

Index

A

additive independence 36
additive value functions 103
additive value model 37
attitude 5, 6, 12, 20, 91

B

behavior 6, 12, 20, 91
behavior channeling 16
belief 21
beliefs 12
bi-plots 152
Blackboard™ 216, 228

C

causal factors 61
Centra™ 228
characteristic satisfaction 196
characteristic value 196
collaborative learning 73
collaborative learning effectiveness 73
comparative judgment 65

comparative measurement 92
comparative system effectiveness 88, 240
computer-assisted data collection 145
computer-assisted instruction (CAI) 71
computer-based technology 71
computer-mediated communication (CMC) 80
computer-user satisfaction 42
construct validity 136, 143
content validity 136, 143
correlation analysis 154
course homepages 149
course organization 100
Cronbach's α 47, 144, 208
curves 128

D

data analysis 146
data collection 55, 57, 145
data mining 9, 103, 166
decision support systems (DSS) 58

definition of value 21
 design dimension 84
 desktop videoconferencing 73
 dimension grid 117
 dimension satisfaction 113, 126, 196
 dimension value 126, 154, 196
 dimensions of distance learning systems 10
 discriminant analysis (DA) 109
 distance learning 213
 distance learning systems 74
 documentation 57

E

e-learning effectiveness 69
 e-learning environments 1
 e-learning system dimensions 100, 122, 161
 e-learning systems
 2, 22, 90, 95, 117, 123, 133, 208, 212, 240
 e-learning systems characteristics
 3, 95, 133
 e-learning systems' dimension satisfaction 113
 e-mail request 149
 education 33
 effective 119
 effectiveness 90, 114, 124
 effectiveness curves
 124, 128, 225
 effectiveness grid 128, 130
 effectiveness of e-learning systems 90
 employer support 101
 end users 55, 56
 end-user computer satisfaction (EUCS) 52
 end-user computing 240
 end-user computing satisfaction (EUCS) 42, 50

End-User Computing Satisfaction (EUCS) theory 5, 18
 Eta (η) correlation 154, 208
 EUCS index 56
 EUCS instrument 52
 evaluative belief 13
 evaluative judgment 33
 exhortatory belief 13
 existential belief 13
 exploratory factor analysis 159
 exploratory qualitative research 133
 external validity 142
 extreme cases (outliers) 152

F

factor analysis 54, 155
 family support 101
 first-order factors 55

G

General Conceptual Model 90
 group decision support systems (GDSS) 72

H

hardware adequacy 57
 human behavior 16
 human dimension 81
 human values 17

I

importance of value 19
 improvement judgment 65
 improvement measurement 92
 improvement system effectiveness 88, 241
 information systems (IS) 1, 20, 33
 Institutional Review Board (IRB) 217
 instrument development 138
 instrument reliability 144

- instrument validity 142
- instrumental values 24
- internal validity 142
- Internet commerce 39
- Internet protocol (IP) 134, 149
- IS behavioral studies 103
- IS characteristics 33
- IS effectiveness
 - 7, 13, 42, 58, 90, 208, 213
- IS Effectiveness theory 4, 19
- IS satisfaction 44, 140
- IS satisfaction studies 103
- IS satisfaction theories 87
- IS service empathy 49
- IS service reliability 49
- IS success 63
- IS user satisfaction 207
- IS user satisfaction theory 4
- IS value 4
- items scales 140
- J**
- “just-in-time” education 74
- K**
- knowledge discovery techniques
 - 103
- Kolmogorov-Smirnov (KS) test 156
- L**
- learner dimension 102
- learners’ attitude 94
- learners’ dimension perceived satisfaction 117
- learners’ dimension satisfaction measure 89, 141, 241
- learners’ dimension value 118
- learners’ dimension value measure 89, 141, 241
- learners’ overall perceived satisfaction 94, 118
- learners’ overall perceived value 94
- learners’ overall satisfaction
 - 89, 141, 241
- learners’ overall value
 - 89, 118, 141, 241
- learners’ perceived effectiveness
 - 66, 90, 114, 128
- learners’ perceived effectiveness of e-learning systems 240
- learners’ perceived satisfaction
 - 8, 90, 93, 118, 143
- learners’ perceived value
 - 8, 90, 93, 118, 143
- learners’ satisfaction 61, 88
- learners’ satisfaction items (satisfaction items) 241
- Learners’ Value Index of Satisfaction (LeVIS) 4, 122, 123, 155, 211, 224
- learners’ value items (value items)
 - 5, 241
- learning effectiveness 72, 81
- Likert-type items 30
- linearity 103
- List of Values (LOV) theory 5, 18, 30
- LOV instrument 31
- M**
- Mahalanobis distance 152
- Main Quantitative Research (Phase III) 148
- margin of error for difference (MED) 180
- MCDA techniques 166, 211
- mean absolute difference (MAD) 180
- mean characteristic satisfaction 118, 184
- mean characteristic value 184
- mean dimension satisfaction 184
- mean dimension value 184
- mean satisfaction 119

