Index

A
agent-based negotiation strategies 28
agriculture 125, 128, 129, 131, 137
Air Force Knowledge Now (AFKN) 3
algorithm 27, 37, 38, 41, 42, 44
Applied Knowledge Assessment (AKA) 318, 330

B
back-office application systems 286
broad-based beneficial 270
business of government 317
business process reengineering (BPR) 351

C
C5.0 algorithm 88
citizen-centered approach 236
citizen-centric governments 146
city government 313, 315, 320, 325
city managers 313, 314, 315, 317, 318, 319, 323, 324, 325, 328, 329
civilian applications 26
civil-military boundaries 15, 16
civil-military networks 17
civil society 109, 209, 220
clustering algorithms 82
Code-Division Multiple Access (CDMA) 367
collaboration 56, 57, 58, 75
collaborative mediation approach 74
communication-based approach 56
communications-challenged environments 23
communications infrastructure 23
communicative globalization 212
community-driven approach 18
complex socio-technical systems 46
computer based training (CBT) 336
Computerized Information Department (CID) 281
computer literacy 266
Computer Systems Policy Project’s (CSPP) 261
concept-based I-FGM 86, 87, 88, 89, 90, 92
concept-based image retrieval method 77, 78
conceptual framework 255, 256
conceptualize technology 193
conceptual portal 14
Content Based Image Retrieval (CBIR) 79
cosmopolitan online culture 212
cultural aspects 201, 202
cultural conditions 256
cultural factor 211
cultural institutions 213
cultural matrix 212, 213
cultural roots 211
cultural schemes 209, 210, 211, 215

D
Darpa Agent MarkUp Language (DAML) 59
data aware 27
data collection 48, 53
data mining 341, 342, 346
data mining tool 86
data organization 72
data processing 27, 28, 29, 32, 33, 34, 37, 42
data state transition graph (DST) 29
data transmission 27, 29, 32, 33, 42, 365, 367, 375
decision-making 256, 258, 263, 265, 267, 268, 269, 270
decision-making processes 98
de facto 46, 52
Defense Information Systems Agency (DISA) 1, 11
de jure 46
Department of Defense Directive (DoDD) 15
Department of Defense (DoD) 1, 12
Department of Homeland Security (DHS) 1, 12
Deputy Commissioner (DC) 102
digital divide 267, 268, 269, 297
digital gap 128
digital government 2, 267, 272
Digital Subscriber Line (DSL) 369
DoD 1, 3, 5, 6, 7, 8, 11, 12, 13
dynamic heterogeneous data 77
dynamic search 78, 79, 97
E
e-administration 100
e-business 166
e-commerce 1, 2
e-commerce services 136, 139
economic environments 192
e-consultations 297, 305
e-discussion forums 297
e-governance model 255, 260, 270
e-government development 220, 221, 275, 276, 277, 278, 279, 281, 282, 283, 284, 286, 288, 289, 290, 291, 294
e-government (EG) 332, 333
e-government experts 144
e-government interoperability 47, 54
e-government project management 233
e-government revolution 313
e-government services 313, 315, 316, 349
e-government strategies 280
e-government systems 267, 313
e-groups 297, 301, 304
Elected Members (EMs) 296, 297, 301
electronic business 166
electronic system 185
electronic technologies 109
end-user resolution 9
enterprise architectures 251
Enterprise Information Portal (EIP) 287
e-panels 297
e-petitioning 297
e-PING 52
e-PING coordination 48, 50, 53
e-Platform 235
e-service 234, 237, 238, 239, 240, 245, 246, 247, 248
Evolution Data Only (EVDO) 367
e-voting 297, 300, 305
extensible markup language (XML) 4
eXtensible Stylesheet Language Translation (XSLT) 6
F
face-to-face semi-structured interviews 45
financial resources 181, 182, 183, 185, 186, 198, 202, 203, 208
Food Network 145
frequent asked questions (FAQs) 173

G
game theory 35, 42
genetic algorithms 342
Geographic Information Systems (GIS) 372
Geographic Positioning Systems (GPS) 372
Geospatial Information Database (GIDB) 3
GIDB portal 3
global economy 98
Global Information Grid (GIG) 2
globalized formats 213
globalized online communication 214
globalizing practices 213
global knowledge 72
global network 5, 6
Global Positioning System (GPS) 366
Global System for Mobile communication (GSM) 367
global utilization 27
glocalization 210, 213, 214
government client 289
government communication 209, 225
government contexts 204
government information technology 193
government management 286
government modernization 255, 259, 260, 264
government processes 209
government services 111, 112, 113, 114, 119, 120, 121, 122, 123
government-to-business (G2B) 72
government-to-citizen 71
government-to-customer (G2C) 72, 261
government-wide transformation 349
graphical structure 81
group-based structure 18

