Index

Symbols
21st century skills 1402
3-D digital environment 1187
3D educational game development process 331
4C/ID-model 1143

A
abstract class, AbsGamePanel 513
abstract class, AbsSprite 514
abstract conceptualization (AC) stage 459, 461
accretion 1115
action buttons 1457
active and reflective learning, and video games 496
active experimentation (AE) stage 459
activity theory 690
actual mechanics 1277
adaptation 1275
adaptive opponent strategies 1478
ADDIE model 1189
adolescents, and video games 345
adolescent video games, emergent themes 349
adults explore skills 1205
advergames, in relation to childhood obesity 358
advertising, how it works 363
advertising to children, historical interest in 359
agency 673, 674, 676, 679, 680, 682, 683, 684, 685, 686, 687, 688, 690, 691, 692, 696
agent-based simulations 1477
algebraic functional machines, and video games 555
Allakhazam 795
America’s Army: Rise of a Soldier, video game 621
American Revolution 1461
amygdala, definition of 879
Anarchy Online 848
animating the single object 511
anti-social groups 1324
antibiotics 1277
Anytown 1186
AR games for education, implication of 91
arousal, and video games 884
assessment, the grammar of 579
Astroversity and Debating the Evidence 90
Attention Deficit Disorder (ADD) 393
attention deficit hyperactivity (ADHD) 879
attention distraction games 394
audience, COTS GBL 188
augmented reality (AR) 1460, 1463
augmented reality (AR) games 83
augmented reality (AR) games for education 1463
augmented reality games, definition of 83
augmented reality games for learning, review of 86
authenticity 1473
authentic learning 187, 1044
authentic learning environments, characteristics of 747

