

Author Index

A

Aakhus, M., 50
Abel, R. L., 51
Agnoloni, T., 26, 41, 146, 152, 224
Ajani, G., 136, 139
Alan, O., 266
Albani, A., 236
Aldrich, A., 50
Aleven, V., 105, 108, 110
Allen, L. E., 147
Almond, G., 52
Alter, S., 235–236, 238, 243, 253, 256
Álvarez, R., 54–55
Antoniou, G., 15
Ashley, K., 100, 105–106, 108–110, 112–113
Atkinson, K., 101, 113
Austin, J., 30
Austin, J. L., 85
Avaro, O., 264
Ayuso, M., 54–55

B

Bacci, L., 154, 224–225
Bachimont, B., 120
Badii, R., 122
Baida, Z., 235, 237–238
Baker, C. F., 155, 202, 214
Baldassarre, C., 205
Bales, M. E., 24
Ballan, L., 259
Baron, J. R., 260
Bartolini, R., 228
Basili, R., 204
Bechhofer, S., 73
Becker, H., 250
Bench-Capon, T., 101, 105, 110, 112–113
Benjamins, V. R., 55
Bentham, J., 222
Berman, D., 101, 112

Berners-Lee, T., 73, 261
Bertini, M., 265–266
Biagioli, C., 219, 222, 225, 228
Biasiotti, M. A., 1–13, 143–164
Bizer, C., 203, 205
Blankenburg, E., 53
Blázquez, M., 59
Blomqvist, E., 201–216
Boella, G., 133–140
Boer, A., 169
Bottazzi, E., 165
Boulet, R., 117–131
Bourcier, D., 117–131
Bourigault, D., 120
Branting, L. K., 108, 110–111
Bratman, M. E., 88
Breuker, J., 4, 69–80, 100, 105, 111–113, 134, 148–149, 219–221
Brickell, J. L., 259
Brockman, J., 180
Brüninghaus, S., 105, 108, 110, 112
Buchanan, B., 50
Buckley, C., 226
Buitelaar, P., 150, 220, 230
Burchardt, A., 214
Bussler, C., 235–236
Bylander, T., 221

C

Cardoso, J., 4
Casanovas, P., 1–13, 16–17, 49–64, 117, 267
Casati, R., 96
Casellas, N., 17, 49–64, 76, 186, 221
Castelfranchi, C., 239, 251
Cauvet, C., 240
Chandrasekaran, B., 221
Chang, H., 264
Chang, S., 264
Chesbrough, H., 235–236, 238

Chorley, A., 105, 110, 112
 Cimiano, P., 220, 230
 Clancey, W. J., 16, 54, 221
 Clark, P., 203
 Collins, H., 28–29
 Colombetti, M., 239
 Contini, F., 53
 Coppola, B., 204, 213–214
 Cornu, G., 34–35, 37
 Cunningham, J., 7

D

Dasiopoulou, S., 266
 Davies, J., 9
 De Kleer, J., 72
 Delgado, J., 204, 206
 Derrida, J., 89–90
 De Soto, H., 94
 Després, D., 120
 Desprès, S., 118
 Dézalay, Y., 51
 Díez- Picazo, L., 42
 Di Lucia, P., 85
 Doat, M., 117
 Dolbey, A., 156
 Dong, A., 262–263, 266
 Dumas, M., 238

E

Eisenberg, M., 110
 Elias, S., 181
 Eraut, M., 16
 Euzenat, J., 204, 220

F

Fabri, M., 53
 Falcone, R., 251
 Falkenhainer, B., 108
 Feigenbaum, E. A., 50
 Feinerer, I., 57
 Fellbaum, C., 150, 191
 Fensel, D., 4, 236
 Fernández-Barrera, M., 1–13, 15–45, 235–256
 Ferraioli, L., 145
 Ferrario, R., 235–256
 Ferraris, M., 83–95
 Fillmore, C. J., 155, 202
 Forbus, K. D., 204, 206
 Forsyth, D. E., 50
 Foskett, D. J., 184
 Fox, M., 213
 Francesconi, E., 26, 147, 154, 219–230
 Friedman, L. M., 51–52