mean squared difference (MSD)
180
mean value 119
means-ends values 39
measurable value function 36
measurement of IS effectiveness
42
Media Richness theory 73
MHDIS 166, 210, 211
Minnesota Attitude Inventory (MTAI)
instrument 28
MIS effectiveness 10, 60
MIS usage 63
missing data 151
mode of value 24
molar act 17
molecular act 17
MS®FrontPage® 145, 217
multi-criteria decision aid (MCDA)
103, 174
multicriteria satisfaction analysis
(MUSA) 104, 211
multigroup hierarchical discrimina-
tion (MHDIS) 104, 174
multiple linear regression 111,
167, 210
multiplicative value model 37
MUSA techniques 166

N

non-linear models 178
normative judgment 65
normative measurement 92
normative system effectiveness
88, 241
normative view 92

O

online learners 3, 209
online learning courses 164
online-course evaluation code 145
operations research (OR) 33

ordinal logistic regression
111, 169, 211
ordinal value function 36
organizational effectiveness 66
overall grid 117
overall satisfaction
45, 93, 126, 178, 195, 223
overall value
45, 126, 154, 195, 223

P

PCA analysis 164
Pearson correlation 79, 154, 208
peer e-learning systems 92
peer systems 228
perceived effectiveness of an e-
learning system 9
perceived learning 181
perceived satisfaction 118
perceived value 118
perceived value of IS 208
perceptual screening 16
piece-wise linear approximation
105, 225
pilot group 204
pilot quantitative research 136
pilot study 132
PlaceWare™ 228
pop-up window 149, 219
pre-analysis data preparation 150
prediction of values 166
preferential independence 37
principal components analysis
(PCA) 4, 26, 72, 132, 208
productivity 57
professor evaluation code 149
proposed e-learning system char-
acteristics 241
proposed e-learning system dimen-
sions 241

Q

quantitative factor analysis 215
quantitative research 147

R

ranking 31
ranking problems 112
rating of values 27, 139
rating scale 26
reliability 56, 136, 142, 149, 215
response-set 151
Rokeach's Value Survey (RVS)
 theory 18, 23
RVS instrument 27

S

satisfaction 2, 3, 6, 13, 17,
 42, 90, 118, 124, 143, 213,
 242
satisfaction factors 146, 157, 161
scree-plot 161
second-order factor 55
SERVQUAL 49
similar vector analysis 208
small-businesses computing
 satisfaction 57
software adequacy 57
SPSS™ 220
standard error of difference (SED)
 180
standardized regression coeffi-
 cients (SRCs) 167
Strengths-Weaknesses-Opportuni-
 ties-Threats (SWOT) 8, 117
student involvement 77
"surrogate" 42
"surrogate" construct for system
 effectiveness 6
"surrogate" measures of IS effec-
 tiveness 60

survey items 242
system availability 134
system reliability 100
system security and integrity 57
system uptime 134
system's effectiveness 2

T

teaching effectiveness 75
technical support 165
technology mediated classrooms
 71
technology mediated learning (TML)
 field 181
Technology Mediated Learning
 (TML) theory 1, 67, 84, 95,
 117
terminal values 24
TIP (Time, Interactions, and Prac-
 tice) theory 73
training and education 57

U

UIS instrument 46
university classrooms 71
user behavior 44
user information satisfaction (UIS)
 42
user information satisfaction (UIS)
 instrument 141
User Information Satisfaction (UIS)
 theory 5, 18
user satisfaction 42, 88
User Satisfaction theory 6
UTA method (UTilités Additive) 104
UTADIS (utilités additive
 discriminantes) 105
utility function 104
utility independence 37

V

value

2, 18, 90, 118, 124, 143, 213,
242

value factors 146, 157, 161

value item 156

value of e-learning systems 22

value ranking instruments 139

value theory 2, 5, 6, 10, 14, 19,
93 213

Value-Satisfaction and effective-
ness grids 184

Value-Satisfaction Dimension Grid
187, 190

Value-Satisfaction grids 4, 8, 116,
123, 150, 155, 212, 217

Value-Satisfaction overall grid 212

vendor support 57

VLS (virtual learning systems) 1

W

weak-difference independence 37

Web-based survey 147

WebCT™ 216, 228