B
“Back” buttons 1457
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backyard research</td>
<td>639</td>
</tr>
<tr>
<td>Battle of Lexington</td>
<td>1461, 1464</td>
</tr>
<tr>
<td>Bodily interfaces</td>
<td>112</td>
</tr>
<tr>
<td>Bodily interfaces, aspects of</td>
<td>117</td>
</tr>
<tr>
<td>Breakout, video game</td>
<td>509, 518</td>
</tr>
<tr>
<td>Breast Cancer Detective Game</td>
<td>395</td>
</tr>
<tr>
<td>Broadband Regulation and Modernization (BRM) Bill</td>
<td>493</td>
</tr>
<tr>
<td>Broadcast media</td>
<td>1292</td>
</tr>
<tr>
<td>Bronkie the Bronchiasaurus, video game for children with asthma</td>
<td>392</td>
</tr>
<tr>
<td>Case-Based Reasoning (CBR)</td>
<td>332</td>
</tr>
<tr>
<td>Case study, Alien Language</td>
<td>1386</td>
</tr>
<tr>
<td>Case study, Slime Forest</td>
<td>1383</td>
</tr>
<tr>
<td>Cell phones</td>
<td>1442</td>
</tr>
<tr>
<td>Centers for Disease Control and Prevention (CDC)</td>
<td>372</td>
</tr>
<tr>
<td>Character</td>
<td>1219</td>
</tr>
<tr>
<td>Character attachment (CA)</td>
<td>593</td>
</tr>
<tr>
<td>Character attachment, in role-playing games</td>
<td>597</td>
</tr>
<tr>
<td>Childhood obesity, and video game marketing</td>
<td>358</td>
</tr>
<tr>
<td>Children’s Advertising Review Unit (CARU)</td>
<td>365, 366</td>
</tr>
<tr>
<td>Chinese Bell, mini game</td>
<td>1043</td>
</tr>
<tr>
<td>Chinese communist government</td>
<td>1323</td>
</tr>
<tr>
<td>Chinese Language Mini-Game project</td>
<td>1042</td>
</tr>
<tr>
<td>Cilati</td>
<td>1225</td>
</tr>
<tr>
<td>Circumplex model</td>
<td>689</td>
</tr>
<tr>
<td>Citizenship education, developmental approach</td>
<td>811</td>
</tr>
<tr>
<td>Civic participation, on a global scale</td>
<td>240</td>
</tr>
<tr>
<td>Civilization, strategy game</td>
<td>1058</td>
</tr>
<tr>
<td>Civilization III, historical strategy game</td>
<td>200, 203</td>
</tr>
<tr>
<td>Claims of games, identifying problems</td>
<td>38</td>
</tr>
<tr>
<td>Class, as role</td>
<td>852</td>
</tr>
<tr>
<td>Classifier systems</td>
<td>686</td>
</tr>
<tr>
<td>Class observation schedule (COS)</td>
<td>1430</td>
</tr>
<tr>
<td>ClassSim software</td>
<td>318</td>
</tr>
<tr>
<td>ClassSim software, key ideas in</td>
<td>318</td>
</tr>
<tr>
<td>Coding guidelines</td>
<td>865</td>
</tr>
<tr>
<td>Cognitive</td>
<td>1402</td>
</tr>
<tr>
<td>Cognitive apprenticeship</td>
<td>1130</td>
</tr>
<tr>
<td>Cognitive growth</td>
<td>1047</td>
</tr>
<tr>
<td>Cognitive learning</td>
<td>1152</td>
</tr>
<tr>
<td>Cognitive load, in learning</td>
<td>722</td>
</tr>
<tr>
<td>Cognitive load, methods for evaluating</td>
<td>729</td>
</tr>
<tr>
<td>Cognitive load factors, empirical studies of</td>
<td>727</td>
</tr>
<tr>
<td>Cognitive load theory</td>
<td>1143</td>
</tr>
<tr>
<td>Cognitive load theory (CLT)</td>
<td>1148</td>
</tr>
<tr>
<td>Cognitive models</td>
<td>672, 674, 675, 677, 678, 682, 684, 685, 686, 687, 688, 693, 696</td>
</tr>
<tr>
<td>Cognitive variables, and violent video games</td>
<td>883</td>
</tr>
<tr>
<td>Cognitive Walkthrough</td>
<td>1453</td>
</tr>
<tr>
<td>Collaboration</td>
<td>1468</td>
</tr>
<tr>
<td>Collaborative construction of knowledge, support for</td>
<td>322</td>
</tr>
<tr>
<td>Collaborative learning</td>
<td>187, 713, 1464</td>
</tr>
<tr>
<td>College classroom, game-based learning</td>
<td>1427</td>
</tr>
<tr>
<td>Command, Control, Communication, Intelligence, Surveillance, and Reconnaissance (C3ISR)</td>
<td>60</td>
</tr>
<tr>
<td>Commercial off-the-shelf (COTS)</td>
<td>131, 278, 423, 894</td>
</tr>
<tr>
<td>Commercial Off-The-Shelf (COTS) games</td>
<td>179</td>
</tr>
<tr>
<td>Commercial off-the-shelf (COTS) games</td>
<td>180</td>
</tr>
<tr>
<td>Communications technologies</td>
<td>1401</td>
</tr>
<tr>
<td>Community</td>
<td>688, 690, 691, 692</td>
</tr>
<tr>
<td>Community-involved online gaming</td>
<td>766</td>
</tr>
<tr>
<td>Community of practice, definition of</td>
<td>580</td>
</tr>
<tr>
<td>Component-oriented programming (COP), via gaming</td>
<td>508</td>
</tr>
<tr>
<td>Computational model of learning</td>
<td>671</td>
</tr>
<tr>
<td>Computational models</td>
<td>691</td>
</tr>
<tr>
<td>Computer games</td>
<td>1354, 1372, 1373</td>
</tr>
<tr>
<td>Computer games, as cultural and educational spaces</td>
<td>759</td>
</tr>
<tr>
<td>Concept</td>
<td>1464</td>
</tr>
<tr>
<td>Concrete experience (CE) stage</td>
<td>459</td>
</tr>
</tbody>
</table>
Index

Conquest 1226
Conquest of the Coastlands 1227
content-neutral nature, of many of these claims 41
context-oriented learning, and video games 496
control 1471
COTS educational computer games 280
COTS game effectiveness 281
Counterstrike 766
Coupling Between Object (CBO) 534
critical thinking 1461
cults 1324
cultural capital 348
cultural significance 219, 220, 225, 229
current online educational games, major providers of 70
Cyber-Bullying 1330
cyber-bullying 1326
CyberSurvivor module 561, 563

