Index

A
actor 73
Actor 88
adaptability 44
Adaptive Learning Levels (ALLs) 81
affective learning 59
Agile methods 149
Animated Pedagogical Agents 80
approach-avoidance 60
aspect-oriented programming (AOP) 130
Augmented Reality (AR) 321
authentic learning 13, 15
avatars 78, 80
cognitive learning 59
collaboration 4
Collaborative Learning 88
collaborative learning groups 77
communication 4
communication behaviours 60
communities-of-practice 3, 6
Community interaction 7
community reflection 4
Computer and Communication Networks 261
Computer Assisted Instruction (CAI) 166
Computer Assisted Personal Interviewing (CAPI) 82, 84
Computer Vision 261
concept map 49
gratulatory message 49
Contacts model 73
content-context modeling service 12
content filtering 9
context-aware learning 53
contextual collaboration 217
contextualised learning 7, 11
course scenario 14
CT-based education 128

B
background application 222
blended learning 2
blended learning scenario 6
blog 301
bonding process 76
Brainstorming 152
c
Campus-wide Wireless LAN 260
carbon monoxide (CO) 200
cell ID 222
Circle of Friends 73
codeployment methodologies 147
co-design 147
co-design process 154

dependency (Dy) 83
desktop PCs 2
development architecture 113
device context 52
discovery protocols 20, 22, 39

E
Ecological Cognition 88
Ecological Cognition Framework 73, 88
Index

Ecological Cognition Framework (ECF) 72, 83
Ecological Cognitive Learning Theory 81, 88
e-Government Interoperability Framework (e-GIF) 82
e-learning 44
E-learning Communities 91
E-Learning System 88
Embedded Systems 261
emotion recognition agents (ERAs) 79
encouragement process 77
endparallel 114
engineering paradox 148
experiential learning 76, 88

F

face-to-face survey 82, 84
facial affect recognition (FAR) 79

G

Generalised Immediacy Scale (GIS) 62
Graphical Partitioning Model (GPM) 244
graphical user interface (GUI) 235
grip 325, 327

H

health and safety (H&S) 14
Human-Computer Interaction (HCI) 130
human learning 128
hypermedia 128

I

ice-breaker 76
ICT resources 112
immediacy behaviours 61
Implementation 152
Information System 88
ingratiation process 76
instant messaging (IM) 68
interaction process 77
interest (It) 83

J

JavaScript 114, 168, 170

K

kinesthetic movement 59

L

larger-scale adaptation 1
learning communities 5, 12, 91
learning content 5
learning content adaptation 9
Learning content consumption 5
Learning management systems (LMS) 275
Learning Management Systems (LMS) 21, 67, 182
learning networks 9
Learning Objects (LOs) 22, 91
Learning organisation 5
learning resource discovery 22
Learning Theories 45
learning workflows 42, 43, 48, 49, 50, 51, 52, 53
linear relationship 61
LMS ecosystems 183
LMS Virtual Classroom 182
Location Based Service 314
logic-based knowledge 20
low-tech prototyping 200

M

matchmaking process 20, 25, 32, 34
memory capacity 21
message-writing 62
m-learning 44, 53
Mobile Applications 182
mobile communication technologies 57
mobile computers 22
mobile devices 5, 42, 49, 58, 309
mobile learning 21, 27, 36, 37, 39, 40, 41, 42
Mobile learning applications 182
mobile learning (m-learning) 42
Mobile learning or mobile computer supported collaborative learning (MCSCL) 232
Mobile Message Passing Interface (MMPI) 113
mobile parallel computation 115
mobile phone 301
mobile phones  174
mobile scenarios  21
mobile technologies  197
mobile technology  43, 44
Model Driven Architecture (MDA)  130
Model Driven Engineering (MDE)  130
modular server architecture  9
MOO-based virtual environment  47
multi-faceted devices  2
multi-platform e-learning software  1, 3, 9, 57
multi-platform learning  117
multi-platform learning system  6
museum exhibition  324

N
Near Field Communications  309
networks of practice  73, 88
Nonverbal Immediacy Behaviours (NIB)  63
Nonverbal Immediacy Behaviours (NIB) instrument  63

O
OOC communication  61, 88
OOC text messaging  58, 68
Open Service Interface Definitions (OSIDs)  186
out-of-class (OOC) communication  58

P
PAIGE  78
Participatory Design (PD)  201
PASS approach  78
pattern recognition  59
pedagogical model  42
Pedagogical scenarios  10
perceived usefulness (PU)  282
personal digital assistants (PDA)  44, 130, 165
Persuasive architecture  79
pervasive learning  43
p-learning  43, 53
Portable Affect Recognition Learning Environment (PARLE)  79
Portable Assistant for Intelligently Guided Education (PAIGE)  72, 78, 84
proxy tool  187

Q
QR codes  309

R
RAFT project  2
real-world context  7
real-world scenarios  3
relations context  8
Remote Method Invocation (RMI)  115
RFID-enabled mobile devices  22
RFID systems  25, 27
RFID tag  22, 25, 26
RF-ID technology  321
RMIT  278
run-time environment (RTE)  168

S
self-learning environment  179
semantic-based Bluetooth/RFID  20, 39
ser Interface Description Language (UIDL),  96
Service Oriented Architecture (SOA)  92, 185
Short Message Service (SMS)  273
Situated learning  180
smartboards  2
smart phones  44
social awareness  301
socio-constructivist  47
socio-constructivist learning  47
Socio-Constructivist Learning Theory  45
software architecture  11
speech affect recognition (SAR)  79
Stop-Motion Animation and Reviewing Tool (SMART)  229
student-instructor relationship  57
student learning  57
student-to-student interaction  260
sub-tree  171
supporting learning  57
system design  42, 170

T
teaching assistants (TAs)  268
technical user  10
Technology Acceptance Model (TAM)  280
technology-mediated learning environment  45
Index

Tertiary stakeholders 151
Text messaging 62
Theory of Planned Behaviour (TPB) 280
training task 78
Trigger 278
Trigger prototype 275, 282

U
ubiquitous 3
ubiquitous computing 42
ubiquitous e-learning systems 72, 84
ubiquitous learning 43
ubiquitous learning scenarios 3
ubiquitous learning tools 43
u-learning 43, 44, 53
u-learning principles 48
Universally Unique Identifier (UUID) 114
user interfaces (UIs) 91

V
Virtual Community 88
Virtual Environments for Community and Commerce (VECC) 73
Virtual Worlds 182
voice-over-IP (VOIP) 68
Voice Track-back system 324

W
Web based Learning Management Systems 184
web-based learning management system (WebCT) 47
Web-based server 168
Web-based training (WBT) 170
workflow messaging rules 52

Z
Zone of Proximal Development (ZPD) 78, 81