Index

A
Abnormal Context Monitoring and Managing Module 27, 30
absorptive capacity 233-238, 243, 245-246
analytic hierarchy process (AHP) 153, 159, 170
Annual Call Rate (ACR) 202
Annual Failure Rate (AFR) 202
ANTOM 58-60
ARIMA 274, 281, 284
automatic approach 103, 105, 110

B
balancing intended consequence (BIC) 204
balancing unintended consequence (BUC) 204
BDS test 276, 279, 284
Bounded Confidence Model 311, 316, 320-321
BP-ANN 274, 281-282, 284-285

C
chunker 107, 112
CIRI 56, 60
cloud computing 247-249, 253-254
cloud intelligence 250-251
crowd level 17, 251-254, 330
meta-selve level 252-253
cognitive-mental (CM) 3
combined forecast method integrating contextual knowledge (CFMIK) 274-275, 286
computational social science 312, 326
Computer Supported Collaborative Work (CSCW) 294
conceptual model 233-235, 243
concern identification process 221-222
consistency index (CI) 160, 170, 174
Consistency ratio (CR) 160, 171, 174
Construction Industry Council (CIC) 186, 190
correct direction forecast rate (CDFR) 283
creative events 80
creative space 80-81, 88, 94
criteria weights 168, 170, 172
cryptography 74
cultural historical activity theory (CHAT) 296
Culture Dissemination Model 311, 315-316, 319, 322-323
Customer Context (CC) 22
Cyc 53, 61

D
data gap 248
DBpedia 55, 60
decision making matrix 49-50
decision support system (DSS) 181
degree of non-satisfiability 45-46, 49-50
degree of satisfiability 45-46, 49-50
deliberative system 182
Deoxyribonucleic acid (DNA) 73
Design Conjecture Cycle 86
design insight 117-119, 126, 129, 131
Dialectical Systems Theory 255
dialogue mapping 296
discourse 63-64, 72, 80
disseminative capacity 233-238, 240-243, 245-246
Distribution Knowledge Push Module 26
Distribution Plan Self-Adaptively Adjusting Module 27
Divergence-Convergence-Crystallisation-Verification (DCCV) 82-83
DOT language 297-298
Index

E
eigenvector centrality 292-293, 295-297, 299-304, 307, 310
electronic document management (EDM) 298
Enlightenment-Analysis-Hermeneutic Immersion-Reflection (Hermeneutic EAIR) 82
Enlightenment-Debate-Immersion-Selection (Debating EDIS) 82
Enlightenment-Experiment-Interpretation-Selection (Experimental EEIS) 82
Enterprise Citation Network 34, 36-39, 43
Ergonomics and Soft OR (Operations Research) 294
Evolutionary Computational Systems Laboratory (ESCL) 142
expected monetary value (EMV) 174
feedback degree 292-293, 295-297, 299-300, 304, 306-307
Explanatory Creativity (E-creativity) 133
exponential smoothing 274-275, 281-282, 284, 287-288

F
failure factor structuring methodology (FFSM) 196
failure mode effect analysis (FMEA) 197
fault-tree analysis (FTA) 197
feedback degree 292-293, 295-297, 299-300, 304, 306-307

G
generative social science 312, 328
genetic algorithms (GAs) 137
Gestalt approach 84
Google PageRank algorithm 35
Graphical User Interface (GRQL) 57
Grey Relational Analysis (GRA) 154

H
Historical Creativity (H-creativity) 133
Human Computer Interaction (HCI) 294
human network 2, 7, 12-15
coordinate-type 14
practice-type 14
support-type 14

I
I5-system model 81, 83
idea cards 157
idea sticky notes 157
incremental monetary value (IMV) 174
information and communication technologies (ICT) 194
information extraction (IE) 54
information-life 74
information retrieval (IR) 53
information system 293
information system development 293
Infrastructure as a Service (IaaS) 248
injection moulding 106
inner push of process 118-119, 125-129
innovators market game (IMG) 153, 155, 157, 160
insight moments 79-84, 87-90
interactive evolutionary computation (IEC) 137
Interactive Genetic Algorithms (IGAs) 137
International Academy for Systems and Cybernetic Sciences (IASCYS) 256
intuitionistic fuzzy set (IFS) 45
Invention-Innovation-Diffusion Process (IIDP) 256
Inventive Design Methodology (IDM) 95-96
ISO 26000 255, 258-259, 272
ISO 31000 216-217, 232
i-System 1-3, 5, 7, 9-14, 17, 115

