Index

Symbols Benkler's design typology 90 (re)framing practice, in community settings 11 BioMOBY 222 3D Active Worlds 250 Blogs 209 3D collaborative virtual environment 249 Bridging Research and Practice (BRAP) 276 3D collaborative virtual environment (3DCVE) Business Process Model Notation (BPMN) 311 3DCVE. 257 \mathbf{C} 3D imaging, for virtual community practicing 'Community-Media-Practice' grid (CmP) 445 3D imaging applications, general 230 cable (DVB-C) signal 128 3D telepresence, future in virtual communities Canadian Water Network (CWN) 353 case study methodology 28 3DTV 245 certificate authority (CA) 186 Changing Environment 333 A clique analysis 356 cliques, of collaborators and confidants 368 abstract UI (AUI) 316 cluster computing, and Web services (WS) 168 activity, structure of 258 co-viewing experience 131 Activity Theory (AT) 249, 250 collaboration and exchanges of ideas, overlap Activity Theory, as model for investigation and of 369 analysis 256 collaborative research, social context of 356 Advancing Clinico-Genomic Trials on Cancer CollaboraTV 133 (ACGT) 341 collective knowledge 209 aggregation (community), influence of level of commerce-oriented communities, and user 196 toolkits 243 annotate score 294 communities 7 appreciative inquiry (AI) 61, 62 communities of practice (CoP) 62 appreciative model, for knowledge sharing 70 communities of practice (CoPs) 18, 19, 46 asynchronous activities, realization of 393 communities of practice, can they be structurasynchronous tasks 427 ally designed? 33 audience communities 381 communities of practice, considerations for the augmented music toolkit 283 cultivation of 24 avatar 192 communities of practice, four characteristics of 23

B

communities of practice, interest in the creation of 34	creation of CoPs, technology as a support or purpose 36
communities of practice, key concepts of 47	cross-cultural exchanges 249
communities of practice, landscape of 64	cross-organizational grid environments, threats
communities of practice, notion of dualities in	and risks of 185
47	cross-organization communities of practice
communities of practice, nurturing online 77	1, 103
communities of practice, three characteristics	cross-organization virtual community of prac-
of 22	tice 283
communities of practice, virtual 9	
* '	cultural heritage, virtual communities in 236
community, level of social aggregation 195	CyberCircle 146, 154
community-oriented workflows 308	CyberMentor 145, 151, 152
Community Authorization Service (CAS) 187	D
community boundary crossings 282	
community constituents 423	data Grids 173
community knowing 76	data Grids, types of 174
community models 418	denial of service (DoS) 186
community of practice (CoP) 9, 42, 43	DIAMOUSES 378
community platform 151	DIAMOUSES communities 391
community workflows vs. workflow engines	DIAMOUSES platform 386
116	DIAMOUSES project 290, 386
computational Grids, and information infra-	digital video recorder (DVR) 137
structure 169	directed graph 214
computer-mediated communication (CMC) 52	distance 372
computer-mediated practice vocabularies 283	distributed collective practice toolkits vs.
computer human interaction (CHI) 335	groupware 116
concrete UI (CUI) 316	distributed communities of practice (DCoPs)
Concur Task Trees (CTT) 312	51
connectivity, and boundaries 361	distributed community of practice (DCoP) 52
content sharing sites 210	distributed computing systems 168
context-sensitive e-learning 405	distributed CoPs (DCoPs) 42
control-flow patterns 312	diversity 356
coordinative practice 14, 447	diversity, disciplinary and sectoral 369
coordinative practices 288	domain-specificity 302
coordinative practices, designing toolkits for	domain-specific visual vocabularies 287
286	domain specific languages (DSLs) 287
CoP, in organizational contexts 21	dualities 47
CoP, key success factors in the cultivation of	dynamic packaging systems 417
26	
CoP, within the context of social learning	\mathbf{E}
theory 20	a loorning activities, 405
CoPs, and virtual CoPs 51	e-learning activities 405
CoPs, implementing and operating 24	e-learning communities of practice (e-CoPs) 406
costumer relationship management (CRM)	
systems 420	e-learning environments 400 e-science 332
creation of communities, organic or pomoted?	e-science 332
31	