G

Gangemi, A., 70, 73, 134, 149, 159–160,
 201–216, 219
 García, R., 206
 Gaudemet, J., 30
 Georgakopoulos, D., 235
 Ghosh, H., 264
 Gilardoni, L., 204
 Gilbert, M., 85
 Gómez-Pérez, A., 49, 58, 150
 González-Conejero, J., 259–269
 González, J., 260
 Gordon, T., 101
 Gospodnetic, O., 190
 Gracia, C., 267
 Gray, J., 30
 Gronroos, C., 245
 Grosso, G., 30
 Gruber, T., 72, 134, 186, 201, 219, 261
 Grüninger, M., 213
 Guarino, N., 41, 120, 135, 219, 235–256, 261
 Guzelian, G., 240

H

Hafner, C., 101, 112
 Hage, J., 52
 Halmos, P. R., 123
 Hamscher, W. C., 72
 Harman, D. K., 187
 Hart, H. L. A., 222
 Hartmann, J., 210
 Hatcher, E., 190
 Hauser, M., 78, 80
 Hayaert, V., 25
 Hayes, P., 72
 Herget, 30, 40
 Hill, T. P., 241, 246, 254
 Hirst, G., 152
 Hoekstra, R., 69–80, 105, 111–113, 219–221
 Hohfeld, W. N., 30, 222, 249
 Holland, T., 30
 Holmes, O. W., 30, 40
 Horrocks, I., 73
 Hunter, J., 264

I

Ianella, R., 120
 Isaac, A., 120

J

Jackson, S., 50
 Jacobs, S., 50
 Jaimés, A., 260, 265
 Janssen, M., 235

Jarrar, M., 163
 Jennings, N. R., 239
 Johansson, I., 85
 Johnson, S., 24

K

Kellogg, F. R., 39
 Kelsen, H., 222
 Kim, J., 85
 Koeppell, D. R., 92
 Kolodner, J., 113
 Koppaka, L., 117
 Koskela, M., 268

L

Laera, L., 112
 Lakoff, G., 74
 Lame, G., 118, 220
 Langdell, C., 30
 Langer, A. M., 259
 Lanzara, G. F., 53
 Lehtinen, J. R., 245
 Lehtinen, U., 245
 Lenat, D. B., 70
 Lenci, A., 230
 Lenzerini, M., 235
 Levelt, W. J. M., 74–75
 Liebwald, D., 181, 186, 194
 Li, H., 262–263, 266
 Lindahl, L., 106
 Lucy, W., 248
 Lupo, C., 167

M

MacCormick, D., 110
 Mandala, R., 187
 Manning, C. D., 194
 Manzano-Macho, D., 150
 Martin, D., 50
 Masolo, C., 42–43, 239
 Mazzega, P., 117–131
 McCarthy, J., 72
 McCarty, L. T., 110, 134, 241
 McGuinness, D. L., 58, 203–204
 McLaren, B., 111
 McLaren, M., 108
 McManus, C., 79
 Mezaris, V., 265
 Milton, N., 58
 Moore, M. S., 85, 202
 Moss, L. S., 86
 Motta, E., 4
 Mulligan, K., 85

N

Nadah, N., 117–131
 Narayanan, S., 155
 Niles, I., 70, 73
 Noy, N. F., 58

O

Ong, W. J., 90
 Ost, F., 122
 O’Sullivan, J., 238, 244

P

Palmirani, M., 167–178
 Papazoglou, M. P., 235
 Parasuraman, A., 245
 Passerini, A., 225
 Pease, A., 70, 73
 Peczenik, A., 52
 Pedersen, J. O., 225
 Pérez-Perdomo, R., 52
 Peters, W., 151, 206
 Petridis, K., 266
 Petrie, C., 235
 Picca, D., 164
 Pinkal, M., 220, 230
 Pinker, S., 74, 78
 Pistore, M., 235
 Poblet, M., 50, 54
 Polanyi, M., 15
 Politi, A., 122
 Porter, B., 203
 Prakken, H., 108
 Presutti, V., 201–216
 Puchta, G. F., 35