K
KeyGraph 153-157, 161, 163, 165
KH Coder 11-12
Kings Norton Parochial Church Council (KNPCC) 226
KJ method 117-118
knowledge absorptive 234
Knowledge-as-a-Service (KaaS) 247
knowledge coordination 1-2, 11-12, 14-15
knowledge coordinator 1-3, 5-7, 11-12, 14
knowledge creation processes (KCPs) 114
knowledge disseminative 234
knowledge elicitation system (IKES) 154
knowledge exchange rule 233, 235-238
knowledge management system (KMS) 57
Knowledge process analysis (KPA) 116, 120, 129
knowledge recipient 233-237
knowledge science 16, 79-81, 88-89, 92, 116-117, 120, 131
knowledge sender 233-236, 241
knowledge transfer 182, 233-240, 243, 245-246

L
Location and Routing Problems (LRP) 20
longest common subsequence (LCS) 146
Lyapunov Character Index 276
Index

M
madness of crowds 313, 330
mean squared error (MSE) 279
membership function 45
meta-reflection 113-115, 117, 120, 126-130
model of meta-reflection (MMR) 113, 127-130
Modular Distribution Knowledge Integration Module 27
morpho-syntactic patterns 103, 108, 110
multiple criteria decision making (MCDM) 45

N
narrative database 181
narrative construction 184
narrative evaluation 184
narrative knowledge 181-182
negative-ideal solution (NIS) 169
Network Context (NC) 21
Network Theory 294, 314
non-membership function 45
NOOJ 108-109
NSGA-II 140, 142, 144

O
Objective-Process-Expansion-Closure (OPEC) 82
ontological engineering 53, 62
ontology 25, 52-62, 103, 111, 214, 217-218, 228, 231-232
OpenCrowd® 249
operational decision making 67
opinion dynamics 311-321, 323-326, 328-332
organizational narrative simulation (ONS) 179, 183, 190

P
PAJEK 39, 44
partial solution space 101
Patent Analysis 34, 44, 103
patent citation information 34-35, 43
Personal Creativity (P-creativity) 133
personal knowledge management (PKM) 60
personnel movement 233-235, 243-245
physical distribution system 18
Platform as a Service (PaaS) 248
positive-ideal solution (PIS) 169
Principle Component Analysis (PCA) 20
problem space 84, 87, 98, 101
Product Context (PC) 21

R
random index (RI) 160
reinforcing intended consequences (RICs) 204
requirement sticky notes 157
Requisite Holism (RH) 256, 270
Resource Context (RC) 22
risk management process 214-215, 217
Robust Minimal Recursion Semantics (RMRS) 55
root of mean squared error (RMSE) 283

S
scientific-actual (SA) 3
cscore function 45-47, 49-51
SECI model 81-82, 121, 125-126
Semantic MediaWiki 56, 61
Seven Views Approach 219
Information View 219, 224, 228
Process Behaviour View 219
Process Content View 219-220
Process Instance View 219, 225
Process Structure View 219
Stakeholder View 219
Small and Medium Enterprises (SMEs) 53
social-relational (SR) 3
social responsibility (SR) 256-257, 270
sociophysics 311-312, 328, 331
Soft Systems Methodology (SSM) 294
Software as a Service (SaaS) 248
solution concept 98, 100
storytelling 181-182, 191-192
storytelling database 181
stupidity of crowds 313
subjective fitness evaluation 132, 146, 149
system failure dynamic model (SFDM) 196
system of system failures (SOF) 193-194
system of system methodologies (SOSM) 194
system quality assurance (SQA) 203
systems of communication 63-64
explanation 63-64, 66, 72, 85, 98
imagination 3-4, 7, 11-12, 15, 63-64, 66-76, 79-83, 88-91, 93, 96, 113-115, 117, 120, 126-130, 149-150, 262
SZNAJD Model 311, 319, 322-326, 331-332

T
tagger 107, 112
Task Context Aware and Processing Module 25
Task Context based Distribution Knowledge Calling Module 26
Index

Task Context based Distribution Knowledge Construction Module 26
Task Raw Data Acquisition Module 24
Technique for Order Preference by Similarity to Ideal Solution (TOPSIS) 169
technological competition 34
TEI@I methodology 274-275, 286, 289-290
Theory of Innovative Problem Solving (TRIZ) 154
total quality management (TQM) 194
total system intervention for system failure (TSI for SF) 194
Toukae 6
tourism experts 5, 9
Transformational Creativity (T-creativity) 133
TRIZ 96, 98, 103, 154

U
Unified Modelling Language (UML) 217
United States Patent and Trademark Office (USPTO) 38
user fatigue 142, 145, 149

V
vague sets 45, 51
values, culture, ethics, and norms (VCEN) 256
Viable System Model (VSM) 195
virtual money 157
voice of customers (VOCs) 163
VOTER Model 311, 314-317, 319, 322-325, 327-329, 331-332

W
Web structure mining 35-36
Wikipedia 52-62
WordNet 54-56, 62, 104, 109

Y
YAGO 56, 62