D
Dale’s Cone of Experience 527
Dance Dance Revolution 111, 394
data fusion methods 642
debate 1470
Debugging mode 1283
deep learning 426
Defense Advanced Research Projects Agency (DARPA) 1323
democracy, dispositions that support 238
democratic participation skills 238
descriptors, implications of 663
Desensitization 1331
Design, Development and Evaluation of Educational Software (DDEES) 333
design, play, and experience (DPE) framework 1014
design, play, and experience framework 1010
design-based research (DBR) 1044
designing RtR 1464
design the lesson, how to 191
Design Walkthrough 1453
Deus Ex, video game 423
development goals, video game 1091
development processes, video game 1093
different learning styles, ICT should accommodate 895
digital divide 1323
digital game-based 1274
digital game-based learning (DGBL) 97
digital game-based learning, and convergence of mobile devices 96
digital games, eight genres of 69
digital history 220
Digital Media Consumers’ Rights (DMCR) Bill 493
digital natives and nomads, educating 99
digital toys 1290
Digital Worlds (DW) 152
discovery 1472
discovery learning 1045
disease and risk-prevention games 389
distributed learning 1045
domain-based experience, extensive 777
dorsal anterior cingulate cortex (dACC) 879
dynamic graphics 1172
dynamic knowledge creation, and social computing 101
dynamic resources, definition of 653

E
e-learning software 1379
economic education, and MMORPGs 240
educational games, and play styles 826
educational games, cognitive architecture for 721
educational games, k-12 learners 67
educational gaming, as a new instructional technique 67
educational gaming applications, managing cognitive overload 724
educational system 1402
Educational Testing Service (ETS) 1430
educational video games, design consistent with non-educational 787
Edutainment 1450
Edutainment Artifact 1450
Edutainment Game Prototype 1451
edutainment games 1449
edutainment technology 894
effective cognitive load 1149
effective instructional video game, creation of 1089
effects of instructional gaming, studies on the 20
ELECT BiLAT, video game 1090
electronic game 1127
electronic games, conceptualizing 115
electronic gaming, in Germany 163
Element placement mode 1283
embed content, in design 787
emerging technologies 1417
emotional intelligence 1406
emotions, and video games 893
emotions, using to improve the cognitive process 902
engagement 1147
enhancing intrinsic motivation 833
entertainment education 594
Entertainment Education Paradigm (EEP) 593
Entertainment Software Association (ESA) 758
Entertainment Software Rating Board (ESRB) 645, 1320
entertainment style 1169
environment, COTS GBL 189
Environmental Detective 86
Environmental Detectives 1464
epistemic frame inventories (EFIs) 585
evaluating a game, COTS GBL 190
EverQuest 795
evolutionary game theory (EGT) 1477
existential ludology 621
expecting evaluations 1285
experientially-based variations, in use of cognitive skills 785
Experimental Game Lab (EGL) 1277
expert performance or advice, access to 321
expert walkthrough 1454
Expert Walkthroughs 1455
Exploitation 1331
extrinsic achievement orientation 831
extrinsic games 1380

F
face-to-face games, in online educational environment 560
Fair play 1146

fantasy, in video games 1027
Federal Trade Commission (FTC) 366
feedback problems 1449
Fidelity 1331
find a game, how to 189
first-person shooter (FPS) 455
Flow theory 1029
Foley Center 865
folksonomies 1407
foreign language education, challenges 404
foreign language learning environments, optimal 403
formative evaluation 1443
fruit, juice, and vegetable (FJV) 389
functional magnetic resonance imaging (fMRI) 879

