Index

A
abuse of cookies 265
Active Benefit Realization (ABR) 183
ActiveX controls, 266
ADELIE project 41
Agency for Healthcare Research and Quality’s (AHRQ) 161
Agency Theory 136
agri-food chain 199, 200, 202, 209
agri-food enterprises 203
agri-food industry 198, 199, 200, 202, 203, 206, 207, 209
Agri-Food Industry, 198, v, ix
Agri-food Issues 208
agri-food systems 201, 202, 208, 211
American Institute of Certified Public Accountants (AICPA) 286
asynco 33
atmospherics, brick and mortar 53
atmospherics, Web 53
Australia 79, 80, 81, 93, 94, 96
Australian banking industry 80
authentication methods 266
automated teller machines (ATM) 80, 115, 119, 120
Automated Teller Machines (ATMs) 115, 119
bank perspective 80, 82
bank perspective, switching costs 82
BBBQOnline 286
BecTA report 5
benchmark economic conditions 125
benefits realization methodology (BRM) 181, 182, 183, 184, 185, 186, 187, 188, 189, 197
biometric authentication mechanisms 162
Blackboard VLE 3, 12, 13
blended learning 2, 6, 7, 8, 9, 10, 15, 39, 45, 48, 50, 76, 308, 309, 317, 318
blended learning component 10
Bolivia 116, 123
Bologna Agreement 22
Brazil 119, 120
Brokers 241
buffer overflow 265
Business Continuity Management System (BCMS) 254
business continuity planning (BCP) 249, 254, 257
business customers 80, 81, 82, 86, 90
business environment 233, 234, 235, 237, 238, 239, 241, 243, 262, 263, 269
business functions 235, 236, 238, 247
business intelligence 143, 145, 149, 150, 153, 154, 157
business model 235, 240, 241, 242, 245, 246
business processes 235, 236, 237, 238, 239, 240, 243, 247
Business Processes 247, 275

Copyright © 2011, IGI Global. Copying or distributing in print or electronic forms without written permission of IGI Global is prohibited.
Index

business schools  1, 2, 6, 14, 35, 36, 39, 42, 45, 47, 49, 50
business strategy  186, 190, 200, 283
business studies program  38, 42, 49
business-to-business  79, 80, 81, 82, 83, 85, 86, 192, 193, 194, 246, 282
Business-to-Business electronic business  283
Business-to-Consumer electronic business model  283
business-to-customer transactions  282

C

Caisse des usus et consignations (CDC)  225
candidate management systems (CMS)  157
capability generation  119, 120
carbon emission  214, 215, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226
Carbon Market  231
Carbon Trading  214, 215
career data  145
Cattle Tracing System (CTS)  204
Centre for Educational Research and Innovation (CERI)  23
CERCLA overview  232
CERCLA statute  232
Certification Commission for Health Information Technology (CCHIT)  165
chat  33
China  99, 100, 105, 106, 107, 108, 109, 110, 111, 112, 113
China Development gateway  219
Clean Development Mechanism  231
Clinical Decision Support (CDS)  162, 163
Cloud Computing  252, 260
CO2 emission  214, 217, 223
cognitive architecture  55
cold chain logistics  203, 207, 208
color perception  52, 53, 54, 55, 56, 57, 59, 60, 61, 63, 65, 67, 68, 70, 72, 73, 74, 75, 76, 77
commerce, business-to-business (B2B)  79, 80, 83, 84, 86, 89, 91, 92, 93, 95, 96, 234, iv, viii
commerce, business-to-consumer (B2C)  82, 84, 207, 283, 285, 293
commerce, business-to-government (B2G)  283
commerce, consumer to consumer (C2C)  221, 283
commercial banking  96
Committee of Sponsoring Organizations (COSO)  125, 126, 127, 131, 139, 141
communication system  27
community banks  97, 98, 99, 101, 102, 103, 104, 105, 110
Community Independent Transaction Log (CITL)  225
Computerized Provider Order Entry (CPOE)  163, 165, 169, 176
computer-mediated learning environments  2
Confidentiality, Integrity, and Availability (CIA)  263, 264, 269, 277
Consumer indifference  175
customer lending  99
consumer loan applications  98
content management system  61, 70
Continuity of Care Document (CCD)  163
Control Objectives for Information Technology (COBIT)  254
Copenhagen Climate Change summit  215
Corporate Infrastructure  237
COSO internal control integrated framework system  126
Countermeasures  253
course management systems (CMS)  33, 36
Course Management Systems (CMS)  36
CPA Web Trust  286
Creators  241
cross listing  40
curricula vitae (CV)  144, 145, 148, 150, 151, 152
curriculum  5, 12, 18
customer perspective  80, 81, 82, 86
customer perspective, convenience  80, 82, 86, 88, 89
customer relationship management (CRM)  79, 80, 83, 84, 85, 238, 247, 252, 287, 294
cyber legislation  249, 253, 256, 257
cyberterrorism  264, 277