Economic and Social Research Council (ESRC) heterogeneity 178 high-school virtual communities, for science 182 electronic program guides (EPGs) 129 experiments 232 Engestrom's Expansive Learning Cycle 264 high performance computing (HPC) codes 166 environment, changing healthcare 333 home asthma telemonitoring (HAT) system environmental protection, virtual community practices in 239 human interactions, changes in 88 European Data Grid project 173 I Exchangeable Routing Language (XRL) 311 experience organization 109 ICT systems, repositioning the purpose of 78 eKoNEΣ framework 423 identity negotiation 276 eKoNEΣ project 418 iDTV (interactive digital television) 127 independent work 359 F individualized communities 270 information-based product development, disfinal UI (FUI) 316 floor manager 292 tributed collective practice in 294 FlowiXML 309 institutional arrangements 357 integrative frame of reference, towards 445 forming stage 434 Friend-Of-A-Friend (FOAF) 218 intelligibility catcher (IC) 401 intelligibility catchers (ICs) 411 G interaction, patterns of 257 interactive digital libraries general-purpose community management tools 270, 273, 274, 276, 277 interactive digital television (iDTV) Global Business Network (GBN) 63 126, 127, 128 Global Grid Forum (GGF) 170 interactive practice vocabularies, meta-model Globus toolkit 178 for building 288 Globus Toolkit, components of 180 International Grid Trust Federation (IGTF) 186 Globus Toolkit, practice and experience with the 180 J Grid, three criteria of 166 Grid, types and infrastructure 169 jazz rehearsal scenario 389 Grid computing 165 K Grid Data Handlers (GDH) 175 Grid Data References (GDR) 175 knowledge commons 87 Grids, as enablers for virtual organizations 181 knowledge management 36, 42, 44 Grids, for scientific communities 182 knowledge management (KM) 44 Grids vs. distributed, peer-to-peer and cluster knowledge management, communities of computing 167 interaction and communities of practice, bringing together 48 H knowledge networking, vision of 63 'Hidden', concept of 49 knowledge transfer 44 knowledge transfer, in a distributed environ-'hidden' CoPs 49 'Hidden' CoPs, characteristics of 50 ment 46 'Hidden' CoPs, value of 50 knowledge work, community approach to man-'hidden' CoPs, what are they 49 aging 76

${f L}$	networked communication media 4
L	network music performance (NMP) 379
Latency Accepting Approach (LAA) 383	Networks of Centres of Excellence (NCE)
learning communities 251	program 353
levels of detail (LOD) 402	networks of communities of practice (NCoPs)
Lifecycle 108	353
linguistic domains 444, 448, 452	new media 2, 3, 14, 443, 444, 445, 446, 44
Linked Environments for Atmospheric Discov-	9, 451, 452
ery (LEAD) 184	new practices, requirements for 420
live electroacoustic Music performance sce-	No Child Left Behind Act 279
nario 390	norming stage 437
M	nstitut de Recherche et Coordination Acous-
IVE	tique/Musique (IRCAM) 385
macro-practice 449	0
malware 186	0
manipulate score 292	on-line vs. off-line practices 115
mark score 294	online communities 1, 211
Massive Multiplayer Online Games (MMOG)	ontologies, and SOAs 417
190	Open Data APIs 212
Math Forum, teachers 273	Open Media Framework (OMF) 385
Math Forum, The 269	Open Source Grid Middleware & toolkits 178
mentee 162	organizational model 313
mentor 151, 152, 163 metronome 292	organizational process 70
micro-practice 451	organization of work 358
Microsoft Windows Workflow Foundation	OWL-S (formerly DAML-S) 221
(WWF) 311	P
model-driven engineering (MDE) 309	1
Museum Victoria (MV) and the Women on	participatory design 93
Farms Gathering (WoFG) Collection 94	participatory design, spectrum of 96
musical score 292	patient and caregiver peer-to-peer applications
music communities, five distinct types of 379	339
music composers' communities 385	patient empowerment, and personalized medi-
music learning communities 383	cine 334
music learning communities, Intertwining on-	peer-to-peer (P2P) computing 168
line and off-line practice in 290	People Web 208
music performance communities 382	performing stage 438 personalized communities of practice 269
music sharing communities 380	personalized community 269
mutual awareness 288	personalized networking 270
N	personal process 69
	Petri nets 311
National Centre for e-Social Science (NCeSS)	piano lesson scenario 391
182	pilot application scenarios, and empirical find-
National Science Foundation (NSF) 184	ings 388
network composition 356	platform variation 325
network density measures 356	play, role of 261

