Index

Symbols
4ML. See music and lyrics markup language (4ML)

A
accessibility 5, 231–234, 325, 341
aggregation module 102–110
application service providers (ASP) 226
asymmetric encryption methods 292–293
audio generation 45–46
audio signal-driven sound synthesis 179–182

B
basic symbol recognition 84, 95

C
CapXML 30
cascading stylesheets (CSS) 136, 138–139, 145, 147
ChordML 141, 148
collaborative software 227
common western music notation (CWMN) 15, 52, 111, 119–121, 127–128, 141–145
content management systems (CMS) 222
Content Reference Forum (CRF) 332
copyright 333–335
copyright collecting societies 328–329
CORKAL 252, 316
Creative Commons 277–280, 286, 314, 331, 362
cryptography 291

d
Dalroze method, the 233
design grid 127, 129, 130
digitalisation 50–79

Digital Media Project (DMP) 332, 348
digital music industry value chain 309
digital rights management (DRM) 8, 249–282, 283–324, 325, 332, 341, 343, 345–347
digitisation guidelines 54
distribution 5, 250, 304, 318–320, 325–363
Document Style and Semantics Specification Language (DSSSL) 135–136
DReaM 250, 252, 280–281, 312, 351, 361

E
e-learning 195, 199, 201–203, 206, 210, 214, 218–228
edutainment 3, 13, 15–16, 27, 75, 223, 358
electroacoustic 154–157
ENIGMA 137
error recovery 96–98
expert model, the 236

F
fingerprinting 297–300
Fisher’s license model 314
FlowML 141–142, 150
forums 224

G
German Academic Publishers 314
gestural control 151, 156, 163, 169, 189, 192

H
Helix DRM 254, 268–269, 280–281, 349
HTML 137–138
human-computer interaction 167, 168, 171, 228, 369
Index

human language writing systems 120–121
HyTime Finite-Coordinate-Space (FCS) 124–125, 136–137, 142

I
I-MAESTRO 14, 27
illegal file sharing 285–286
imaging 5, 50–79
IMUTUS 13–14, 80–81
insertion engine 22
interactive bowed stringed instruments 174–177
Interactive Musicnetwork 1–11, 14, 23, 27, 326, 333
interactive TV 15
Internet Streaming Media Alliance (ISMA) 253, 332

K
knowledge management systems (KMS) 222
Kodaly concept, the 233

L
language labs 208–210
language learning 201–217
learning content management system (LCMS) 222
learning portals 227
Liquid Music Network (Liquid Digital Media) 349

M
Maslow’s hierarchy of needs 196
MathML 113–119
MAX/MSP 27, 154–156, 160–162
Microsoft Windows Media DRM 267, 312, 347, 349–350
mm.mysql-2.0.8-bin.jar 237
MML Music Space 124–126, 130
MOCG 55–56, 60, 62, 62–64
MPEG 3–5, 9, 12–25, 26–49
MPEG-21 5, 269–270
MPEG-21 REL 269–270, 279–281
MPEG-7 5, 290, 359, 363
MPEG Symbolic Music Representation 12–25, 26–49
multimedia document model 114–117
MUSICALIS 13, 25, 27
music and lyrics markup language (4ML) 141–142
music copyright 284–289
music markup language 111–132
MUSICNETWORK. See Interactive Musicnetwork
music notation 3–5, 7, 9, 13–25, 26–49
music notation model 14, 81, 83, 85, 99
music notation symbol reconstruction 99–108
Music Tagging Type Definition (MuTaTeD) 142
MUSICXML 80, 85

N

O
online music distribution 325–363. See also distribution
ontology 111, 117, 121, 129–130, 141, 145, 260, 291
OPENDRAMA 13–15, 27
Open Mobile Alliance (OMA) 252, 264–267, 276, 280, 291, 332, 350
opera 151–166
optical character recognition (OCR) 52, 54–55
optical music recognition 80–110
optical music recognition (OMR) 51–76, 81–83
Orff approach, the 233
Organization for the Advancement of Structured Information Standards (OASIS) 253, 322, 331–332

P
P2P networks 369
peer-to-peer networks (P2P) 288, 299, 313, 314, 326, 338
perceptual hashing 297–300
PIANOTUTOR 13
player-instrument interaction 171–174
PLAYPRO 13, 27
positional grammar 100–101
positioning engine 22