D

Data Exchange Standards (DES)  225
data integrity  157
data management 143, 154, 157
data mining 145, 157
decision-making process 280, 293
denial of service (DoS) 264, 266, 267
Department for Environment Food and Rural Affairs (DEFRA) 219, 220, 221, 225, 227, 232
Department of Defense (DoD) 175, 178
deterministic matching 156, 158
developed nations 98, 99, 105
developing nations 114, 115, 117, 118, 119, 120, 122, 123, 124
digital divide 120, 175
Digital Futures 216, 230, 231
digital natives 20, 21, 22, 23, 24, 31, 32, 234
digital patient record 164
distance education 38, 41, 51
distance education taxonomy 41
distance education taxonomy, macro-level 41
distance education taxonomy, meso-level 41, 48
distance education taxonomy, micro-level 41
Distance Learning (DL) 36, 49
distance learning (DL) programs 36, 49
Distributors 241
diversity 1, 3, 4, 13, 16, 18
Domain Name System (DNS) 265
dynamic relationship 150

E

Earthworks 223, 227
e-banking 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113
e-banking services 98, 102
e-business approach 234
e-business etiquettes 280, 281, 285, 287
e-business information security 269, 272
e-business management 271, 275
e-business organisation 241, 242, 243
e-Business Process Security Model (eBPSM) 269, 274
e-business security 262, 263, 265, 269, 270, 272, 274
e-business security issues 262, 265
E-business security management 271
e-business society 280
e-business technologies 249, 250, 252, 256, 257
e-business technology applications 249
e-Business Watch 234, 248
e-commerce 53, 56, 57, 58, 75, 77, 198, 207, 215, 216, 221, 222, 227, 228, 229, 230, 232, 279
e-conferencing 287, 288, 289, 290
economic inclusion 121
economic indicators 125, 137
e-culture 280, 283, 284, 285, 289, 290, 295
e-detailing 141
EDI model 242
education model 24, 26, 28, 29, 31
e-ethics 280, 283, 284, 285, 289, 290, 295
e-etiquette 278, 279, 280, 281, 283, 284, 285, 287, 288, 289, 290, 295
e-government 284
EHR adoption 160
e-learning 39, 51, 53, 54
e-learning content 52, 53, 59, 70, 77
e-learning environments 54, 58, 59, 61
e-learning interfaces 53, 54
e-learning platforms 52, 53, 54, 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 68, 69, 70, 71, 72
e-learning Web sites 53, 55, 56, 57, 59, 73
Electronic Animal Identification 203, 204
electronic banking 80
electronic commerce transactions 270
Electronic Data Interchange (EDI) 238, 239, 242, 247, 282, 283, 292
electronic discussion groups 38
electronic finance 97, 111, 112, 113
Electronic Funds Transfers (EFT) 282
electronic medical record (EMR) 164, 165, 168, 169, 177
e-legalities 280, 283, 284, 285, 289, 290, 295
Index

