

# Index

## A

acceptable sacrifice 209  
actor 73  
administrative innovation 45  
adoption 45, 119, 282  
advanced planning and scheduling 101  
advantage business research 338  
advertising 116  
affordable loss 146  
aggregation 237  
alliance 70  
altruism 144  
American Management Association  
(AMA) 255  
America Online (AOL) 322  
anti-spam 323  
AOL instant messenger 307  
AOL online coach 316  
A P3P Preferences Exchange Language  
(APPEL 1.0) 334  
API (Application Protocol Interface) 81  
APPEL 334, 349

application service provider (ASP) 212  
archive information 30  
artificial-intelligence-based knowledge  
management system 156  
attention-based information system  
148, 150, 153  
attention management 146, 158  
attitude 155  
automated 215  
availability of alternatives (AA) 104  
available services 213

## B

B2B e-commerce 18, 23  
B2B e-procurement 27  
B2B exchanges 19  
B2B model 21, 23  
B2B sell-side model 23  
Bartlett test of sphericity 121  
behavioral intention (BI) 317, 324  
billing 80  
billing system 30  
Botfighter 80

broadband Internet 207  
 bundling 207  
 business-to-business (B2B) 18, 96  
 business-to-business integration (B2Bi) 1  
 business infrastructure relationship 19  
 business modeling 20  
 business opportunity 153  
 business partnership 146  
 business process modeling (BPM)  
 165, 166

## C

CanAccessLog 197  
 cannibalize 47  
 canonical correlation analysis 120  
 case-driven design 187  
 case study method 96  
 causal reasoning 145, 158  
 causation 156  
 Center for Advanced Purchasing Studies  
 101  
 centralized logging service 177  
 chat 307  
 CheckAvailability submap 174  
 CheckButStocksSufficient 184  
 chief privacy officer (CPO) 360  
 choice 335  
 choice decision 29  
 CLAAS 33  
 Clearing House Automated Payment Sys-  
 tem (CHAPS) 25  
 cognition 145, 152  
 collaboration 4, 5, 148  
 collaborative mindset 4  
 collaborative planning, forecasting, and  
 replenishment (CPFR) 101  
 collaborative product design 108  
 common understanding 202  
 communicate ideas 214  
 communication channels 149  
 comparability 28  
 competitive global rivals 101  
 competitive strategy 136  
 completeness 202  
 componentized software 10  
 composition 210, 235  
 composition operator 178  
 compromise 58  
 computers 146  
 computer self efficacy (CSE) 307  
 computer tooling 202  
 computer virus 258  
 conceptual framework 118  
 conceptual model 229, 285  
 conceptual value modeling 187  
 concrete 210  
 configuration 207  
 conflict management 225  
 consistency 202  
 Consumer-Retailer 181  
 context 68, 222, 234  
 contingencies leveraging 146  
 contingency 146  
 continuous innovation 297  
 control 258  
 cooperating components 10  
 cooperation 5  
 coordination in Web services development  
 11  
 coordination problem 9  
 corporate architecture 5  
 corporate code of discipline 270  
 correlation 58, 177  
 Council of Logistics Management 93  
 counter-party 24  
 courting phase 155, 156  
 credit risk 24  
 CRM software 289  
 Cronbach's  $\alpha$  value 124  
 cross-enterprise collaboration 5  
 cross-functional business process 101  
 CSAPP 351  
 CSE 311, 317  
 customer-useful differentiating feature 12  
 customer demand 213  
 customer need 208, 210  
 customer registration 23  
 customer relationship management (CRM)  
 24, 283, 304  
 customer requirement 206, 210  
 customer service life cycle (CSLC) 150  
 customer support 80  
 customization 248

**D**

data protection directive 350  
 date 246  
 decentralized 10  
 decentralized computing 11  
 decision-making process 143  
 decision maker 147  
 defamation 258  
 defeat 58  
 degrees of satisfaction 177  
 delay in delivery 29  
 delivery process 28  
 demands 204, 221, 227  
 derivation 360  
 design 210  
 design element 210  
 desired quality 206  
 desktop purchasing 27  
 developing system 9  
 digital economy 136  
 digital nervous system (DNS) 148  
 direct material 108  
 discontinuous innovation 297  
 distributed computing 10  
 distribution channel 43  
 docile channel 147  
 docility 136, 147  
 domestic phenomenon 158  
 download speed 207, 219  
 dynamic stub 173, 183

