for business applications
K-Infinity	Knowledge editor broad support for object-oriented knowledge modeling
LDM	Logical Data Model
LinKFactory Workbench	Originally designed for very large medical ontologies
Medius Visual Ontology Modeller	UML-based ontology modeling tool
Mikrokosmos	Part of the Mikrokosmos knowledge-based machine translation system currently under development at the Computer Research Laboratory, New Mexico State University
OEM	Object Exchange Model
OilEd	Simple editor that allows the user to create and edit OIL ontologies
Omega	Terminological ontology constructed at USC ISI as the reorganization and

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	synthesis of WordNet
OntoArM	Experimental module for storing ontologies (small RDF triple sets) using NL-addressing
OntoEdit	Built on top of a powerful internal ontology model
OntoIntegrator	Onto-linguistic research integrated environment for NLP using complicated structured ontological models
OntoLingua	Oriented toward the authoring of ontologies by assembling and extending ontologies obtained from the library
OSTP	Office of Science and Technology Policy
PaMaL	Object Oriented Pattern Matching Language
PROMT	Based on an extremely general knowledge model and therefore can be applied across various platforms
PropBank	Proposition Bank - focuses on the argument structure of verbs, and provides a complete corpus annotated with semantic roles, including roles traditionally viewed as arguments and as adjuncts
Protégé	Free, open source ontology editor and knowledge-base framework
RDFArM	Experimental module for storing large RDF triple or quadruple datasets
RDFArM-MP	Multi processor simulation of RDFArM work
RDFedt	Freeware module for creating complex Resource Description Framework (RDF) files
Sensus	Terminology taxonomy, as a framework into which additional knowledge can be placed
Sesame	An open-source framework for querying and analyzing RDF data
SMART	Self-Monitoring, Analysis and Reporting Technology; Based on an extremely general knowledge model and, therefore, can be applied across various platforms
SUMO	Suggested Upper Merged Ontology
WebODE	Extensible ontology-engineering suite based on an application server, whose development started in 1999 and whose support was discontinued in 2006
WebOnto	Java applet coupled with a customized web server which allows users to browse and edit knowledge models over the web
WordArM	Experimental module for storing thesauruses using NL-addressing
WordNet	Large lexical database of English
YARS	Yet Another RDF Store