Index

A
ad hoc changes 198
Agent-Based E-Hub Model 77
Agent-Based Modeling (ABM) 77
Agent Composition Problem 22
Analytic Hierarchy Process (AHP) 24
aptitude 58
artificial intelligence (AI) 2
implementation concerns 14
Assignment Problem (AP) 22
Association Rule Mining (ARM) 270

B
Back-Propagation Network (BPN) 220-221, 225
behavior role management 130
belief-desire-intention (BDI) model 51
BLOCKS component framework 6
bulk changes 198
business-to-business e-hubs 73, 75-76

C
Capital Budgeting (CB) 24
CaRMA (Calibration of River Model Assistant) 12
choreography execution models 198
citizen-centric government 199
classification and regression trees (CART) 223, 237
cognitive computations models 50
CoGPlat (Citizen-oriented e-Government Platform) 197, 200
   service compositions in 208
CoGPlat middleware infrastructure 200
collaborative filtering 259
collaborative filtering techniques 261
Collaborative Natural Language Interaction (CNLI) 119-120
communication model 62, 290
competence evaluation 23, 25
competence map 20
competence measure 20
composite service 198
Consumer-Generated Media (CGM) 258
corrective maintenance 252
Corrective Maintenance Agent (CMA) 251
credit scoring 221
credit scoring models 221

d
Data Access Objects (DAO) 262
data mining 269
data privacy policies 201
data sanitization 272
data warehouse update functionality 165
data warehousing architecture 162, 165
decision tree approach 223
defuzzify
   polygon-shaped fuzzy numbers 186
dimension tables 172
disfavoring mechanism 179
Distributed Association Rule Mining (DARM) 270
Distributed Data Mining (DDM) 270
dynamic multilingualism (DM) 119-120
dynamic role binding 130
E
eFlow project 198
E-Governance and E-Democracy Center (EEC) 205
Electronic-Consumer Style Inventory (E-CSI) 95
electronic Government (e-Government) 199
eMark 97
e-marketing mix 97
e-marketing mix model 97
E-Marketing Mix Shopping Agent (EMMSA) 105, 112
embedded systems 245
terprise agent (EA) 23
Index

entity autonomy policies 201
ETL metadata model 165
execution models 198
existing self-management architecture 132
extended filtering model 289
Extract-Transform-Load (ETL) 161
Extreme Learning Machine (ELM) 220, 226

F
favoring mechanism 179
features selection 227
Fire prevention agent (FPA) 251
Flickr 257
F-score approach 223, 231
function behavior management components 130
fuzzy yield forecasts 183
into polygon-shaped fuzzy numbers 186
fuzzy yield learning models 181, 183-184
genetic programming (GP) 180

G
Gruber’s general yield learning model 180
HoSoda’s study 74

H
HoSoda’s study 74
information sharing 73
Information Sharing Strategy (IIS) 73, 76
in B2B e-hubs 76
in traditional supply chains 74
information systems/technologies (IS/T) 140-141
in Mergers and Acquisitions (M&A) 143
performance 145
intelligent tutoring systems (ITS) 47-48
interaction policies 201
interface behavior management components 131
interoperability 197
Intrusion detection agent (IDA) 251
Item Response Theory (IRT) 49

J
Jess library 109
JessTab 111

K
KBS generators 2
K Nearest Neighbor (KNN) 225
Knowledge-Based Systems (KBS) 2
knowledge bases 4
knowledge behavior management components 130

L
LAMA architecture 4
LAMA platform 3, 6, 12, 15
LAMA toolkits 3, 7
language faculty 121
abstract architecture 122
architecture 122
macro architecture 122
micro architecture 124
learning and transition analysis (LTA) 180
Linear Discriminate Analysis (LDA) 222
Linear Temporal Logic (LTL) 34

M
macro yield modeling (MaYM) 180
management components 130-131
Mergers and Acquisitions (M&A) 140-141
Mergers and Acquisitions (M&A)IS/T research in 143
meta generator approach 2
Metamodel Management Center (MMC) 204
micro yield modeling (MiYM) 180
model calibration 11
model validation 27
multi-agent logics 33
Multi Agent System (MAS) 19-21, 25, 33, 246, 285
MULtilinguaL natural language Agent Interface
(MULLAI) 119, 133, 138
multimedia synoptics 244

N
negotiation-agreement based selection model 296
new behavior acquisition management components 131
Index

O
orchestration execution models 198
OVAL 11

P
performance index of models 67
personalized Web-based instruction system (PWIS) 49
photo sharing sites 257
POESIA 199
preventive maintenance 251
Preventive Maintenance Agent (PMA) 251
pricing strategy 101
Privacy Preserving Distributed Association-Rule-Mining Algorithm (PPDAM) 278
proposed behavior management architecture 132
propositional logical language 35
public agent (PA) 25

R
resource-based theory (RBT) 141-142
Resource Description Framework (RDF) 198
return on asset (ROA) 145
return on equity (ROE) 145
return on invested capital (ROIC) 145, 149
Rough Sets Theory (RST) 222

S
sanitization matrix 273
sanitizing algorithm 273
SCADA systems 241
Secure Multiparty Computation (SMC) 272-273
self-service technologies 95
Semantic Web 198
Semantic Web Services (SWS) 199
service customization levels 200
Service-Oriented Architecture (SOA) 197
service traceability policies 202
single-hidden layer feed forward neural networks (SLFNs) 226
Social Wellness indicators 21
software agents 119
SquidBee 248
stored procedure 164
Support Vector Machine (SVM) 220-221, 224
system-large-scale-integration (LSI) 180

T
TACLE 10
telecontrol 241
temporal data warehousing 164
temporal logics 33
territorial agent (TA) 22
three-tier architecture 262
time complexity 280
Traceability and Auditing Center (TAC) 206
traditional photographic process 257
traditional supply chains 74
Transparent Services Center (TSC) 202
triangular fuzzy numbers (TFNs) 181
tutor-subject-student (TSS) paradigm 47-48

U
UML diagram 62
utility computational model 290

V
VieDAME project 198

W
Web 2.0 259
wrapper stored procedure 166

Y
yield forecasting 179, 193