Index

A
acquisition process (AQ) 153, 239
acquisition stage 49, 67, 74, 225, 229, 258, 266, 269, 279, 287
acquisition stage (AQ) 258
Activity Diagrams 288-289
Adjusted Goodness-of-fit (AGFI) 251
Application Specific Integrated Circuits (ASIC) 38

B
Business Intelligence (BI) 20, 27
Business Process Re-engineering (BPR) 20, 28
business-to-business (B2B) 101
business-to-customer (B2C) 101

C
Capability Maturity Model (CMM) 50, 260
Chief Executive Officer (CEO) 39
Chief Information Officer (CIO) 39
climate preparedness 106, 109, 132, 134-136, 138-139, 147, 150, 211, 239, 247-248, 266, 270
CMM- Integrated (CMM-I) 130
Commercial Off The Shelf (COTS) 49
Comparative Fit Index (CFI) 251
Computer Aided Design and Manufacturing (CAD&M) 3
Computer Aided Designs (CAD) 10
Computer Aided Manufacturing (CAM) 10
Computer Aided Software Engineering (CASE) 51
Computer Based Information Systems (CBIS) 44
Confirmatory Factor Analysis (CFA) 166, 239
Corrected-Question-Total 169, 173-174, 176, 179, 181-182, 184, 186-188, 190, 192, 200, 202, 207
Cronbach alpha coefficient 169, 211
cybernetic paradigm 18

dashboards 17, 29-32, 37
data processing (DP) 99, 283
decision making style 109, 135, 138-139, 147, 186, 191-192, 219-221, 264, 278
Decision Support Systems (DSS) 20, 80
dummy coding 164-165, 211-224, 226-227, 229-233, 256

E
Electronic Data Interchange (EDI) 100, 283
Emerging Market (EM) 17
Enterprise Application Integration (EAI) 128
Enterprise Resource Planning (ERP) 3, 10, 20, 70, 88, 120
entrepreneurial orientation (EO) 93
evaluation-choice 25
Evolutionary acquisition strategy 52
Executive Information System (EIS) 100, 283
Executive Support System (ESS) 130
External Service Providers (ESP) 69

F
Factor Analysis (FA) 164
Federal Aviation Administration (FAA) 130

gap analysis 63
General Accounting Office (GAO) 96
general systems theory (GST) 11, 15, 21, 34
Goal-Question-Metrics (GQM) 124, 144
Goodness-of-Fit Index (GFI) 252
Index

I
Information System Development (ISD) 52, 95
Information Technology Assessment and Adoption (ITAA) 65
integrated capability maturity model (FAA-iCMM) 130
Integrated Product Development (IPD-CMM) 53
internal IT capability 248
international entrepreneurship (IE) 93
IT acquisition life cycles 31, 91, 106, 125
IT infrastructure life cycle 8

J
Jackson System Development (JSD) 72
Just-In-Time (JIT) 69

K
Key Performance Areas (KPA) 54

L
Likert scaling 160-161, 260
Linear Structural Relationship (LISREL) 241

M
Managed Staffing Programs (MSP) 69
management control 17, 19, 24-25, 31-33, 97
Management Information System (MIS) 41, 99, 127, 283
Management of Reporting Structure (MRS) 130
manufacturer’s knowledge acquisition (MKA) 93
Massachusetts Institute of Technology (MIT) 101
Mintzberg model 10
multiple regression analysis (MR) 212

N
Nolan’s Phase Theory 97-98
Non-Normed Fit Index (NNFI) 251
Normed Fit Index (NFI) 251-252

O
Object Oriented Analysis and Design (OOAD) 72, 284

Object oriented Modeling Technique (OMT) 72
On-Line-Analytical-Processing (OLAP) 28
On-Line-Transaction-Processing (OLTP) 28
organisational preparedness 135-136, 139-140, 221
Organizational Contexts 65, 74, 86, 89, 121, 297
organizational life cycle 1, 5-11, 13-14, 18-20, 22
organizational life cycle management 1

P
Path Analysis (PA) 240
Perceived Ease of Use (PEOU) 79
Perceived Usefulness (PU) 79
performance measurement 12, 24-26, 28-30, 32, 130
planning and policy (PP) 188, 193-194, 221, 237
Post acquisition phase 96, 133, 136-137, 140
pre-acquisition preparedness 106, 109, 132, 134-136, 139, 142, 145-146, 169, 247, 257-258, 265-266, 269, 279
Principal Component Analysis (PCA) 164
process component 12
programmable Logic Controls (PLC) 271
Project Management (PM) 221

R
Return on Investment (RoI) 2, 75
Root Mean Square Error of Approximation (RMSEA) 252
Root Mean Square Residual (RMR) 251-252
significance testing 244
Small and Medium-sized Enterprise (SME) 75
Software acquisition-CMM (SA-CMM) 51
software Capability Evaluation (SCE) 73
standardized root mean square residual (SRMR) 251
Strategic Alignment Maturity (SAM) 103
Strategic Alignment Model (SAM) 156
Strategic Information System (SIS) 100, 283
Strategic Information Systems Planning (SISP) 97, 106
strategic users 47, 52, 64, 74-75, 106, 109, 145, 147, 161, 169, 172, 261, 265, 274, 285
Structural Equation Modeling (SEM) 165
structuredness 26, 46
Structure Systems Analysis and Design Method (SSADM) 72
Supervisory Control And Data Acquisition (SCADA) 10, 271
system development life cycle (SDLC) 129, 273
System Engineering -CMM (SE-CMM) 53
Systems Analysis and Design (SA&D) 284
systems thinking 12, 16, 33

T
Technology Acceptance Model (TAM) 76
Theory of Reasoned Action (TRA) 79
type of trimming 244-246
there is no alternative (TINA) 3
Total Cost of Ownership (TCO) 36
Transaction Process System (TPS) 130
transaction strategy 107, 138, 147, 149, 215, 262-263

U
Unified Modelling Languages (UML) 44
Unified Theory of Acceptance and Use of Technology (UTAUT) 76
User Centered Design (UCD) 62, 67
user motivation (UM) 192, 196-197, 221
user perception 135, 138, 147, 151, 188, 190, 192, 216-221, 247-248, 274, 279

V
Vendor capability 112, 137, 266
vendor control mechanism (VC) 225

W
work-in-process (WIP) 276
Work Locus of Control Scale (WLCS) 161