**E**

e-business 22, 34, 136, 331, 348  
 e-business model 22  
 e-business process 20  
 e-commerce 19, 96  
 e-mail 256  
 e-mail facilities 215, 220  
 E-Mail Management Group (EMMG) 268  
 E-Plus 78  
 e-mail policy 274  
 e-procurement 19, 93  
 e-service 199, 251  
 E3-value 189  
 EDIFACT 32  
 EDI literature citation 102

EDI system 103  
 effectual reasoning 145, 147, 156, 158  
 effectuation 146  
 electricity supply 212  
 electronic calendar 24  
 electronic cataloging system (ECS) 26  
 electronic communication 146, 300  
 electronic data interchange (EDI)  
     27, 96, 99, 101  
 electronic mail 325  
 Electronic Privacy Information Center  
     (EPIC) 344  
 engaging competition 146  
 enterprise application integration (EAI) 8  
 enterprise privacy authorization language  
     (EPAL) 335  
 enterprise resource planning (ERP) 101  
 entrepreneurial opportunities 152  
 Entrepreneur Magazine 138  
 entrepreneurship 145  
 environment 7  
 EPAL 334  
 Ericsson 81  
 ERP-system 32, 102  
 Excel 214  
 expected return 146  
 extended enterprise 7, 9, 97  
 extended enterprise architecture 11  
 extended enterprise integration (EEi) 8  
 extensible markup language (XML)  
     36, 333

**F**

factor analysis 120  
 feature-solution graphs (FS-graphs) 213  
 final settlement 26  
 financial information 113  
 firm size 50  
 flexibility 9  
 forks 183  
 Formosa Plastics Group 147  
 franchisee life cycle 155  
 franchisee subsystem 150  
 franchising 153  
 FS-graph structure 215  
 functional interdependence 73

fundamentally desired duration 9  
future orientation 54

## G

Gates' digital nervous system 148  
generic 73  
getCatalog 180  
GIS data provider 81  
global integration 153  
globalisation 20  
goal-oriented modeling 166  
goal oriented requirements engineering  
(GORE) 208  
GRL model 189  
gross domestic product (GDP) 26

## H

Håkansson's distinction 74  
hierarchy 2, 210  
holistic framework 136  
human resources (HR) 262

## I

i-mode 76  
ICT 7, 10  
IM 311  
iMedia 76  
increased penalties 344  
independent service (service bundle) 198  
indirect goods 94  
indirect materials 94  
individual 155  
industrial economy 158  
inertia of marketing channels 43  
information and communication technology (ICT) 2  
information exchange 95, 97  
information sharing 100  
information system (IS) 201  
information technology (IT)  
2, 58, 255, 285, 332  
initial adoption 283  
initiate 60  
innovation 44, 60, 282  
innovation stage 153, 156  
insight 148

inspection policy 241  
instant messaging (IM) 322, 325  
Institute for Supply Management 93  
institutional pressure 50  
intangible 70  
intangible (knowledge-based) 74  
integration of processes 28  
inter-departmental 58  
inter-organizational 58  
interchange linkages 101  
interconnected subsystem 146  
interdependencies 68  
intermediary controls 80  
internal integration 8  
International Center for Entrepreneurial  
Development (ICED) 157  
Internet 19, 152, 311  
Internet-based channel 50  
Internet-based information technologies  
113  
Internet-based marketing channel 43, 58  
Internet-based sales 61  
Internet access 201  
Internet banking 58, 114, 119  
Internet channels 50  
Internet connectivity capability 215, 220  
Internet service provider (ISP)  
201, 221, 308  
Internet technology 114, 119, 136  
interorganizational system (IOS) 99  
interpersonal level 58  
intervention 58  
intranet-based curriculum 156  
Irish Research Council for the Humanities  
and Social Sciences (IRCHSS) 277  
IT-enabled extended enterprise 7  
IT-enabled work system 58  
ItemListEmpty 197  
IT integration 8  
IT knowledge 53

## J

Japan Airlines' (JAL) 102  
Java 2 Platform, Enterprise Edition (J2EE)  
36  
just-in-time (JIT) 96

## K

Kaiser-Meyer-Olkin (KMO) 121  
 knowledge 155, 208  
 knowledge-based resources 70  
 knowledge engineering 223  
 knowledge management 147  
 knowledge representation 213  
 knowledge structure 73  
 KPN Mobil 76

