

# Index

- Abstraction, 65–66
- Accessibility, 115
- Activity-based view, 212
- Additive manufacturing, 94–95, 206
- Advanced persistent threat (APT), 304–305
- Airbnb, 168
- AirDna, 179
- Alibaba, 175–176
- Amazon, 169–170, 175–176
- American Institute of Certified Public Accountants (AICPA), 318
- Apple Car, 174
- Artificial intelligence (AI), 44, 86, 195, 206, 214
  - applications, 245–246
  - conflicts in artificial intelligence context, 50–51
- Asynosis, 110–111
- Attack, 290–291
- Attention-based view, 212
- Augmented reality (AR), 5, 189–190
- Authenticity, 48–49, 294
- Autonomous Robots, 5
- Availability, 294
- Avoidance, 181
  - conflict culture, 231
- Big Data (BD), 6, 206, 214, 245–246
  - analytics, 44
- Blockchain, 6–7
  - advantages, 13–14
  - applications, 12–13
  - applications in logistics services, 33–34
  - in business cybersecurity, 296–297
  - effects in production and planning, 13
    - nudging and sludge on production and planning through, 16–19
    - technologies, 11–12, 245–246
    - types, 12
- Boundary Theory, 71
- Breach, 291
- Business(es), 167–169
  - conflict, 156–157
  - conflict in postpandemic period, 177–182
  - cyber security in, 154–155
  - digital conflict in, 157–159
  - digital sustainability in, 243–244
  - digitalization, 151, 153–154
  - digitization concept, 263–264
  - infrastructure, 147–149
  - intelligence, 189–190
  - processes, 149–151
  - strategies, 314–322
  - sustainability in, 265
- Cambridge Analytica, 174
- Capability Maturity Model Integration program (CMMI program), 318
- Center for Creative Leadership (CCL), 117
- Change management, 87, 100
- Channel conflict, 46
  - offline, 46–48
  - online, 46–48
- Chief data officer (CDO), 322
- Chief information officer (CIO), 322
- Chief Information Security Officer (CISO), 289, 322
- Chief risk officer (CRO), 322
- Clorox, 179

- Cloud computing (CC), 4–5, 44, 114–115, 189–190, 206, 214, 245–246
- Cloud-based applications, 315
- Coercion method, 180–181
- Collaboration, 180
- Commercial cooperation, 26
- Communication deficiencies, 69
- Competition, 176–177
- Competitive conflict methods, 231–232
- Compromising, 181
- Computer aided drawing (CAD), 315
- Computer aided facilities management (CAFM), 315
- Computer aided manufacturing (CAM), 315
- Confidentiality, 294
- Conflict(s), 64
  - in artificial intelligence context, 50–51
  - business infrastructure, 156–157
  - culture, 231
  - description, 67–68
  - in digital organizations, 227–230
  - in digital transformation, 116–120
  - in digitalization of procurement, 97–101
  - in influencer marketing context, 48–50
  - of interests, 173–174
  - management in digital organizations, 230–232
  - sources, 69–71
  - strategies, 177–182
- Conflicting businesses
  - conflict strategies and principles of conflict for businesses in postpandemic period, 177–182
  - network of business in digital world, 170–171
  - sources of conflict for digital businesses, 171–177
- Consensus, 296
- Consortium blockchain, 12
- Control Objectives for Information and Related Technology (COBIT), 318
- Cooperative conflict culture, 231
- Covert marketing, 55
- COVID-19, 27–28, 33
  - collar change of employees during, 135–136
  - lockdowns, 56
  - pandemic, 45–47, 74, 78, 109, 188, 268
- Critical infrastructure (CI), 288
- Cross-site scripting attack (XSS attack), 304–305
- Customer capital, 282–283
- Cyber business management, 281–282
  - blockchain technology in business cybersecurity, 296–297
  - information security, 284–286
  - knowledge management capabilities, 283–284
  - managing and planning, 286–287
  - tacit knowledge management, 282–283
- Cyber critical infrastructure, 293–296
- Cyber networks, 171
- Cyber risk management, 290
- Cyber systems, 171, 293–294
- Cyber-attacks, 129–130
- Cyber-collar employees, 131
- Cyber-defense technologies, 317–318
- Cyber-physical systems (CPSs), 5, 206, 282
  - protection, 293–296
- Cyberattack, 304, 306, 311, 314
- Cyberattackers, 305
- Cyberinfrastructure, 282
- Cybersecurity (CS), 35–36, 114, 116, 281–282, 314, 322
  - in business infrastructure, 154–155
  - risks management, 287–293
- Cyberspace, 304–314
- Cybersystems, 295–296
- Cyberwarfare, 304–314
  - issues, 129