e-loan process 98
e-marketplace 244
e-Media 137
emerging nations 97, viii, v, 98, 99
emotional content 83
energy consumption 214, 215, 216, 217, 220, 221, 225
Enterprise e-business models 283
Enterprise Resource Planning (ERP) 238, 247
enterprise risk management (ERM) 125, v, 126, ix, 127, 128, 129, 130, 134, 135, 136, 138, 139, 140, 141
enterprise wide analytics 157
environmental contributions 220
environmental scanning process 125
Environment Protection Agency (EPA) 232
e-payment 113
e-readiness Issues 208
Escherichia coli 206
e-security 280, 283, 284, 285, 288, 289, 290, 295
e-signature 102
e-societal members 278
e-society 279, 280, 281, 283, 284, 285, 288, 289, 290, 294, 295
Estonian Cyber War 253
ethnic minority 4
ethnocentrism 280, 283
e-transfer 113
e-trust 280, 283, 284, 285, 289, 290, 295
european space for higher education (ESHE) 20, 22, 23, 24, 26
European Union Emission Trading Scheme (EU-ETS) 224, 225, 228, 230
evaluation model 37
e-waste 223, 225, 231
expert systems 157
exploitation of implementation errors 264
extensible markup language (XML) 250, 251, 260, 261
Extensible Markup Language (XML) 260
External Threats 253
Extractors 241

F

face-to-face business 282

face-to-face communication 107
face-to-face contact 86, 89, 91, 92
face-to-face relationships 80, 91, 92
Face-to-face study 37
financial sustainability 116, 118
financial systems approach 116
First Morrill Act (1862) 281
five-stage framework 41
Food for Thought 198, 209
Food security 203
fraudulent financial reporting 126
Functional illiteracy 174

G

Galliers and Sutherland’s Stage of Growth Model 186
Geographic Information Systems (GIS) 204
global access 266
global business environment 209, 239
global culture 279, 284, 290, 295
global data dictionary 150
global emissions 223
global evaluation 30
Globalised markets 202
Global Positioning System (GPS) 204, 205, 208
global warming 214, 218, 220, 223, 228
Grameen Bank 115
Greenhouse Gas (GHG) 216, 223, 224, 226, 232
group-based institutions 117
group-based models 117
group discussion boards 39, 40
group learning 39
groups 37, 38, 39, 40, 42, 43, 48
group submission tool 39

H

hacking 264, 265
harassment 264
Head of the Hive for Cranium 143
healthcare industry 128, 141, 179, 180, 189
Healthcare Information Management Systems Society (HIMSS) 165, 168, 169, 177, 178
healthcare information technology (HIT) 159, 160, 161, 162, 163, 164, 165, 169, 170, 171, 175, 176, 178
Healthcare information technology (HIT) 159
healthcare organizations 179, 180, 181, 184, 185, 186, 187, 188, 189, 190
healthcare providers 179, 180
health information exchange (HIE) 160, 163, 164, 167, 170, 173, 174, 176
Health Insurance Portability and Accountability Act (HIPAA) 174, 254
health-related information 164
heterogeneity 252
Higher Educational Institutions (HEIs) 278, 279, 280, 281, 285, 287, 292
Higher Education Funding Council for England (HEFCE) 4
Higher Education (HE) 37, 39, 47, 48
higher education institutions 1, 2
HIT, implementation of 160, 161, 165, 169
HL7 163, 177
HR departments 145
Human resource management 237
Human Resources (HR) 252
Hypertext Transfer Protocol Secure (HTTPS) 255