## L

label context 246  
 labeling 335  
 last operation(s) outcome 246  
 law 343  
 LBS directory service 79  
 learning stage 156  
 legacy system 36  
 legal entity 7  
 legal risk 25  
 liability for defamation 258  
 liquidity risk 24  
 LISREL analysis 42  
 LISREL model 52  
 local 217  
 locality 146  
 local logging 177  
 location-based services 76  
 location-based system (LBS) 79  
 location-independent 215  
 LogEvents 173  
 logistics efficiency consideration 28  
 logistics support 30  
 LogRequestValid 197

## M

“me” phase 155, 156  
 maintenance, repair, and operations (MRO)  
     21  
 major conflict 218  
 major constraint 146  
 management information systems (MIS)  
     99  
 management support 53  
 manual 215

manufacture finished goods 172  
 manufacturer-warehouse 181  
 market B2Bi 7, 8, 12  
 market dynamism 95  
 marketing 80  
 marketing channel 42  
 marketing strategy 296  
 marketplace 35  
 market pressure 50  
 market segment 222  
 marketspaces 20  
 market Web services 8  
 master 155  
 measurement 202  
 medium 340  
 message sequence chart (MSC) 184  
 micro investment lending enterprise  
     (MILE) 157  
 minor conflict 218  
 MMS 75  
 Mobilaris 81  
 mobile commerce 75  
 mobile information and entertainment  
     service 69  
 mobile positioning system (MPS) 81  
 mobile service 76, 84  
 mobile telecommunication network 75  
 model 183  
 model-based approach 202  
 model available services 200, 208  
 model customer needs 200, 208  
 model driven architecture 186  
 modeling 202  
 model relations 200, 208, 213  
 monitoring 258  
 MonitoringSystem 182  
 MoreItems 197  
 motivation 155, 241  
 MRO goods 102

## N

nationwide standard 344  
 Natural Science and Engineering Research  
     Council of Canada 192  
 Navtech 79  
 near-transfer 310

near decomposability 136, 158  
 nearly decomposable systems 160  
 NEG 216  
 negative relationship 60  
 negotiation 335  
 netchising 137, 152, 153  
 network-specific 73  
 network form of organization 14  
 networks 73  
 new information technology 146  
 new technology (BI) 311  
 non-technical 98  
 non-technical solution 325  
 non-technology conventional companies 153  
 Nordic countries 60  
 Norwegian energy sector 199  
 Norwegian energy utilities 198  
 novice 155

## O

objective assessment 72  
 observation 202  
 OECD 337  
 on-site 215  
 online banking 114  
 online payment 23  
 online service 199  
 ontological theory 202  
 open system 101  
 operation 239  
 operational linkages 93, 95, 100, 101, 104  
 operational risk 25  
 operation source 246  
 operation type 246  
 operation validation and outcome 246  
 order history 24  
 ordering process 28  
 order status 23  
 ordinary least squares (OLS) 106  
 organizational identification 137, 147  
 ownership 56  
 ownership of technological innovation 47

## P

P3P 331  
 parents 220  
 Pareto principle 159  
 partner 73  
 partnering 8  
 partnering organization 8  
 payment process 28  
 peer-to-peer community 348  
 perceived ease of use (PEOU) 309, 317, 324  
 perceived risk 115, 119  
 perceived usefulness (PU) 309, 312, 324  
 perception of risk-reduction 119  
 PeriodicReplenishment 186  
 personal 221, 348  
 Personal Information Protection and Electronic Documents Act (PIPEDA) 350  
 personal involvement 116, 119  
 personalization 235, 236  
 PET 334  
 phishing 323  
 platform for enterprise privacy practices (E-P3P) 335  
 platform for Internet content selection (PICS) 334  
 policy 238  
 polyphonic (16-chord) ringtones 77  
 POS (demand, resource) 213  
 power structure 73  
 primaryScenario 183  
 principal-agent theory 6  
 privacy enhancing technologies (PET) 334  
 privacy legislation 350  
 privacy management model 357  
 privacy policy 348  
 privacy policy compliance system (PPCS) 360  
 privacy preference (P3P) 331  
 privacy rules 352  
 privacy sensitivity level (PSL) 352  
 private 349  
 processing 113  
 process innovation 45  
 procurement procedure 36

product data management 96  
 ProductExists 197  
 production rules 213, 215, 229  
 production system 213  
 property-based resource 70  
 property rights theory 6  
 proposal process 28  
 protocol 335  
 public policies 146  
 purchase good 168  
 purchasing 94  
 purchasing decisions 116

## Q

qualitative (fuzzy) value 178  
 qualitative-interpretive 202  
 quality function deployment (QFD) 227  
 quality standard 153