- Dark side of digitalization in terms of organizational behavior, 226–227
- Data Analytics, 6
- Data privacy conflicts, 53–54
- Data security in production and planning, 9–11
  - with blockchain technology, 14–15
  - detecting insider threats, 11
  - identify data, 9
  - restricting access to sensitive information, 10–11
  - risk assessment for third party software, 11
- Data transparency, 13–14
- Databases, 315
- Decisions, participating in, 70
- Demassization, 110–111
- Denial-of-service (DoS), 304–305
- Digital age technologies, 259–260
- Digital assets, 192–193
- Digital bank accounts, 315
- Digital business
  - conflicts among sectors, 194–200
  - sources of conflict for, 171–177
- Digital business strategy (DBS), 267
  - benefits, 271–272
  - definition and scope of, 265–268
  - dimensions, 268–269
  - features, 270–271
- Digital communication, 128
- Digital conflicts. *See also* Channel conflict, 128, 224–225
  - in business infrastructure, 157–159
  - in HRM, 128–130
  - in logistics, 34–36
- Digital divide, 195
- Digital economic approach, 248–249
- Digital economy, 189, 192
- Digital ecosystems, 75
- Digital era, 244
- Digital gap, 44
- Digital health, 75
- Digital industries, 192
- Digital innovations, 108–109, 264
- Digital marketing, 43, 51–52
  - environmental conflicts and, 51–52
  - ethical conflicts and, 52–56
- Digital maturity, 111–112, 114
- Digital natives, 197
- Digital organizational culture, 264
- Digital organizations
  - conflict management in, 230–232
  - conflicts in, 227–230
- Digital platforms, 75
- Digital products, 194
- Digital revolution, 44
- Digital services, 194
- Digital supply chain, 28–32
  - effect of industry 4.0 on supply chain, 29–32
- Digital sustainability, 242
  - in businesses, 243–244, 248
  - by countries, 251–252
  - and E-commerce, 248–250
  - positive impacts of digital sustainability on businesses, 250–251
  - in sectors, 252–254
- Digital Sustainability Index, 252
- Digital technologies, 108–109, 189, 191, 196–197, 212, 216, 223–226, 263–264
- Digital tools, 245–246
- Digital tourism, 74–75
- Digital transformation, 27–29, 108–109, 153, 168–169, 212, 216, 261, 264
  - adaptation of enterprises to, 76–78
  - benefits, 206
  - changing consumer behavior, 78
  - conflicts in, 116–120
  - effects of pandemic on, 75–78
  - in human resources management, 132–133
  - scope, 111–120
- Digital Transformation Initiative (DTI), 187–188
- Digital usage, 192–193
- Digital workers, 192–193
- Digitality, 109–110