G
game-based learning environments 1218
game-based, metaphor-enhanced (GaME) design 1104
game-based cognitive or motivation processes, studies on 22
game-based historical learning 219, 220, 221, 222, 227, 228, 230
game-based learning (GBL) 179
game-based learning strategies 1427
game-based pedagogy, studies on 21
game-like learning environments 1357
game-play, historical inquiry in 212
game design 1143
game designers 1449
game design perspective, for people with special needs 141
game elements 1465
game genres 73
GaME instructional design process, key component 1108
GaME method, four design principles of 1111
game or simulation 671, 672, 673, 674, 676, 677, 678, 679, 680, 681, 682, 685, 686, 687, 688, 690, 691, 696
gameplay 1378
game play, three categories of tasks during 780
game play constraints 1467
game play layer, in video game design 1016
games 1355, 1356, 1357, 1358, 1359, 1365
games, as monolithic entity 39
games, extrinsic 1380
games, four functions enhanced 481
games, in college classrooms 479
games, intrinsic 1380
games, why study them 637
games and assessment, relationship between
577
Games for Entertainment and Learning (GEL) 1277
Games for Entertainment and Learning (GEL) Lab 1020
game theory 278
GAMEWheels 394
gaming, systemic approaches to 211
gaming and play-based virtual environments, as
a new educational technology 719
gaming technology, applied to other applications 521
Gee’s learning principles 489
general design guidelines 1449
general learning model (GLM) 877, 881
General Responsibility Assignment Software Patterns (GRASP) 533
genre baggage 224, 229
Glim quest 1227
Global Positioning Software (GPS) 1461
goal-based scenario (GBS) 331, 332
graphical user interface (GUI) 112
Gregorc Learning Style Delineator 482
Grooming 1331
grounded theory approach 1
Guitar Hero™ 111

H
Habbo Hotel, video game 494
HandLeR and Mobimissions 90
haptics 119
HCI expert 1449
health related electronic games, review of 389
Heart Sense, video game 391
herald 1225
hermeneutic relations 623
Heuristic evaluation 1453
hidden advertising plugs, aka product placements 360
hidden curriculum, of digital games 1026
historiographic gaming, discussion of 215
history 1460
How People Learn (HPL) framework 672
How People Learn framework 672, 673, 674, 681, 688, 690, 692
human-computer interface (HCI) 112
Human Computer Interaction (HCI) 1449

I
ICOMOS Burra Charter 220
iconic skills 1358
IGNITE 381
imaging the participant 612
immersion, in video games 1028
implications of fantasy 1033
implications of immersion 1033
implications of representation and identification 1034
inclusive paradigm, for video game study 1062
individualized learning 1045
ineffective cognitive load 1149
informal and unwritten rules, for games 1059
information age 1402
information technology (IT), undergraduate
courses 528
inhibiting intrinsic motivation 833
innovation, the grammar of 580
input design 1294
instructional design/development 1354, 1366
instructional design/development (IDD) 1356, 1360
instructional design/development model 1355, 1365
instructional design/development models 1359
instructional design/development models (ID-DMs) 1356
instructional designers, the challenge for 1110
instructional development issues 104
instructional game design, studies on 21
instructional technology 1355
instructional video games, development of 1089
intangible heritage 227
Index

integration of physical and virtual worlds 1474
integration vs. use, COTS GBL 187
intelligent learning games (ILGs) 195
intelligent tutoring system (ITS) 1275
intelligent tutoring systems 279
interactive and reflective learning 1045
interactive history 220, 221, 227
Interactive Story Architecture for Training (ISAT) 1277
Interdisciplinary Research Seminar (IRS) 152
International Game Developer’s Association (IDGA) 640
International Simulation & Gaming Association (ISAGA) 452
International Sports Sciences Association (ISSA) 394
Internet predator 1327
Internet relay chat (IRC) 608
interpersonal circumplex. See circumplex model
intrinsic 1280
intrinsic achievement orientation 831
intrinsic games 1380
intrinsic motivation, definition of 182
intrinsic motivation, what it means for COTS GBL 182
ironic play, with in-game elements 764
iterative design 1465

J
JIT information 1161
Just-in-time (JIT) 1129
just-in-time (JIT) 1150

K
Kid’s Programming Language (KPL) 1262
kids, what gets advertised to 364
Kingdom of Loathing (KoL) 847
Kingdom of Loathing, playing 849
knowledge, skills, and attitude (KSA) 1015

