

Index

A

a-didactical situations 135
 active learning, ICT-based 235
 active learning approach 232–249
 activity nodes 202
 analytic hierarchy process (AHP) 117
 anonymity mode 238
 ant colony optimization (ACO) 200
 artificial intelligence techniques 149–172
 asynchronous Javascript and XML (AJAX),
 new look 216

B

blended learning 89, 134
 blended learning course on communication 40

C

clustering analysis 186
 CoFIND 207
 cognitive profiles 3
 collaborative filtering 206
 collaborative sequencing 200
 competitive learning 236
 computer-assisted assessment (CAA) 280, 311
 computer-based assessment system (CBA) 310
 computer-provided feedback 282
 computer aided instruction (CAI) 86
 computer attitude scale (CAS) 99
 computer supported collaborative learning
 (CSCL) 234
 constraint programming (CP) 155
 constructivism, as a goal 50
 contingent plan 154
 cooperative learning 136

course-level report generation 259

D

data mining scheme 180
 data preprocessing 177
 diplomas and certificate generation 259
 distance mode 238
 domain theory 153

E

e-assessment, information gathering techniques
 305
 e-facilitators, quality assessment 317–327
 e-facilitators quality assessment, issues 320
 e-learning, accessibility 119
 e-learning, components 120
 e-learning, designing an online assessment
 300–316
 e-learning, failure w/o a method 47
 e-learning, formative online assessment 279–
 299
 e-learning, Heideggerian view 30–45
 e-learning, online interaction 123
 e-learning, quality evaluation 331
 e-learning, quality in 330
 e-learning, student satisfaction 119
 e-learning, training teachers 83–95
 E-Learning 2.0 213–231
 E-Learning 2.0, best practices 223
 E-Learning 2.0, reaching classrooms 219
 E-Learning 2.0, tools and challenges 220
 e-learning practices, contextual factors 102
 e-learning practices, institutional factors
 96–111
 e-learning research, institutional context 101

e-learning tools, automated processes 152
e-learning value, stakeholder perspectives 114
e-learning value, student experiences 112–131
e-mentoring 61–82
e-mentoring, a European perspective 63
e-mentoring, best practice 69
e-mentoring, differences from face-to-face 67–76
e-mentoring, issues 64
e-portfolio, strategic instrument of assessment 271
e-portfolio, strategic use 264–278
e-portfolio of "international economic relations" 268
e-Qual 328–348
e-quality assessment matrix (e-QAM) 321
e-quality learning standards 334
e-Qual model 336
education of man as a citizen 55
effective learning 264–278

F

face-to-face mode 238
flexible lifelong learning 85
flexible student alignment (FSA) 10
formative assessment concept 280
formative online assessment, design of activities 285
formative online assessment, strategies 288
formative vs. summative assessment 280

G

General Agreement on Trade in Services (GATS) 116
graphical user interface (GUI) 259
Graphplan planner 154
Greek Paideia 53–56
Growltiger 40

H

Heideggerian view on e-learning 30–45
Heidegger philosophy 31
heuristic search planner (HSP) 154
Homeric hero 54
HTN planner 154

I

ICT-based active learning 235
ICT limits, different learning 38
ICT use 240
independent component analysis (ICA) 174, 180
individual learning 134
InnoeLearning 336
institutional conventions 103
institutional factors, formation of e-learning practices 96–111
institutional standards 103
instructional style 98
IPSS final solution 165
IPSS integration 159

K

knowledge discovery, from e-learning activities 173–198
knowledge discovery in databases (KDD) 175
knowledge presenting 104

L

Learning at University unit 20
learning complexity 7
learning design 90
learning design (LD) 150
learning design (LD) information model 151
learning domains, representation formalisms 151
learning environment, definition 3
learning management system (LMS) x–xii, 250–263
learning management systems (LMS) 86, 96, 305
learning networks 202
learning opportunities 138
learning outcomes 90
learning strategy, choosing 239
learning styles 240
learning styles, classifications 234
learning technology (LT) 98
learning technology use, influencing factors 97
linear vector quantization (LVQ) 185

M

Markov decision process (MDP) 154
 mathematical language, pragmatic view 138
 mathematics education, integrating technology 132–148
 mathematics education, research 133
 mentoring, multifaceted/elusive concept 62
 MentorNet 65
 methodology assessment, aims 302
 methodology assessment, criteria and indicators 303
 methodology assessment, in e-learning 302
 mining decision rules 188
 Moodle, development model 254
 Moodle, error in the grade system 256
 Moodle, learning management system platform 252
 motivation, learning strategy 239

N

neural networks 185

O

Odyssey 54
 online adaptive assessment 288
 online assessment 283
 online assessment, effectiveness 284
 online assessment, pros and cons 283
 online assessment tool, creating 285
 online collaborative assessment 289
 online training methodology, building 46–60
 open and distance learning (Meca-ODL), guide 335
 open source LMS customization 250–263

P

paraschool system 201
 participatory design 12
 participatory methodology 19
 personalized e-learning environment (PELE) 4
 personalized e-learning environment (PELE), the need for 6
 personalized e-learning environments (PELE) 1–29

personalized e-learning environments (PELE), a systems perspective 8
 personal teaching 134
 phenomenology of learning a skill 33
 pheromone 200
 planning techniques 153
 platform-level report generation 257
 portfolio assessment 290
 principal component analysis (PCA) 182
 professional, continuous, and corporate education (PCCE) 30

Q

QUEST, a mixed competitive-collaborative solution 242
 Quest Environment for Self-managed Training (QUEST) 234

R

reflective and participatory approach to design (RAPAD) 1–29
 reflective and participatory approach to design (RAPAD), a systems perspective 8
 reflective and participatory approach to design (RAPAD), definition 2
 reflective and participatory approach to design (RAPAD), development 15
 reflective and participatory approach to design (RAPAD), student engagement 14
 regression analysis 185
 representational state transfer (REST) 216

S

SAT-based planner 154
 scheduling techniques 154
 Scottish centre for research into online learning and assessment (SCROLLA) 310
 self-assessment and learning, case study 291
 semiosis 141
 semiotic representation systems 137
 shareable courseware object reference model (SCORM) 152
 SIT 204
 situation learning (SL) 152
 social learning 51

Socrates 55
 Sophists 55
 student-focused model, the excuse 51
 student as learning system (SLS) 8, 10
 student learning process, monitoring 149–172
 sustainable environment for the evaluation
 of quality in e-learning (SEEQUEL)
 329, 334
 swarm-based techniques, in e-learning 199–
 212

T

TANGOW 156
 TANGOW, authoring a course 157
 TANGOW courses, case study 159
 TANGOW courses, monitoring 163
 TANGOW logs 158
 teacher training programs, developing 87
 teaching opportunities 138
 telematic environments 232–249
 total order (TO) planner 154
 total quality control (TQC) 318
 total quality management (TQM) 318
 total quality management (TQM) in higher
 education 319
 training teachers, a case study 88
 training teachers in evolving educational con-
 texts 87
 tri-dimensional relationship 135

V

virtual learning environments (VLE) 150

W

Web 2.0 214
 Web 2.0, key technologies 215
 Web mining 175
 Web revolution 214