I

ICT benefit 27
ICTs benefit development 118
ICT usage 31
impersonation attacks 264
Inbound logistics 236
individual-based MFIs 117, 118
information and communication technologies (ICT) 21, 214, v, 215, 216, x, 217, 219, 221, 222, 223, 224, 225, 226, 229, 230, 231
information and communication technology (ICT) 37
information asymmetry 116
information extraction 151, 152, 158
information privacy 263
information security 262, 263, 265, 266, 267, 269, 271, 272, 273, 274
Information Security Management Systems (ISMS) 254
Information Systems (IS) 233, 238, 262, 263, 264, 269, 271, 273, 274, 275, 276, 277
Information Technology Act 253
Information Technology (IT) 36, 47, 144, 233, 234, 240, 263
information technology (IT) industry 144
Input Suppliers 199
insider attacks 264
integrated global food system 202
Integrity 263, 277
Intercontinental Exchange (ICE) 224
interface consistency 54
interface consistency theory 55
internal control systems 126, 128
Internal Threats 252
international carbon market 224
International Emissions Trading Association (IETA) 224, 227
Internet-based technologies 239, 242, 243, 272
Internet-related security 265
Internet society 278, 279, 280, 283, 284, 285, 288, 290, 295
interpersonal liking 82, 94
Intrusion Detection Systems (IDSs) 265, 266
Intrusion Prevention Systems (IPSs) 265
investment evaluation methodology (IEM) 181, 182, 184, 185, 186, 187, 188, 189, 197
IT benefits 181, 182, 183, 190, 193, 195, 197
IT cost identification 183
IT evaluation 182, 190
IT governance 254
IT investment evaluation 181, 182, 183, 185, 190
IT investment evaluation methodology 181, 182, 183
IT investments 180, 182, 183, 186, 193, 195, 197
IT landscapes 154
Index

IT maturity 181, 184, 185, 186, 187, 188, 189, 190, 193
IT Maturity 183, 186, 197
IT outcomes 183
IT Productivity Paradox 197
IT productivity studies 182
IT professionals 101, 104
IT project failure 183
IT projects 183
IT sabotage 253, 258
IT security planning 254
IT security practitioners 252
IT systems 143, 153, 154, 155
IT team 101

J
job titles 143, 144, 145, 146, 147, 151, 155

K
KMCMS interface 65
knowledge-intensive global system 118
Knowledge Management and Content Management System (KMCMS) 61
Kyoto Protocol 223, 231, 232

L
Land-Grant Acts 281
LangBlog 33
Lawrence Berkeley National Laboratory (LBNL) 215, 216, 220
Lean Product Development System (LPDS) 169
learning community 33
learning management system (LMS) 33
life-cycle energy consumption 216
lifelong learners 54
living standards 115
loan-delivery methods 117
Local Area Network (LAN): 247
LOGIC model 40, 41, 43, 47, 51
Logistics 199, 207

M
machine intelligence 145, 151
maintain on-going support 127
malicious code 251, 266, 267
malicious file 264
malware 264, 266, 267
manufacturing industry 199, 236
market expansion 126
Marketing and sales 236
marketing, business to business (B2B) 96
market penetration 126
market trends 126
massification 18
master data management (MDM) 154, 158
matching software 158
m-banking 100, 104, 110
m-banking services 98
Meat and Livestock Australia (MLA) 205
medical illiteracy 174
memorization 52, 53, 54, 55, 56, 57, 59, 61, 64, 65, 67, 68, 69, 70, 72, 73
MFI, female clients of 118
MiCARE 175
microfinance 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124
microfinance, institutionalist approach 116
microfinance institutions (MFI) 115, 116, 117, 118, 121, 122, 123
microfinance, welfarist approach 116
mobile banking (m-banking) 98, 110, 113, 120
modern human society 209
Moodle VLE 3, 33
Moore, Gordon 214
Moore’s Law 214
mortgage lending 99

N
National Commission on Fraudulent Financial Reporting 126, 141
National Institute of Science and Technology (NIST) 252
National Livestock Identification for Dairy (NLID) 204
National Livestock Identification Scheme (NLIS) 205
Net-Enhanced Organisation (NEO) 271
net generation 22
non-governmental organisations (NGO) 115
O
one-dimensional perspective 7
online learning environments 5
online teaching 5
online trust 54
Organisation for Economic Cooperation and Development (OECD) 23
organizational governance 125
OSI Seven Layer Model 232
Outbound logistics 236