Q

Quaresma, P., 220
 Quinlan, J. R., 225

R

Rawls, J., 222
 Raz, J., 222
 Reid, Th., 85
 Reinach, A., 85
 Renauld, J. G., 28, 38
 Ricciardi, M., 223
 Rissland, E. L., 105,
 110, 113
 Rodotà, S., 95
 Roman, D., 236,
 245–246
 Ross, A., 145, 222
 Rossi, P., 133–140
 Roth, B., 109

S

Sabou, M., 4
 Sacco, R., 16
 Saïas, J., 220
 Salembier, P., 264
 Salmond, J. W., 30
 Salton, G., 226
 Sancho-Ferrer, A., 180
 Sandberg, J., 16
 Sartor, G., 1–13, 15–45,
 110, 113
 Sasser, W. E. J., 245
 Schreiber, G., 58, 72
 Schreiber, A. Th., 72
 Schütze, H., 57
 Searle, J. R., 86–88, 90, 221
 Sebastiani, F., 225
 Shaheed, J., 134
 Shvaiko, P., 204, 220
 Sikora, T., 264
 Singer, J., 102
 Singh, M. P., 239
 Skalak, D. B., 105,
 110, 113
 Slezak, P., 16
 Smeulders, A., 259
 Smith, B., 2, 85–86, 89, 93
 Snoek, C. G., 259–260
 Sommerville, I., 50
 Sosa, E., 85
 Sowa, J. F., 70
 Spinosa, P., 146
 Spohrer, J., 235–236, 238
 Sridharan, N. S., 110
 Studer, R., 219
 Summers, R., 110
 Surden, H., 117
 Sure, Y., 49, 58
 Susskind, R., 187
 Sycara, K., 235
 Szulman, S., 120

T

Talamanca, M., 30
 Tamanaha, B. Z., 51
 Taylor, H., 30
 Terlouw, L., 236
 Thagard, P., 24, 28
 Thompson, P., 260
 Tiscornia, D., 52, 143–164
 Tomela, R., 88
 Traverso, P., 235
 Troncy, R., 120

Trubek, D. M., 51

Turchi, F., 219

V

Valente, A., 4, 134
 Vallbé, J. -J., 49–64
 Van de Kerchove, M., 122
 Van De Velde, W., 72
 Van de Ven, S., 73, 80
 Van Harmelen, F., 15, 203–204
 Van Heijst, G., 72, 221
 Van Kralingen, R., 148
 Varzi, A., 41
 Vembu, S., 265
 Venturi, G., 41, 155, 202
 Verba, S., 52
 Verdicchio, M., 239
 Verheij, B., 52, 109
 Vernengo, R. J., 29
 Vetere, G., 235
 Vico, G. B., 85
 Visser, P. R. S., 219
 Vitali, F., 167–178
 Vogel, C., 136
 Voorhees, E. M., 187
 Vossen, P., 150, 151

W

Wagenaar, R., 235
 Walter, S., 220
 Walton, D., 101
 Weigand, H., 236
 Weld, D., 72
 Welty, C., 41, 120
 West, M., 77
 Wieacker, F., 29
 Wielinga, B., 16
 Wilkins, J., 71
 Williamson, T., 88
 Woods, W. A., 24
 Wyner, A., 99–100, 105–106, 108, 110