L
“Laser Challenge” 1451
Lack of Cohesion Metric (LCOM) 533
language and culture learning, opportunities
Language Learning 1380
language learning 1373, 1382
layers, influence between 1019
learner 696
learner, characteristics of the 674
learner characteristics 672, 674, 678
learner characteristics, studies on 21
learning environment, five assumptions of 1044
learning layer, in video game design 1015
learning orientations, and learning styles 830
learning processes, and violent video games 876
learning styles, and video games 893
learning style theories 833
learning task component 1161
Learning tasks 1150
learning through achievement, with video games 499
learning through practice, with video games 498
learning vs. “self education” 758
Lego Star Wars 778
Life Challenge, HIV-AIDS prevention video game 390
Life Preservers, video game 1012
light-emitting diodes (LEDs) 113
local and wide network (LAWN) games 53
location-based 1465
long-term memory (LTM) 721
ludology 1373, 1374, 1387

M
magic circle of play, video games 1057
managing cognitive overload, in educational gaming applications 724
Marcel Mauss, concept of bodily technique 111
massively-multi-player online role-playing games (MMORPGs) 1059
massively multi-player online games (MMOGs) 794
massively multi-player online roleplaying game (MMORPG) 847
massively multiplayer online game (MMOG) 71
massively multiplayer online games (MMOGs) 703, 1401
massively multiplayer online role-playing games (MMOG/MMORPG) 75
massively multiplayer online role-playing games (MMORPG) 53
massively multiplayer online role-playing games (MMORPGs) 235
massively multiplayer role-playing games (MMORPGs) 402
massive multiplayer online role-playing games (MMORPGs) 128
Math Blaster Algebra 283
mathematical formula 1308
meaningful learning 1106
mechanics, dynamics, and aesthetics (MDA) framework 1013
mechanistic model 812
media literacy 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448
Mediated Social Environments 1331
Menu buttons 1457
Mertis 1225
meta-gaming Second Life virtual environment, used for algebraic operations 546
metacognition 1440, 1445, 1446
metacognitive modeling 1441
micro-evolution 1277
microscopic 1277
Middle Rhine Eduventure 90
mindset, and self theories 832
MMOGs, and intertextuality 794
MMORPGs, and decision-making skills 243
MMORPGs, and social studies 238
MMORPGs, offerings for foreign language education 406
MMORPGs, used to support learning and training 57
MMORPGs for foreign language education, infrastructure of 408
MMORPGs for foreign language education, potential 407
MMORPGs for foreign language learning, designing 409
mobile and personal technologies, as primary platforms for delivery 102
mobility 1472, 1474
mod-making 213
Model-View-Controller (MVC) 532
models 682
model trace 1275
motivation dimension 1280
MUD object oriented (MOOs) 1407
multi-player games, educational impacts of 766
multi-player online games (MMOGs) 1204
multi-player online games (MMOGs) 1205
multi-player online role-playing game (MMORPG) 1218
multi-user dungeon (MUD) 607
multi-user dungeons (MUDs) 1407
multi-user virtual environment (MUVE) 1184, 1186
multi-user virtual environments (MUDs) 54
multimedia learning theories 106
multimedia software 1450
Multimodal 1331
multiplayer online games, for school education 57
multiplayer online role-play games, used for military training 60
Myers Briggs Type Indicator (MBTI) 898
My Pop Studio program 1440, 1441, 1442, 1443, 1444, 1445, 1446
N
Nabiscoworld.com 361
narrative model 813
Narratives 1374
narratives, four categories of 866
narrative studio 871
narrative vignettes 613
Narratology 1374
narratology 1373, 1387
National Assessment of Educational Progress (NAEP) 34, 238
newbie-friendly learning curve 412
new mobile gaming 1294
Newtoon and Mission Simulators 89
Nintendo Wii™ 111
No Child Left Behind (NCLB) 1401
non-playing characters (NPCs) 1461
Non-Uniform, Rational B-Splines (NURBS) 539
nonlinearity 1471
North American Simulation and Gaming Association (NASAGA) 452
NTeQ (iNtegrating Technology through inQuiry) 179
NTeQ Model 183
O
Object, View, and Interaction Design (OVID) 92
object-oriented programming (OOP), via gaming 508
Object Orientation paradigm 530
OCEAN model 674
ONLINE CHILDREN’S GAMES 360
online educational environment 560
online games, promoting specific brands or products 358
online gaming, brief overview 54
online gaming, definition of 52
online multiplayer role-play games, for post-16 learning 58
Oregon Trail 1318
Oregon Trail. 1319
organismic model 812
Othello, video game 509
Othello, video puzzle game 519
Outbreak@MIT 1465
Outbreak (online game) 89
P
Packy & Marlon, diabetes video game 392
paidea 1374
palette, of play styles 827
palette of play styles and learning 836
parasocial interaction (PSI) 597
pedagogy 1464
pedagogy, of digital games 1025
perceptive capacity 1047
performance feedback 1449
personal digital assistant (PDA) 1461
personality traits 897
personal myth development 862
Phong Reflection Model 540
physical models 676, 677, 678, 691
sensory system 676
physiognomy, definition of 616
physiological scheme, claims of games 36
platform metaphor 1453
play behavior, of the four player types 829
player character (PC) 897
player reasoning 1480
player types, nine used by commercial game companies 828
play style, and reward structure 837
play style and player types 827
play styles, palette of 827
plot 1219
Podcasts 1187
policy issues 103
popular culture 1257
positive impact model 1310
post-traumatic stress disorder (PTSD), and online gaming 61
practice field 1474
Predators 1325
prevalence of food, in console games 361
prevalence of food, in online games 361
principles of advertising and branding 362
problem-based learning 187
problem-based learning (PBL) 1196
problem space 680, 683, 695
processing dimension 1280
product placements, advergames 360
product placements, aka hidden advertising plugs 360
Program Executive Office for Simulation, Training, and Instrumentation (PEO STRI) 877
Program for International Student Assessment (PISA) 34
Programme for International Student Assessment (PISA) 169
programming skills 1257
proliferation 1294
propositions, based on self-organizing social systems theory 710
propositions, based on social exchange theory 711
propositions, based on social learning theory
Index