- Digitalization, 64, 108–109, 119–120, 151, 153, 167–168, 171, 187–189, 245–246, 261, 264
  - advantages of, 190–191
  - of business processes, 153–154
  - conflict arising from digitalization of business processes, 196–200
  - conflict arising from digitalization of value-chain activities, 196–197
  - conflicts in digitalization of procurement, 97–101
  - conflicts stemming from digitalization gap, 43–46
  - dark side of digitalization in terms of organizational behavior, 226–227
  - effect of digitalization on sectors, 192–194
  - importance, 224
  - industry 4.0, 3–4
  - industry 4.0, information technology, and human resources information systems on effect of, 130–132
  - information technologies in production and planning management, 7–8
  - organizational benefits and importance, 225–226
  - of production and planning, 3–8
- Digitization, 2, 114, 206
  - of HR processes, 133
- Direct harm, 315–316
- Distributed-denial-of-service attack (DDoS attack), 304–305
- Distributive negotiations, 181–182
- Dominant conflict culture, 231
- Dynamic capabilities view, 211
- E-advertise, 194
- E-commerce, 248–250
- E-content, 194
- E-entertain, 194
- E-mails, 315
  - marketing, 51–52
- E-procurement, 97, 100–101
- E-retail, 194
- E-transaction, 194
- Economic liberalization policies, 26
- Economic system, 171
- Ecosystems, 260
- Electronic bill of lading (EBL), 34
- Electronic Commerce, 242
- Electronic Data Interchange (EDI), 7, 32
- Electronic document management system (EDMS), 315
- Electronic fund transfer (EFT), 249–250
- Electronic health records (EHR), 114
- Electronic monitoring, 153, 224–225
- Endpoint Detection and Response (EDR), 317–318
- Engineering systems, 293
- Enterprise asset management (EAM), 315
- Enterprise resource planning (ERP), 7, 315
- Environmental conflicts, 51–52
- Ethical conflicts, 52–56
- Excessive competition, 176–177
- Expedia, 174
- Facility administration and maintenance information system (FAMIS), 315
- Fifth Industrial Revolution. *See* Industry 5.0
- Finality, 296
- Financial services sector, 194
- FinTech, 194
- Food marketing, 55–56
- Ford, 174
- General Data Protection Regulation (GDPR), 318
- Glad Press' Seal, 179
- Global digitalization initiatives, 86–87

- Globalization, 259–260
  - of supply chain connections, 26
- Green marketing, 51
- Hacktivism, 312–313
- Harm, 315–316
- Healthcare, 193–194
- Henn-na Hotel, 176
- High-intensity conflict, 231–232
- Human capital, 282–283
- Human resources (HR), 128, 229
  - conflict management issues, 133–135
  - industry 4.0, information technology, and human resources information systems on effect of, 130–132
  - information systems on digitalization and human resources, 130–132
- Human resources management (HRM), 128
  - digital conflicts in, 128–130
  - digital transformation in, 132–133
  - potential problems, future foresight, and strategic principles after pandemic, 136–138
- Hurricane Irma, 26–27
- Immutability, 296
- Indifference, 66
- Indirect harm, 315–316
- Industrial control systems (ICSs), 293
- Industrial organization (position) approach, 210
- Industry 4.0, 2–4, 26–27
  - applications, 27–28
  - on digitalization and human resources, 130–132
  - impact in production and planning, 8
  - impacts on procurement, 86–87
  - effect of industry 4.0 on supply chain, 29–32
  - integration of industry 4.0 to logistics services, 32–34
  - technologies in production and planning management, 4–7
- Industry 5.0 impacts on procurement, 86–87
- Influencer marketing context, conflicts in, 48–50
- Information, 244–245
  - workers, 74
- Information and communications technology (ICT), 192–193
- Information security (IS), 114–115, 281–282, 284, 286
- Information Systems Audit and Control Association (ISACA), 318
- Information technology (IT), 91, 260–261, 281–282
  - on digitalization and human resources, 130–132
  - in production and planning management, 7–8
  - strategy, 266–267
- Infrastructure as a Service (IaaS), 214
- Innovation, 246
- Inseparability, 66
- Insider threats, 11
- Institution-based view, 212
- Integrative negotiations, 181–182
- Integrity, 115, 294
- Intellectual capital, 282–283
- Inter-business conflicts, 170, 182
- Interbrand, 169
- Interest, differences in, 70–71
- International Business Machines (IBM), 34
- International Organization for Standardization (ISO), 318
- Internationalization, 175
- Internet, 7, 242
- Internet of Things (IoT), 4, 44, 95, 108, 189–190, 206, 213–214, 245–246
- Interplay, 110–111
- Intrusion Detection and Protection Systems (IDS/IPS), 317–318