P
packet sniffing 265
pedagogy 36, 38, 39, 45, 49
perimeter paradigm 269
Perimeter Security: 277
personal health records (PHRs) 159, 161, 162, 164, 170, 171, 172, 173, 174, 175, 176, 177, 178
personalisation 5, 14, 18
pharmaceutical industry 126
phishing 265
PhRMA conduct code 129, 141
Picasso tool 33
point of sale (POS) terminals 119, 120
point of sale terminals (PoS) 115
Point of Sale terminals (PoS) 115
Policy Framework for Interpreting Risk in E-business Security (PFIRES) 271, 272, 274
political or industrial net espionage 265
polytechnics 3, 4
Portal Value Network (PVN) 239, 240, 241, 247
Porter Five Forces model 236
Porter Value Chain model 236
poverty alleviation 115, 116, 117, 120
poverty reduction approach 116
PowerPoint presentations 62
Precision Farming (PF) 204
predictive analytics 158
PriceWaterHouseCooper 224, 228
PriceWaterhouseCoopers 180
probabilistic matching 156, 158
process-based security approach 272
Processors 199
Procurement 237
Producers 199
Product and technology development 237
productivity paradox 237
professional categories 145, 146, 147, 150, 151
proxy 117
Public Interest Energy Research (PIER) 216, 227

R
Radio Frequency Identification Device (RFID) 198, 205, 207, 208
readability 55
recruitment 144, 145, 149
recruitment industry 145, 154
Regional Health Information Organization (RHIO) 164
relationship marketing 79, 80, 82, 83, 84, 85, 86, 89, 91, 92, 93, 94, 95, 96
Relationship marketing 83, 84, 85, 93, 94, 95
remote monitoring 161, 163, 190
Remote Sensing (RS) 204
Reporting 162
repository 172
Response 162
Retailers 199
RFID logistics tracking 198
rich site summary (RSS) 29, 33
risk management 10, 126, 127, 129, 134, 137, 138, 139, 140, 203, 204, 255, 300, 323
risk mitigation process 141
rule-based alerts 163
rural areas 97, 98, 99, 103, 104, 110, 113, 114, viii, v, 115, 119, 120, 121

S
Salmonella enteritidis 206
Sarbanes-Oxley (SOX) Act 126, 128, 141, 254
Second Morrill Act (1890) 281
Security Assertion Markup Language (SAML) 255
security standards 249, 255, 256, 257, 258
self-service delivery 80
semantic notions 143
semantics 145
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>service delivery</td>
</tr>
<tr>
<td>service delivery satisfaction</td>
</tr>
<tr>
<td>service-oriented architecture (SOA)</td>
</tr>
<tr>
<td>services marketing</td>
</tr>
<tr>
<td>Service Suppliers</td>
</tr>
<tr>
<td>Silicon Valley Toxics Coalition (SVTC)</td>
</tr>
<tr>
<td>Simple Object Access Protocol (SOAP)</td>
</tr>
<tr>
<td>small and medium sized enterprises (SME)</td>
</tr>
<tr>
<td>small business lending</td>
</tr>
<tr>
<td>SMiShing</td>
</tr>
<tr>
<td>social aspects</td>
</tr>
<tr>
<td>social development</td>
</tr>
<tr>
<td>social engineering</td>
</tr>
<tr>
<td>social inclusion</td>
</tr>
<tr>
<td>social network platform</td>
</tr>
<tr>
<td>social-organisational innovation</td>
</tr>
<tr>
<td>sociotechnical systems theory (STS)</td>
</tr>
<tr>
<td>software application</td>
</tr>
<tr>
<td>Spain</td>
</tr>
<tr>
<td>spamming</td>
</tr>
<tr>
<td>spoofing</td>
</tr>
<tr>
<td>SQL injection</td>
</tr>
<tr>
<td>staffing industry</td>
</tr>
<tr>
<td>Stimuli-Organism-Response (SOR) model</td>
</tr>
<tr>
<td>strategic planning</td>
</tr>
<tr>
<td>strengths, weaknesses, opportunities, threats (SWOT) analysis</td>
</tr>
<tr>
<td>Structured Query Language (SQL)</td>
</tr>
<tr>
<td>student learning experiences</td>
</tr>
<tr>
<td>students</td>
</tr>
<tr>
<td>students, non-traditional</td>
</tr>
<tr>
<td>supply chain</td>
</tr>
<tr>
<td>Supply Chain Management (SCM)</td>
</tr>
<tr>
<td>Supply Chain Management (SCM) System</td>
</tr>
<tr>
<td>Supported Open Learning (SOL)</td>
</tr>
<tr>
<td>supported open learning (SOL) programs</td>
</tr>
<tr>
<td>Surveillance</td>
</tr>
<tr>
<td>sustainable production</td>
</tr>
<tr>
<td>systematic application</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>tautology</td>
</tr>
<tr>
<td>taxonomies</td>
</tr>
<tr>
<td>taxonomy</td>
</tr>
<tr>
<td>teaching and learning champions (TLC)</td>
</tr>
<tr>
<td>Teaching and Learning Champions’ (TLC)</td>
</tr>
<tr>
<td>teaching-learning process</td>
</tr>
<tr>
<td>teaching-learning processes</td>
</tr>
<tr>
<td>teaching-learning system</td>
</tr>
<tr>
<td>teaching plan</td>
</tr>
<tr>
<td>TEAM concept</td>
</tr>
<tr>
<td>Telecommunication channels</td>
</tr>
<tr>
<td>The Tipping Point</td>
</tr>
<tr>
<td>Traders</td>
</tr>
<tr>
<td>Traditionally White Institutions (TWIs)</td>
</tr>
<tr>
<td>training</td>
</tr>
<tr>
<td>transaction marketing</td>
</tr>
<tr>
<td>transaction-related issues</td>
</tr>
<tr>
<td>TREN system</td>
</tr>
<tr>
<td>Trojans</td>
</tr>
<tr>
<td>TRUSTe</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom (UK)</td>
</tr>
<tr>
<td>United Nations Population Fund (UNPF)</td>
</tr>
<tr>
<td>United States National Animal Identification Plan (USAIP)</td>
</tr>
<tr>
<td>Universal Description, Discovery and Integration (UDDI)</td>
</tr>
<tr>
<td>university education</td>
</tr>
<tr>
<td>university education, advanced model</td>
</tr>
<tr>
<td>university education, evolved model</td>
</tr>
<tr>
<td>university education, initiation model</td>
</tr>
<tr>
<td>university education, standard model</td>
</tr>
<tr>
<td>Unmanned Aerial Vehicle (UAV)</td>
</tr>
<tr>
<td>unsupervised information extraction (UIE)</td>
</tr>
</tbody>
</table>
urban areas  98, 99, 104, 105, 115, 119
U.S. Cyber Consequences Unit  253
U.S. Environmental Protection Agency  219
user-students  21
U.S. Officer of Inspector General (OIG)  129, 142