H
hardware 193, 194
Haryana Land Records Information System (HALRIS) 145
Haryana Registration Information System (HARIS) 145
heterogeneous cultural identities 214
hierarchy 57, 58, 61, 63, 64, 68, 69, 70
Homeland Security Digital Library (HSDL) 3
human agency 296, 298, 299, 309
human development 263, 267, 268
Human Resource Information Systems (HRIS) 156, 164, 165,
human resource management 146
human resources 186
hybridization 210, 213, 214, 215, 221, 226
hybrid mentality 215

I
ICT adoption 255, 262
ICT applications 99
ICT based model 125
ICT policies 168
ICT projects 124
ICT resources 300, 302
ICT revolution 124
ICTs infrastructure 146, 147, 148, 150, 151, 152, 153, 154, 156, 157, 158, 159, 160
ICT strategies 99, 168
ICT systems 47
ICT usage 305, 306, 307
ideology 210, 211, 221
I-FGM framework 77, 78, 79, 80
I-FGM prototype 88, 90
image databases 82, 96
image retrieval algorithm 78, 79, 80, 85, 86, 87, 88, 90, 95
information and communications technology (ICT) 49, 98, 190, 209, 255, 343
information-based services 132
information flow 267
information-gathering mechanism 269
information infrastructure 263
Index

information processing 277
Information Society 220
Information Systems Plan (ISP) 287
information technology (IT) 46, 110
infrastructure 1, 2, 12
institutional environments 193
institutional theory 191, 192, 194, 205
Integrated Web Services Broker (IWB) 2
Intelligent Foraging, Gathering, and Matching (I-FGM) 77
interaction 332, 333, 335, 340, 343
inter-agent communication protocols 74
intergovernmental alliance 278
Internal efficiency and effectiveness (IEE) 2
internal organizational 236
international organizations (IO) 15
Internet communication 209, 212, 214
Internet imperialism 212
interorganizational IT applications 190
inter-organizational network 46
inter-organizational systems 46
intra networks 286
IT Advisory Board (ITAB) 245, 246
IT experts 278, 286
IT-strategist 238
IT systems 263
IT vendors 285, 286, 287, 290, 291
K
knowledge networks 267, 268
knowledge society 254, 271, 272
KQML query 61
L
life cycle 127
Local Education Authority (LEA) 357
local government (LG) 357
local governments 314, 315, 316, 317, 323, 325, 327, 330
localized globalism 213
Long-Term Evolution (LTE) 367
M
machine learning algorithm 82, 83, 86, 88
MANET technology 23
manual system 111, 114, 115, 116, 117, 122, 123
Maritime Domain Awareness (MDA) 21
masculine society 225
Mesh Networks 365
metadata publishing 3
meta-data tags 17, 18
methodology 145
micro-activity 192
middleware 9, 10
mobile ad-hoc networks 26, 27, 28, 42, 43, 44
mobile ad-hoc networks (MANET) 23
mobile government 365, 366, 379
Mobile Web 2.0 applications 368
monetary transactions 277
MovIT 235, 236, 237, 238, 239, 240, 242, 243, 245, 246, 247, 248, 250, 253
MovIT project 235, 236, 237, 238, 240, 242, 245, 248
MovIT proposals 238
multi-agent planning 24
multi-agent system 56
Multi-agent systems (MAS) 72
multimedia 219
multi-media files 81
multinational organizations 350
N
national frameworks 251
National Informatics Centre (NIC) 112, 113, 145
national security 1, 12
network environments 26
network topology (NET) 37
neuronal networks 342
New Public Management 233, 246, 250, 251
non-governmental organizations (NGOs) 15
non-technical aspect 168
non-technical factors 168
O
online communication 211, 212, 214, 215, 221, 222, 225
online government 99  
online government communication 209, 210  
online-real-time communication 360  
online retrieval 277  
online tax filing 277  
onontological-based application 72  
onontological mediation 56, 57, 58, 61, 62,  
66, 67, 68, 71, 72, 74, 75  
onontologies 56, 57, 58, 59, 60, 61, 69, 70,  
72, 73, 74, 75, 76  
onontology 9, 10, 11, 12  
Ontology Interchange Language (OIL) 59  
onopen source software 17, 25  
onorganizational contexts 193  
onorganizational culture 281, 290, 291  
onorganizational environment 184, 193  
onorganizational performance 144, 145, 146,  
147, 148, 149, 150, 151, 152, 153,  
154, 157, 159, 161  
onorganizational research 192  
onorganizational rules 193  
onorganizational structures 191, 203, 318  
onorganization culture 146, 147, 150, 152, 153  
onorganization strategist 238