- Job
  - attitudes of employees, 226
  - autonomy, 227–228
- Key performance indicators (KPIs), 87
- Knowledge economic approach, 248–249
- Knowledge management capabilities, 281–284
- Knowledge sharing, 284
- Knowledge-based view, 211
  
- Lean purchasing, 87
- Legal systems, 171
- Liberalization of commercial activities, 26
- Logistics, 26
  - blockchain applications in logistics services, 33–34
  - digital conflicts in, 34–36
  - integration of industry 4.0 to logistics services, 32–34
  - logistics 4.0, 32–33
- Lose-lose approach, 179–180
- Low-intensity conflicts, 231–232
  
- Man-in-the-middle attack (MitM attack), 304–305
- Managed Detection and Response (MDR), 317–318
- Managerial ability, 269–270
- Market penetration, 174–175
- Marketing, 51
- Matrix construction, 70
- McKinsey Global Institute (MGI), 191–192
- Mediterranean Shipping Company (MSC), 34
- Metaverse project, 168
- Middle-level businesses, 242
- Mobility, 189–190
- Moonlight Maze, 313–314
  
- Nanotechnology (NT), 206
- Network of business in digital world, 170–171
- New communication technologies, 109–111
- New enterprises, 242
- Next Generation Wireless Networks, 245–246
- Nike, 47–48
- Nike ID, 47–48
- Nokia, 169
  
- Offline channel conflicts, 46–48
- Omnichannel marketing, 46–47
- Online advertising targeting children and adolescents, 55–56
- Online channel conflicts, 46–48
- Online shopping, 52
- Online teleconferences, 315
- Openness, 247–248
- Operational capability, 270
- Organizational behavior, dark side of digitalization in terms of, 226–227
- Organizational culture, 231
  
- Passive-aggressive conflict culture, 231
- PayPal, 173
- Permission-less blockchain, 12
- Permissioned blockchain, 12
- Physical function, 293–294
- Planning Software, 8
- Platform as a Service (PaaS), 214
- Power conflict, 227–228
- Predictivity, 101
- Privacy, 115
- Problem-solving, 181
- Process conflicts, 227
- Procter & Gamble (P&G), 26–27, 179
- Procure to pay (P2P), 96
- Procurement
  - benefit perspectives of digital transformation in, 95–97
  - conflicts in digitalization of, 97–101
  - evolution of digital technologies in, 91–95
  - expected impacts of industry 4.0 and industry 5.0 on, 86–87

- process and digital transformation, 87–97
  - supply chain management 5.0 and future directions, 90–91
- Procurement supply chain management (PSM), 86–87, 100
- “Procurement Supply Chain Managers 5.0”, 91
- Production and planning, 2
  - blockchain technologies, 11–12
  - data security in, 9–11
  - digitalization, 3–8
  - impact of industry 4.0 in, 8
  - nudge *vs.* sludge, 2–3, 15–16
- Provenance, 296
- Psychological “maturity”, 111
- Public Key Infrastructure (PKI), 317
- Purchase order (PO), 96
- Purpose, differences in, 70–71
  