D 1 : 040	GEE 141 1 : Ct 1 C G D 114
Poleis 242	SEF, and the design of tools for vCoP 114
practice-oriented thinking, common ground in	SEF's functional view, constituents and arche-
10	type 107
practice-oriented toolkits 444, 447, 448, 449,	SEF's objectives, and the products assembled
450, 451, 452	within its scope 107
practice-oriented toolkits, design of and CmP	Semantically-Interlinked Online Communities
447	(SIOC) 217
practice-specific toolkits 283	Semantic Annotations for WSDL and XML
practice-specific toolkits, software factories as	Schema (SAWDL) 221
105	Semantic Grid 164, 176
practice-specific toolkits and vocabularies 290	Semantic Social Web 207, 216
practice toolkits, and informational / social con-	Semantic Web 207, 208, 209, 213
nectivity 450	Semantic Web (SW) 225
practice toolkits, as tools for communicating in	Semantic Web, technology infrastructure 213
linguistic domains 447	Semantic Web services 219
process model 313	Semantic Web Services Framework (SWSF)
professional community, barriers and enablers	221
for the emergence of 356	situated action 252
professional community, structural characteris-	size 372
tics of the 360	social bookmarking sites 210
Progression model 311	social community mining vs. data management
D	118
R	social interaction 4
Realistic Jam Approach (RJA) 383	social media 3, 5
reification 48	social network analysis (SNA) 353
Relational Database Management System (RD-	social networking 3, 13
BMS) 174	social networking sites 210
Remote Recording Approach (RRA) 383	social networks 269
replica manager (RM) 176	social practice 2, 443, 444, 445, 449, 451,
resource description framework (RDF) 213	452
Rich Internet Applications (RIA) 211	social practice, computer mediated 2
rules, ubiquity of 91	social practices, virtual 9
	social process 69
S	Social Semantic Web 216
'social' experience factory (SEF) 102, 106	social television 130
'social' experience factory (SEF), and manage-	Social TV 2, 126, 127, 128, 130, 131, 135,
ment of collective practices 106	136, 137, 138, 139, 140
"social" experience factory (SEF) 101	Social TV, and virtual communities 135
satellite (DVB-S) signal 128	Social TV systems 130
scarcity 87	social visualization 145, 148, 163
Scholion 410	Social Web 207, 209
science, technology, engineering, and math-	Social Web/Web 2.0 225
ematics (STEM) 146, 152	spatiality, interactional arena 194
scope of design 301	spiral of knowledge 46
SECI model 44, 45	Squad Lifecycle view 434
SECI model, four phases 45	squad organization 108
SECT MOUEL, TOUT PHASES 43	