## R

R-context 237, 250  
 rational decision-making model 58  
 rebel phase 155, 156  
 REJ(demand, resource) 213  
 relational exchange theory 93  
 relations 227  
 relationship 73  
 renewal phase 155, 156  
 ReplenishTimer\_timeout 197  
 RepositoryAvailable 197  
 requirement expression 210  
 requirements engineering (RE) 208, 228  
 resource 76, 238  
 resource-based literature 70  
 resource-based perspective 72  
 resource-based view (RBV) 71  
 resource dependence 73  
 resources 73, 204, 207, 227  
 RetailerService 188  
 right architecture 36  
 right solution 36  
 right strategy 36  
 risk-reduction measure 118  
 risk management 26, 152  
 role integrity 95

## S

sacrifice 205, 221  
 SAP-systems 34  
 SARS 151  
 SARS crisis management 151  
 satisfaction 177  
 scenario definition 173  
 secure format 30  
 security 241  
 security strategy 246  
 SEL 216  
 selection policy 173  
 semi-automated 349  
 service-oriented architecture (SOA) 188  
 service bundle 199, 223  
 service dependency 207  
 service element 206  
 service innovation 45  
 service input 207  
 service marketing 206  
 service network 76  
 service ontology 215  
 service outcome 207  
 service property 206, 221  
 service provider 69  
 service provision 80  
 service quality 206  
 serviguration process 222, 223  
 severeness 218  
 siblings 220  
 Simonian approach information 146  
 simulation 202  
 skew distribution 136, 158  
 skew phenomena 141, 158  
 small and medium-sized firms 51  
 social network 147  
 software engineering 227  
 SomeItemsShipped 197  
 soundness 202  
 source goods 170  
 source trustworthiness 246  
 sourcing 94  
 spam 322  
 specialized Investment 48, 59  
 speed 27  
 spim 323

StartPeriodicRep 184  
 startup stage 156  
 statistical-variable 202  
 StockStillSufficient 197  
 storage 113  
 strategic business alliance 95  
 strategic grants and discovery grants 192  
 strategic planning 143  
 strategic policy 142  
 submission 26  
 submitOrder 180  
 submitShippingNotice 181  
 SufficientInventory 197  
 SufficientStock 197  
 supplier application 29  
 supplier data 29  
 supplier responsiveness 101  
 supply chain integration 99  
 supply chain management (SCM) 101  
 supply complexity (SC) 93, 104, 106  
 supply finished goods 172  
 supply importance 93, 104  
 supply market dynamism (SMD) 97, 104  
 support techniques 236  
 survey methodology 38  
 SWOT 38  
 systems abuse 257

## T

tagging 335  
 TAM 307, 317  
 ttangible (property-based) 74  
 target technology 310  
 technical knowledge 49  
 technical solution 325  
 technical standard 333  
 technological opportunism 46  
 technology acceptance model (TAM)  
     307, 324  
 technology barrier 101  
 telecommunication network 75  
 temperature regulation 208  
 theoretical adequacy 202  
 time-related structure 73  
 time frame analysis 266  
 timer 183

touching 174  
 transaction-specific investment 3  
 transaction cost economics 2, 6  
 transaction overview 24  
 typology 202

## U

U-context 237, 250  
 UCM level 186  
 UCM model 167, 180, 186  
 UCM notation 183  
 UCM path 186  
 UDDI 8  
 UML deployment diagram 182  
 unified modeling language (UML) 20  
 unstructured 60  
 upgrading 297  
 upload speed 207, 219  
 URN model 167  
 use case map (UCM) 166  
 user acceptance 60  
 user requirements notation (URN)  
     165, 166, 189

## V

ValidOrder 197  
 value 94, 212, 229  
 value chain 87  
 value network 68, 80  
 variables (factors) 121  
 variance maximizing (Varimax) 121  
 VDA (German Association of the Automotive Industry) 33  
 vertical market portals (vortals) 20

## W

“we” phase 155, 156  
 W-context 237, 250  
 wants 204, 221  
 WAP 79  
 Warehouse-Manufacturer 181  
 WarehouseLeft 197  
 Web-based e-procurement 97  
 Web-based marketing channels 60  
 Web-ED 27  
 Web-EDI 27, 31



- Web-EDI portal 32
- Web-EDI server 32
- Web-EDI software 33
- Web-electronic data interchange (EDI) 18
- Web service 234
- Web service development 14
- Web service personalization 241
- World Wide Web Consortium (W3C) 331
- WS-I (Web services interoperability) 167
- WSDL Web service definition 179
- WSI Internet 138

## **X**

- XML 32, 349