V
value  86, 89, 96
value-adding component  202
value chain  235, 236, 237, 238, 239, 240, 241, 243, 247
Value Chain  236, 248
value system  238
Variable Rate Technologies (VRT)  204
Verification  162
Veterans Administration (VA)  175
video sales representative messaging  141
village banks  117
Virtual Business (v-business)  240
virtual campus  26, 28, 30
virtual classrooms  22, 28, 29, 30
virtual learning  22, 24, 27, 31, 32, 33
virtual learning environments (VLE)  2, 3, 9, 11, 15, 19, 33, 36, 37, 38, 39, 40, 41, 47, 48, 50, 51
Virtual Learning Environments (VLEs)  36, 38
Virtual Learning Environment (VLE)  39, 41, 51
virtual networks  35
virtual university  30, 31
vishing  265
visual function  56

W
Waste Electronic and Electrical Equipment (WEEE)  215, 222, 223
Web 2.0  13, 19, 249, 250, 251, 255, 256, 257, 258, 259, 260
Web 3.0  260
Web-based applications  255, 261, 270, 271, 273
Web-based postgraduate  35
Web-based survey  100
WebCT forum  38, 44, 47
Web environments  53
Web interfaces  53, 55, 56, 73
Web servers  218
Web services  249, 250, 251, 252, 255, 256, 257, 259, 261
Web Services Description Language (WSDL)  255, 259, 260, 261
Web Services Security (WSS or WS-Security)  255, 256
Wholesalers/Distributors  199
Wide Area Network (WAN)  248
widening participation  19
wikis  34
wireless devices  98
work-flow efficiency  179, 180
WS-S specifications  249

Y
Yahoo  143
Yield Monitoring & Mapping  204
YouTube channel  30