storming stage 434 story-telling 76 StoryCorps, and Hurricane Katrina 94 structuration theory 91 structuration theory, and participatory design 92 supporting tools, genres of 104 synchronous activities, realisation of 393 synchronous sessions 433 T tagging 212 tailorable virtual asset, designing a 301 task wodel 313 task variation 325 task wodel 313 task variation 325 tatam recruitment 358, 359 technology 360 technology acceptance model (TAM) 147 technology acceptance model (TAM) 147 terendilogy use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 three-dimensional displays 229 three-dimensional displays 229 three-dimensional displays 229 three-dimensional displays 229 three-dimensional maging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual com- 67 toolkit designers, implications for 301 tourism, technology and community trends in 416
structuration theory 91 structuration theory, and participatory design 92 supporting tools, genres of 104 synchronous activities, realisation of 393 synchronous sessions 433 T tagging 212 tailorable virtual asset, designing a 301 task wodel 313 task variation 325 task wariation 325 team recruitment 358, 359 technology 360 temporality, historical context 194 terrestrial (DVB-T) signal 128 terrestrial (DVB-T) signal 128 terredimensional computer graphics 229 three-dimensional computer graphics 229 three-dimensional computer graphics 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual Cop 67 toolkit designers, implications for 301 tourism, technology and community trends in 416
structuration theory 91 structuration theory, and participatory design 92 vacation package assembly, distributed collective practices for 295 vacation package workflows, and assembly practices 427 viewing experience 126, 128, 227 virtual commons, community is essential in 91 virtual communities 8, 146, 209 virtual communities 8, 146, 209 virtual communities, in cultural heritage 236 virtual communities, in health and social care 332, 335 virtual communities of practice 1, 65, 353 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community, , for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, for 295 vacation package assembly, distributed collective practices for 295 vacation package assembly, distributed collective practices for 295 vacation package workflows, and assembly practices 427 viewing experience 126, 128, 227 virtual communities, full 3D telepresence 245 virtual communities, in lealth and social care 332, 335 virtual communities, in health and social care 336 virtual communities of practice in 285 virtual communities of practice in 536 virtual communities of practice (VCoPs) 51 virtual communities of practice, 1, 65, 353 virtual communities of pr
structuration theory, and participatory design 92 vacation package assembly, distributed collective practices for 295 vacation package workflows, and assembly practices 427 viewing experience 126, 128, 227 virtual commons, community is essential in 91 virtual commons, community is essential in 91 virtual communities, full 3D telepresence 245 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities, in cultural heritage 236 virtual communities, in health and social care 332, 335 virtual communities in ehealth, taxonomy of 336 virtual communities of practice in 285 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community, , for girls interested in STEM 151 virtual community of practices, in environmental
supporting tools, genres of 104 synchronous activities, realisation of 393 synchronous sessions 433 T tagging 212 tagging 212 talorable virtual asset, designing a 301 task & concepts (T&C) 316 task model 313 task variation 325 technology 360 technology acceptance model (TAM) 147 technology acceptance model (TAM) 147 technology use, on projects 358 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional displays 229 three-dimensional limaging technologies 228 three-vector framework 66 three-vector framework 66 three-vector framework, adapting to virtual community, , for girls interested in STEM 151 toolkit designers, implications for 301 tourism, technology and community trends in 416
supporting tools, genres of 104 synchronous activities, realisation of 393 synchronous sessions 433 T tagging 212 tagging 212 tailorable virtual asset, designing a 301 virtual commons, community is essential in 91 virtual commons, community is essential in 91 virtual communities 8, 146, 209 virtual communities, full 3D telepresence 245 virtual communities, full 3D telepresence 245 virtual communities, full and the virtual communities, in cultural heritage 236 virtual communities, understanding practice in 285 virtual communities of practice (VCoPs) 51 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in music 379 virtual community (VC) 52 virtual community (VC) 52 virtual community (VC) 52 virtual commu
supporting tools, genres of 104 synchronous activities, realisation of 393 synchronous sessions 433 T tagging 212 tailorable virtual asset, designing a 301 task & concepts (T&C) 316 task model 313 task variation 325 technology 360 technology acceptance model (TAM) 147 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 terrestrial (DVB-T) signal 128 terredimensional displays 229 three-dimensional displays 229 three-dimensional displays 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual COP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 tive practices for 295 vacation package workflows, and assembly practices 427 viewing experience 126, 128, 227 virtual communities 8, 146, 209 virtual communities, full 3D telepresence 245 virtual communities, in cultural heritage 236 virtual communities, in health and social care 332, 335 virtual communities in health, taxonomy of 336 virtual communities of practice 1, 65, 353 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice (VCoP) 42, 52, 353 virtual community of practice, in environmental
synchronous activities, realisation of 393 synchronous sessions 433 T tagging 212 tailorable virtual asset, designing a 301 task & concepts (T&C) 316 task & concepts (T&C) 316 task wariation 325 task variation 325 technology 360 technology acceptance model (TAM) 147 technology acceptance model (TAM) 147 technology acceptance model (TAM) 147 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 vacation package workflows, and assembly practices 427 viewing experience 126, 128, 227 virtual communities 8, 146, 209 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities, in health and social care 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice 1, 65, 353 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community (VC) 52 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