**P**

Personal Computer (PC) 146  
personal digital assistant (PDA) 367  
PHP hypertext processor language 17  
platform 56  
policy innovation 255, 262, 269, 270  
policy innovation 263  
policy-making based 257  
political communication 210, 214, 215, 226  
political-communicative forms 214  
political-communicative paradigm 214  
political constraints 360  
political culture 209, 210, 214, 215, 222,  
223, 224, 225  
political factors 193, 198  
political-institutional history 332  
pre-prepared taxonomies 9  
proof-of-concept implementation 42  
proxy node 27

**Q**

quality of service (QoS) 27

**R**

RDQL query 59  
real-time services 146  
real-time transactions 144  
Region-based methods 79  
resource coordination protocol 27  
Resource Description Framework (RDF) 59  
retrieval systems 56  
RTI 117

**S**

scheduled tribes (ST) 113  
Secretariat of Information Technology (SIT) 145  
social challenges 146  
social elites 210  
social exclusion 305  
Social mediation 336  
social network analysis (SNA) 21  
social network Web sites 16  
social relationships 210, 221  
Social Sciences 212  
social structures 297, 298, 299, 300, 308, 309  
society 144, 146, 254, 256, 257, 258, 261,  
262, 264, 268, 269, 270, 271, 272,  
273, 332, 333, 338, 343, 344  
socio-cultural contexts 214  
socio-economic 256, 257, 260, 267  
sociology 192  
Softmax 35, 193, 194, 318  
source software 17, 25  
State-of-the-art data 265
Index

strategic management model 250
structural frameworks 15
structuration theory 296, 298, 299, 300, 303, 309
student loan application process (SLA) 357
Students Loans Company (SLC) 358
symmetric nor transparent 209

T

tactical environments 26, 27, 42
telecommunications 193
terminology 8, 10, 11
text retrieval application 77
t-government 351, 353, 359, 360
T-Government 349, 350, 351, 352, 353, 356
Time-Division Multiple Access (TDMA) 367
transformational government 351, 352, 353
transnationalization 212

U

unequal society 119
United Arab Emirate (UAE) 170
universal discovery description and integration (UDDI) 4
Universal Mobile Telecommunications System (UMTS) 367
unstructured text 77, 78
urban community 257, 258, 262, 264, 271
urban development 255, 257, 258, 260, 262, 263, 266, 267, 268, 269, 270, 271, 273
urban technology networks 267

V

video conferencing 147, 148, 154, 156, 157, 158, 160, 164

W

WALRUS 79, 80, 86, 88, 89, 90, 91, 96
WALRUS based I-FGM 86
WALRUS sub-system 86, 90
wavelet image retrieval scheme 78
Web-based dissemination 8
Web-based services 4, 5
Web-browser-based applications 16
webcasts 297
web communication 210, 212, 221, 225
web design 213, 228, 231
Web log 342
weblogs 297, 305
Web Mapping Service (WMS) 3
Web Ontological Language (OWL) 59
Web portal 2, 3, 100
Web service 4, 8, 10, 11
Web service operation 10
web services 360
Web services 1, 2, 4, 5, 9, 10, 11, 12, 13
web services description language (WSDL) 4
websites 209, 211, 212, 213, 215, 216, 220, 225
Web sites 167, 169, 170, 173, 177, 179, 186, 187
WiMaX networks 370
Wireless communication 365
wireless infrastructure 365, 366, 367, 369, 371, 374, 376, 377, 378
Wireless Metropolitan Area Networks (WMANs) 370
wireless security 365, 374, 378
World Summit on the Information Society (WSIS) 168

X

XML 4, 5, 6, 10, 11