R
Real Networks DRM 254, 268, 282, 327, 343, 349–350
restoration 50–79
reusability 121–123
Rights Data Dictionary (RDD) 255–256, 260–262, 273, 281
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>rights description languages 290–291</td>
</tr>
<tr>
<td>rights expression languages (RELs) 249, 251, 269, 269–279, 280</td>
</tr>
<tr>
<td><strong>S</strong></td>
</tr>
<tr>
<td>scalability 121–123</td>
</tr>
<tr>
<td>scalable vector graphics (SVG) 74</td>
</tr>
<tr>
<td>SCORE 11, 137</td>
</tr>
<tr>
<td>score rendering 21</td>
</tr>
<tr>
<td>Secure Digital Music Initiative (SDMI) 333, 349</td>
</tr>
<tr>
<td>segmentation 76, 78, 85–95</td>
</tr>
<tr>
<td>set-top boxes (STB) 15</td>
</tr>
<tr>
<td>SharpEye music OCR system 55–65</td>
</tr>
<tr>
<td>SICStusJasper 237</td>
</tr>
<tr>
<td>SMARTSCORE 13, 27</td>
</tr>
<tr>
<td>SMR formatting language (SM-FL) 39–45</td>
</tr>
<tr>
<td>SMR synchronization information (SM-SI) 45</td>
</tr>
<tr>
<td>Society of Motion Picture and Television Engineers (SMTPE) 333</td>
</tr>
<tr>
<td>sound synthesis 167–194</td>
</tr>
<tr>
<td>standard generalized markup language (SGML) 112, 121, 123, 124, 129,</td>
</tr>
<tr>
<td>134, 135–136</td>
</tr>
<tr>
<td>STARBAK Torrent Origin Streaming Appliance 351</td>
</tr>
<tr>
<td>student model, the 236</td>
</tr>
<tr>
<td>substitution algorithm 292</td>
</tr>
<tr>
<td>Suzuki Talent Education, the 233</td>
</tr>
<tr>
<td>symbolic music extensible format (SM-XF) 28–39</td>
</tr>
<tr>
<td>symbolic music information (SMI) 142</td>
</tr>
<tr>
<td>symbolic music representation (SMR) 3, 12–25, 26–49</td>
</tr>
<tr>
<td>symmetric encryption methods 291–292</td>
</tr>
<tr>
<td>synchronized multimedia integration language (SMIL) 140–141</td>
</tr>
<tr>
<td><strong>T</strong></td>
</tr>
<tr>
<td>theatre 151–166</td>
</tr>
<tr>
<td>tutor model, the 236</td>
</tr>
<tr>
<td>TV-Anytime 252, 266–267, 280, 282, 331, 333</td>
</tr>
<tr>
<td><strong>V</strong></td>
</tr>
<tr>
<td>video instrument 151, 161</td>
</tr>
<tr>
<td>vignere method 292</td>
</tr>
<tr>
<td>virtual communities 224</td>
</tr>
<tr>
<td>virtual reality 223–224</td>
</tr>
<tr>
<td>VOYETRA 13, 27</td>
</tr>
<tr>
<td><strong>W</strong></td>
</tr>
<tr>
<td>watermarking 294–297</td>
</tr>
<tr>
<td>Web-based music intelligent tutoring system (WMITS) 231–248</td>
</tr>
<tr>
<td>Web Services Interoperability Organization (WS-I) 333</td>
</tr>
<tr>
<td>WEDELMUSIC 4, 10–11, 13, 14, 24–25, 27, 40, 48, 80, 82, 85, 108, 142,</td>
</tr>
<tr>
<td>320, 352</td>
</tr>
<tr>
<td>WEDELMUSIC XML 80, 85</td>
</tr>
<tr>
<td>Windows Media DRM 254, 267, 280, 312, 346–347, 349–350</td>
</tr>
<tr>
<td>World Intellectual Property Organization 284, 331, 333, 334, 344</td>
</tr>
<tr>
<td><strong>X</strong></td>
</tr>
<tr>
<td>XML 138–140</td>
</tr>
<tr>
<td>XML-family 146</td>
</tr>
<tr>
<td>XML music notation 26–49</td>
</tr>
<tr>
<td>Xtensible rights Markup Language (XrML) 269</td>
</tr>
</tbody>
</table>