T tagging 212 tailorable virtual asset, designing a 301 task & concepts (T&C) 316 task model 313 task variation 325 technology 360 temporality, historical context 194 terrestrial (DVB-T) signal 128 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 task model 313 virtual communities, future in 245 virtual communities, in health and social care 332, 335 virtual communities, in health and social care 336 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community, , for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
viewing experience 126, 128, 227 virtual commons, community is essential in 91 virtual commons, community is essential in 91 virtual communities 8, 146, 209 virtual communities, full 3D telepresence 245 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities, in cultural heritage 236 virtual communities, in cultural heritage 236 virtual communities, in health and social care virtual communities, in health and social care virtual communities, understanding practice in technology acceptance model (TAM) 147 technology use, on projects 358 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 terrestrial (DVB-T) signal 128 terrestrial (interpolation 250 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities, in health and social care virtual communities, understanding practice in 285 virtual communities of practice (VCoPs) 51 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
virtual commons, community is essential in 91 tagging 212 virtual commons, community is essential in 91 virtual commons, community is essential in 91 virtual communities 8, 146, 209 virtual communities, full 3D telepresence 245 task & concepts (T&C) 316 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities, in health and social care tam recruitment 358, 359 virtual communities, in health and social care technology acceptance model (TAM) 147 technology use, on projects 358 virtual communities, understanding practice in technology use, on projects 358 virtual communities in ehealth, taxonomy of temporality, historical context 194 sterrestrial (DVB-T) signal 128 virtual communities of practice 1, 65, 353 virtual communities of practice (VCoPs) 51 theoretical links, and motivation 250 third dimension (3D) 227 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) tourism, technology and community trends in 416
tagging 212 tailorable virtual asset, designing a 301 task & concepts (T&C) 316 task model 313 task variation 325 technology 360 technology acceptance model (TAM) 147 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 terrestrial (inks, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual community trends in 416 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities, in health and social care 332, 335 virtual communities, in health and social care 332, 335 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice (VCoPs) 51 virtual communities of practice, in research work 352 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice (VCoP) 42, 52, 353 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities of practice (VCoPs) 51 virtual communities of practice (VCoPs)
tailorable virtual asset, designing a 301 task & concepts (T&C) 316 task & concepts (T&C) 316 task model 313 task variation 325 team recruitment 358, 359 technology 360 technology acceptance model (TAM) 147 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities, in health and social care 332, 335 virtual communities, understanding practice in 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice in 285 virtual communities, future in 245 virtual communities, future in 245 virtual communities, in cultural heritage 236 virtual communities, understanding practice in 285 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communitites of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP)
task & concepts (T&C) 316 task model 313 task variation 325 technology 360 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 track & concepts (T&C) 316 virtual communities, in cultural heritage 236 virtual communities, in health and social care 332, 335 virtual communities, understanding practice in 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual communities of practice, in research work 352 virtual communities of practice, in research work 352 virtual communities, in cultural heritage 236 virtual communities, in health and social care 332, 335 virtual communities, understanding practice in 285 virtual communities of practice (VCoPs) 51 virtual communities of practice (VCoPs) 51 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
task model 313 task variation 325 team recruitment 358, 359 technology 360 technology acceptance model (TAM) 147 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 terrestrial links, and motivation 250 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities, in cultural heritage 236 virtual communities, in health and social care 332, 335 virtual communities, understanding practice in 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in music 379 virtual communities, understanding practice in 285 virtual communities, understanding practice in 285 virtual communities of practice (VCoPs) 51 virtual communities of practice (VCoPs) 52 virtual communities of practice (VCoPs) 52 virtual communities of practice (VCoPs) 52 virtual community (VC) 52 virtual community (VC) 52 virtual community (VC) 52 virtual community of practice (VCoP) 42, 52, 353 virtual communities, understanding practice in 285 virtual communities of practice (VCoPs) 51 virtual communities of practice (VCoPs) 51 virtual community, for girls interested in STEM 151 virtual community of practice, in research work 352 virtual community, for girls interested in STEM 151 virtual community of practice, in environmental