706rought propositions, based on social presence theory 708
709rought propositions, based on theories of collaborative learning 704
710rought propositions, based on theories of social support 712
psychological models 672, 675, 676, 678, 687
psychological scheme, claims of games 36

Q
Q-homomorphisms. See quasi-homomorphisms
Q-morphisms. See quasi-homomorphism
qualitative meta-analysis 1
quality dynamic resources, descriptors of 656
quality teaching, what do we know about 653
quasi-homomorphisms 685
Quest Atlantis 796
Quia, Website 1429

R
RAPUNSEL 720
Re-Mission, video game for young cancer patients 391
reading and comprehension, in schools today 255
real-time strategy (RTS) 1315
reasoning algorithm 1481
reflection 1470
reliving the revolution (RtR) 1460, 1461
representation and identification 1029
Rex Ronan, smoking prevention video game 390
Ridge Walking, mini game 1043
River City 796
River City AR 1465
role, bad citizen 854
role, beneficent demigod 855
role, bugfinder and tester 857
role, clan leader 854
role, good citizen 853
role, mall trader 855
role, virtuoso player 855
role-playing game, learning in 596
role-playing games 1205
Role-playing games (RPG) 1222
Role playing 1147
role playing game (RPG) 1383
roles, and their creation 852
Romance!, pregnancy prevention game 390
rostral anterior cingulate cortex (rACC) 879
RPG (role playing game) 1383
rules and fiction, tension between 765