- Radio frequency identification (RFID), 6–8
- Relational view, 211
- Relationship conflicts, 227
- Remote work(ing), 45, 135
- Research and development (R&D), 315
- Resource-based view, 210–211
- Resources, scarcity of, 71
- Resources-based approach, 210–211
  - views complementing, 211–212
- Return on investment (ROI), 49–50, 96–97
- Risk
  - assessment and valuation, 292
  - control, 292
  - culture and governance, 292–293
  - identification, 291–292
  - response, 292
- Robotics, 206
- Robotics process automation (RPA), 94
- Role-Based Access Control (RBAC), 317–318
- Safeguards, 290
- SCM/SCP package program, 8
- Sectoral digital business conflicts
  - advantages of digitalization, 190–191
  - conflict arising from digitalization of business processes, 196–200
  - conflict arising from digitalization of value-chain activities, 196–197
  - conflict arising from security of business activities, 200
  - conflict based on consumer expectations, 198–199
  - conflict from increased competition, 197–198
  - conflicts arising from macro-level factors, 195–196
  - effect of digitalization on sectors, 192–194
  - sources, 194–200
- Sectoral systems, 171
- Secure Operating Environment (SOE), 317–318
- Security, 4–5
- Security education, training, and awareness program (SETA program), 320
- Service(s), 64
  - classification, 67
  - description, 64–65
  - effects of pandemic process on service sector, 71–73
  - features, 65–66
  - literature on conflict in, 73–75
  - sector, 193
- Silos, 289
- Simulation, 6
- Small and medium-sized enterprises (SMEs), 44
- Small-scale businesses, 242
- Smart factories, 5
- Smoothing, 181
- Social media, 178, 189–190

- users, 48
- Software as a Service (SaaS), 214
- Sources of conflict for digital
  - businesses, 171–177
- Speed of information sharing, 247
- Strategic cybersecurity management, 319–322
- Strategic management, 207–212
  - approach, 206, 209
  - digital technologies and digital transformation, 212–216
  - effects and conflicts of digital technologies on, 214–216
- Strategic procurement, 88, 90
- Strategic superiority, 171–173
- Strategy content research, 209
- Strategy process research, 209
- Structural capital, 282–283
- Structure–Conduct–Performance paradigm (SCP paradigm), 210
- Sub-ecosystems, 260
- Supervisory Control, and Data Acquisition system (SCADA system), 295–296
- Supply chain, 26
  - effect of industry 4.0 on, 29–32
- Surveillance, 153, 224–225
- Sustainability. *See also* Digital sustainability, 176, 244
  - in business, 265
- Sustainable Development Goal 3 (SDG 3), 75
- Sustainable digital business strategies, 265–270
  - benefits of digital business strategies, 271–272
  - digitalization and digital transformation, 261–264
  - features of digital business strategy, 270–271
- SWOT analysis, 207–208
- System and Organization Controls (SOC), 318
- System Integration, 6
- Tacit information, 282–283
- Tacit knowledge management, 281–283
- Task conflicts, 227
- Team conflict, 228–229
- Teamwork, 70
- Technological conflict, 114–116
- Technology, 108
  - new communication technologies, 109–111
- Tesla, 264
- Third party software, risk assessment for, 11
- Three-dimensional printers (3D printers), 4–6
- 3D printing technology. *See* Additive manufacturing
- Time, 248
- Toys“R”Us, 169–170
- TradeLens platform, 34
- Transparency, 247
- TripAdvisor, 174
- Uber, 174
- Uncertainties, 69
- Unfair competition, 176–177
- User-generated content (UGC), 48
- Value, differences in, 70–71
- Variability, 66
- Venture capital, 246
- Virtual advertisements, 179
- Virtual Desktop Infrastructure system (VDI system), 78
- Virtual market, 178–179
- Virtual reality (VR), 44, 189–190, 206
- Virtual solutions, 78
- Virtualization, 178, 246
- Visibility, 247
- Web 2.0, 48
- Web technologies, 242

- Win-lose approach, 179
- Win-win approach, 179
- Work–family conflict, 74
- Working from home during pandemic,  
71
- World Economic Forum (WEF),  
187–188
- World Wide Web (WWW), 32
- Zero Trust, 290