task variation 325 team recruitment 358, 359 technology 360 technology acceptance model (TAM) 147 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities, in health and social care 332, 335 virtual communities, understanding practice in 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice (VCoP) 42, 52, 353 virtual communities, understanding practice in 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice (VCoP) 42, 52, 353 virtual community of practice, in research work 352 virtual community of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community of practice, in research work 352 virtual community of practice, in research work 352 virtual community (VC) 52 virtual community of practice, in research work 352
team recruitment 358, 359 technology 360 technology acceptance model (TAM) 147 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 332, 335 virtual communities, understanding practice in 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice 1, 65, 353 virtual communities of practice, in ruse arch virtual communities of practice, in research work 352 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
technology 360 technology acceptance model (TAM) 147 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities, understanding practice in 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual communities, understanding practice in 285 virtual communities in ehealth, taxonomy of virtual communities of practice (VCoPs) 51 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice (VCoP) 366 Virtual community (VC) 52 virtual community of practice, in environmental
technology acceptance model (TAM) 147 technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 285 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community (VC) 52 virtual community (VC) 52 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
technology use, on projects 358 temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual COP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities in ehealth, taxonomy of 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, , for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community of practice, in research work 352 virtual community (VC) 52 virtual community (VC) 52 virtual community, , for girls interested in STEM 151 virtual community of practice, in research work 352
temporality, historical context 194 terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 thiree-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 336 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
terrestrial (DVB-T) signal 128 text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities of practice (VCoPs) 51 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, , for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
text, role of 262 theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community (VC) 52 virtual community of practice (VCoP) 42, 52, 353 virtual community of practice, in music 379 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52
theoretical links, and motivation 250 third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities of practice, in music 379 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, , for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
third dimension (3D) 227 three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual communities of practice, in research work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
three-dimensional computer graphics 229 three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 work 352 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
three-dimensional displays 229 three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual community 135, 139, 144, 146, 150, 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
three-dimensional imaging technologies 228 three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 151, 156, 157, 158, 163, 190 virtual community (VC) 52 virtual community, for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
three-vector framework 66 three-vector framework, adapting to virtual CoP 67 toolkit designers, implications for 301 tourism, technology and community trends in 416 virtual community (VC) 52 virtual community, , for girls interested in STEM 151 virtual community of practice (VCoP) 42, 52, 353 virtual community practices, in environmental
three-vector framework, adapting to virtual CoP 67 virtual community, , for girls interested in STEM 151 virtual community of practice (VCoP) tourism, technology and community trends in 416 virtual community practices, in environmental
67 STEM 151 toolkit designers, implications for 301 virtual community of practice (VCoP) tourism, technology and community trends in 416 42, 52, 353 virtual community practices, in environmental
tourism, technology and community trends in 42, 52, 353 virtual community practices, in environmental
tourism, technology and community trends in 42, 52, 353 virtual community practices, in environmental
virtual community practices, in environmental
tragedy of the commons 87 protection 239
trust 368 virtual cultural tours 242
two-dimensional (2D) 228 virtual disease management 337
virtual encounter 67
U virtual encountering, the various CoP 68
UDDI (Universal Description, Discovery and virtual enterprises, defining a context for 65
Integration) 221 virtual expertise 67
uniform resource identifiers (URIs) 213 virtual expertizing, the various CoP 68
Universal Resource Identifiers (URIs) 208 virtual health care delivery 332
user generated content 210 virtual health care delivery teams 336
user interaction, designing 303 virtual knowledge commons 89

virtual music communities 378
virtual music communities, five distinct types
of 379
Virtual Organization 164
virtual organizing communities of practice 66
virtual partnerships 103
virtual sourcing 67
virtual sourcing, the various CoP 68
virtual theater community practices 234
virtual Tower of Babel 253
visualization tool 146
visualizing social interaction 152
vocational package vocabulary, designing the
296

\mathbf{W}

Web 2.0 209
Web Service (WS) 225
Web Service Description Language (WSDL)
220
WELL project (Whole Earth 'Lectronic Link)
63
Wikis 210

workflow, conceptual modelling of 313 workflow, designing the 302 workflow data patterns 312 workflow editor, based on Petri nets 308 workflow information system (WIS) 309 workflow resource patterns 312 workflow system, developing the UI of a 315 workplace variation 325 World of Warcraft 190 World of Warcraft (Wow) 192 World of Warcraft (Wow), social interaction in 195 World Wide Web (WWW) 207 Wow, symbolic interactionism and 193 WoW, three types of servers 195 WSMO (Web Services Modeling Ontology) 222

Y

Yet Another Workflow Language (YAWL) 311