S
Savannah 86
scoring 1449
Second Language Acquisition (SLA) 425
second language learning, several basic premises 403
Second Life (SL) 146
Second Life, a review of 610
Second Life, as a virtual world environment 149
Second Life, video game 494, 547
Selene: A Lunar Creation Game 1104
self-induced education 757
self-learning, through video games 500
self-management games 391
self-organizing social systems 709, 714
self-regulated learning (SRL) 739, 740
self-regulated learning, and video games 738
self-regulatory processes 738
self and identity, developing notions of 813
serious game 1466
serious games 219, 220, 227, 230
serious games, for police officers 451
serious games movement 1010
sexual content 1318
simulated worlds 1290
simulation, as a game 316
simulation, in world history 202
simulations 1354, 1355, 1357, 1359, 1364, 1365, 1404
single-player digital games 761
situated learning 1464
situated learning and cognition 181
situated vignettes, examples of 613
SIXAXIS Wireless Controller 112
sketch tool 1137
skill acquisition 780
small-group digital game interactions 133
social cognitive theory 598
social competition 1175
social constructivist classroom 1257
social exchange theory 710, 714
social interaction 1468
social learning, and video games 502
social learning theory 705, 713
social network 1478
social networking 1303, 1442, 1443
social networks (SNW), analysis 132
social networks, impact of 1480
social network type 1480
social presence 707, 713
social psychology 702
social support 712
soft skills 1406
solo vs. paired play 839
Space Station Leonis (SSL) 809
SPACE STATION LEONIS, game based learning with 810
special needs, game design for people with 141
Sprite inheritance hierarchy 514
SPY Act (Securely Protect Yourself Against Cyber Trespass Act) 493
Squire’s Quest! 389
standalone games 53
state-of-the-art learning games 1403
stealth learning, provided by serious game play 1010
story creation mode 1283
Story line 1147
storytelling, two perspectives on 1016
storytelling layer, in video game design 1016
strategic issues 103
Street Fighter, video game 1061
students, have different needs and abilities 894
subject-matter experts (SMEs) 92
Supportive information 1134
suspension of disbelief, in video games 599
Symptom Shock, concussion symptoms video game 391

T
teams 1405
techniques of the body 114
technological innovations 1403
technological pedagogical content knowledge (TPCK), and games for learning 42
technological pedagogical content knowledge (TPCK) framework 33, 42
technological pedagogical content knowledge (TPCK) model 1012
technology, pedagogy, and learning-trends in 101
technology layer 1019
Texas assessment of knowledge and skills (TAKS) 285
The Baby Game!, pregnancy prevention game 390
theoretical foundation 1143
type of mediatization 164
therapeutic and fitness games 393
The Sims 862
The Sims 2, sixty-six narratives 865
The Sims 2, story exchange in 865
The Sims online community 869
thieves 1325
three-dimensional (3D) environment 547
three-layer gaming framework 517
traditional instructional methods 1089
transferable schema 1143
transfer of knowledge, through video games 498
Trends in International Mathematics and Science Study (TIMSS) 34
trickster 1225
ttrue game, five elements of 69

U
U.S. Army Research, Development, and Engineering Command’s Simulation and Training Technology Center (STTC) 1090
U.S. Department of Defense (DOD) 452
unity of opposites 1225
Usability Evaluations 1455
user experience layer 1018
users’ personalities, and video games 893
user tracking 694

V
video and computer games, as pedagogical tools 490
video game experience, relationship between cognitive skills and the learning process 776
video game interfaces, whole body participation 111
Video games 1310
video games 1445, 1446, 1448
videogames, "machinima" 1393
video games, "Sid Meier's Civilization" 1392–1395
video games, "The Sims" 1392–1397
video games, building comprehension skills 251
videogames, educational potential of "Mods" 1393–1397
videogames, educational potential of "Mods", classroom context 1396–1397
videogames, educational potential of "Mods", instructor reactions 1395–1396
videogames, educational potential of "Mods", pupil reactions 1395
video games, measures of commercial success 641
video games, measures of critical success 640
video games, modified (mods) 1391–1393
video games, negative effects 878
video games, positive effects 877
video games, quality of content 501
video games, usage in the classroom 1390–1398
video games and today’s learners 595
video game soundtracks 1172
violent video games 876
violent video games, and increased aggression 876
virtual communities 1290
virtual heritage 219, 220, 221, 224, 225, 226, 227, 228, 229, 230
virtual life 1290
Virtual Reality Modeling Language (VRML) 548
virtual testimonials 1461
virtual world, how to select 494
virtual world environments (VWEs) 146
virtual worlds 1402
Virus (online game) 89
visual attention 1358
Visual Basic for Applications (VBA) scripting 1431
visualizing a single object 510

W
Widdershoven’s narrative model 816
Wii Sport 394
wireless handheld devices 1464
working memory (WM) 722
World of Warcraft (WoW) 794
World of Warcraft, video game 1061
Worm, video game 509
WormChase, video game 509

Z
zone of proximal development (ZPD) 426, 528, 834, 1259