

Index

A

Adoption Convergence 277, 280-281
 Application Liking Enabling (ALE) 122
 application ontologies 247
 Application Service Provider (ASP) 213-214
 Atlas Transformation Language (ATL) 343
 Atomic Interface Components (AICs) 257
 attribute axes 257
 Attribute Confidences 194-195, 198, 200, 206

B

Business Process Reengineering (BPR) 74, 76-77, 80, 116
 business process specificity 153-154, 156, 158, 163-169, 171

C

Change Management 13, 70, 74-78, 80-84, 90-91, 93, 95, 97, 129, 295
 Client-Server Computing 213
 cloud computing 210-223
 combinator 262
 complementary technology investment 290, 292, 301-302
 component ontology 253
 Computation Independent Models (CIMs) 327
 computer self-efficacy (CSE) 2-3, 6, 9
 Computing Architecture 210
 confirmatory factor analysis (CFA) 8
 content axes 257, 259
 corporate culture 142
 critical success factors (CSFs) 3, 74, 86
 Cronbach's Alpha 8, 164, 278, 300
 Current Value Confidences 194-195, 198, 206

D

Darwin Information Typing Architecture (DITA) 244
 data synchronization 170, 174, 194-196, 198-199, 203, 205-209
 define the model (DOM) 257
 demand management 154, 163
 demand-side organizations 268-269, 271-272, 274-277, 281-282, 305
 description language 243, 255
 Description Logics (DLs) 226
 developer oriented approach 263
 diffusion of innovations (DoI) theory 288, 292, 294
 domain knowledge specificity 153-154, 156-158, 163-171
 domain ontologies 253-255, 258, 260, 262-265

E

e-Business 51, 54-62, 66, 68-72, 128, 251, 285-286, 299-300, 311-312, 315, 324
 Eclipse Modeling Framework (EMF) 343, 352
 e-Commerce 56-57, 61-62, 64, 66, 68, 71-72, 305, 311, 336
 Electronic Data Interchange (EDI) 56, 141, 291, 295, 307
 e-marketplace 64
 End-User Computing 253
 end-user participation 281
 Enterprise Application Integration (EAI) 63
 Enterprise Architectures 177-180, 183, 189
 Enterprise Computing 210, 251
 Enterprise Recourse Planning (ERP) 1, 13
 Entropy Method 86-88
 e-Partnering 56
 e-Procurement 57, 64, 71
 e-SCM 57, 65-66, 71
 eXtensible Markup Language (XML) 268-269, 287-288, 309

F

First-Order Logic 318-319
 Force Field Analysis 114-117, 128, 134
 free-rider problems 270-271
 Function Design Method 243-244

G

Global Data Synchronisation (GDS) 160
 Grid Computing 213-214, 221

I

IDEAlliance 299-300
 illocutionary acts 238-239
 inflation factor (VIF) 278, 280
 Information Silos 93
 infrastructure as a service (IaaS) 211, 213
 Interest Heterogeneity 269, 271, 274, 282
 inventory management 16, 56, 154, 156, 173
 IT Infrastructure Integration 153-154, 156, 160, 163-171

K

Kaiser-Meyer-Olkin test 44
 knowledge stock 272, 274, 278, 280-281, 294-296, 301-302, 304

L

legacy technology embeddedness 276, 280
 Less Developed Countries (LDCs) 220
 Linguistics-based modeling methods 236-237, 242, 244-246, 250
 locutionary acts 238

M

Master Data Management (MDM) 194
 materials requirements planning (MRP) 41
 Message-Oriented Middleware (MOM) 197
 meta-document domain 262
 Meta-Object Facility (MOF) 317
 microbrowsers 220
 Model Driven Software Development 177
 model-eval-display loop framework 177
 Model Processing Framework (MPF) 181
 modular ontologies 226, 234
 modular separation 254
 multinational corporations (MNCs) 87

N

Neperian logarithm 88
 n-tiered architecture 61

O

OASIS 244, 252, 264, 266-267, 287-288, 299-300, 304, 353
 Object Constraint Language (OCL) 314, 317, 319, 340
 Object Role Modeling (ORM) 232
 ontology context model 317, 333-334
 ontology spaces 233
 organizational compatibility 276, 278, 280-281
 organizational participation 268, 271-272, 278, 280
 original equipment manufacturers (OEM) 139
 Orphaning risk 270, 275, 287-288, 296-298, 302-304

P

Partial Least Squares (PLS) method 300
 perceived ease of use of a technology (PEOU) 2
 perceived usefulness (PU) 2, 5-6, 9
 perlocutionary acts 238
 platform as a service (PaaS) 211, 213
 Platform Independent Models (PIMs) 327
 Platform Specific Models (PSMs) 327
 Postconditions 319, 321-322
 principal components analysis (PCA) 300
 process freedoms 155
 Provider Registry 255-256
 Pulso Architecture 186

R

R/3 System 122, 124, 130
 radio frequency identification (RFID) technology 142
 real-time inventory 154
 reciprocal investments 153-156, 158-159, 163-171
 reference ontologies 247
 Relational Interaction 153-156, 159-160, 163-171
 request assembly 262
 request axes 257-259, 261
 Resource Heterogeneity 271, 278
 return management 154
 RFID-based SCM architecture 154
 Risk Hedging 275, 278, 280
 role modeling 225-228, 231-233

S

Semantically Enhanced Model Version Control System (SMoVer) 339
semantic axes 257-259
semantic import 232, 234
Semantic Interface Definition Language (SIDL) 256
semantic portal frameworks 265
semantic separation 253-256, 258, 262, 264
Semantic User Interfaces (SUIs) 253-254
Semantic Web services (SWS) 313-314, 328
Service Level Agreements (SLAs) 216
Service Oriented Development Method (SOD-M) 314, 316, 327
service provider contract 255, 262
software as a service (SaaS) 211, 213
Speech act theory 237-239, 242
standard legitimization 287-288, 298-299, 303-304
standards-development organization (SDO) 269, 287-288
store operations 154
strong semantic coupling 254
structural equation modeling (SEM) 2, 8
Structural Modeling 236
SUI Documents (SUIDs) 254
SUI domain 262, 265
Supply Chain Council (SCC) 67, 161
Supply Chain Management (SCM) 54, 57, 65, 67-68, 71-73, 137-139, 144-145, 148-152, 156-157, 161, 163-164, 171-175
Supply Chain Operations Reference (SCOR) Model 67, 157
supply-side organizations 271-272, 274-275, 278, 282, 304
SWOT analysis 115, 117, 121, 125, 132-135
SyncML (Synchronization Markup Language) 206

T

Technology Acceptance Model (TAM) 1-2, 13-18
Technology Assimilation 287-288, 293, 302
telematics 64
terminating gesture 255, 262
text document domain 257, 262, 265
Theory of Reasoned Action (TRA) 2
third party logistics (3PL) 140
Top Management Support 3, 75-77, 79, 81, 94-97, 114, 116, 129, 132-133
Total cost of ownership (TCO) 116
transaction cost theory 155, 158-159, 289, 310

U

user interface design 15-16, 263
user interface pattern language 256
Utility Computing 213, 221

V

Version Control Systems (VCSs) 337-338

W

Web Ontology Language (OWL) 225
Web Services Execution Environment (WSMX) 328
Web Services Modeling Ontology (WSMO) 314, 327-328
Web Services Modeling Toolkit (WSMT) 315

X

XML-based technology 293
XML-based vertical standards 268-269, 281, 295