X

Xin, C., 260

Y

Yang, Y., 225
 Yip, A., 7

Z

Zarri, G., 113
 Zhang, P., 117
 Zha, Z. -J., 117, 260

Concepts Index

A

Acts, 90, 92, 94, 261, 266
Agent, 2–3, 13, 26–27, 42–43, 70, 78, 93,
117–118, 136, 139, 147, 149, 156–157,
160, 196–198, 201–202, 206–207, 214,
236–240, 242, 244–245, 247–249, 251,
253, 255, 260, 262
ALCESTE, 59
Analogy, 88, 103, 109, 112
AntConc, 59–60

B

Browsing, 184–185, 196–197, 264

C

Case-based reasoning, 11, 99–114
CATO, 108, 110
Causality, 6, 22, 78
CBR ontology, 100, 104, 106,
110–113
CEN Metalex standard, 12
Classification, 7, 12, 23–24, 28, 30–36,
39–41, 44, 59–60, 74, 86, 146–149,
152, 180, 184–185, 197–198,
204–206, 222, 224–225, 242, 251, 260,
267–268
CLO ontology, 8
Codolight, 203
Cognitive science, 3, 10, 16, 69–80, 202
Cognitive walkthrough, 63–64
CommonKADS, 72
Common knowledge, 50
Complex systems, 10–11, 117–131, 236
Computational artifacts, 201–203
Computational models, 110, 113,
148–149
Computational patterns, 201–216
Contexts, 3, 10, 17–19, 22, 24, 29, 53–54, 59,
69, 74, 76, 107, 112, 114, 117, 123–124,

128, 130–131, 134–135, 138–139,
143–148, 151, 154–156, 160, 164, 181,
192, 198, 202–205, 236, 240, 242, 246,
249, 252, 254, 265

Contextual ontologies, 4, 131
Core ontologies, 5, 8, 11, 52, 59, 69–70, 73,
77–78, 123, 134, 145, 148–149
CYC ontology, 70

D

Definition, 2–3, 11–12, 15, 18–19, 22–28,
49, 69, 72, 76, 79, 92, 99, 109,
120, 123–125, 134, 136, 138–139,
144, 146–148, 150, 152, 154–155,
157–164, 169–172, 174–175, 177, 186,
197, 206–207, 221, 227, 230, 235,
237–238, 240, 243, 247–248, 256, 261,
264–265

Dialectic systems, 4
Differential ontology editor, 119–121
DILIGENT, 49
Documentality, 83–95
DOLCE, 4–5, 42–43, 70, 73, 149, 239,
241, 244
Domain Independent Legal Knowledge
(DILK), 12, 222–224, 230
Domain knowledge (DK), 6, 12, 72, 159,
221–222, 224, 230
Domain ontologies, 5, 26, 45, 72–73, 77,
100, 105–106, 113, 145, 149, 156, 230,
265–266, 269

E

e-commerce, 134, 185
e-discovery, 260, 268
e-government, 50
Enactive web, 118, 131
Ethnography, 50

- Events, 2, 9, 12–13, 16, 20, 29, 33, 41–43, 50, 72, 84, 86–87, 94, 107, 117, 123–128, 135, 137, 147–149, 155, 172, 214, 237–242, 244–247, 250, 252–256, 260–261, 264–265, 267, 269
- Expert knowledge, 12, 53, 197
- Explicit knowledge, 15
- F**
- FOLaw ontology, 134
- Folksonomy, 219–220
- Formal ontology, 13, 41, 70–71
- Frames, 154–157, 159–160, 202–203, 213–215, 259
- G**
- Goal, 3, 13, 17, 38, 43–44, 99–100, 102–107, 110, 112, 114, 118, 120, 149, 155, 163, 186–188, 197, 235–237, 240–241, 253–255
- H**
- Heuristic evaluation, 63
- I**
- Indexes, 5–6, 58, 75, 119, 151, 179, 181–191, 193, 196–199, 208, 210, 227–228, 260, 265–266
- Information retrieval, 1, 3, 5–6, 23, 133, 179, 185–187
- Integrated pragmatic cycle, 63
- Intermediate legal concepts, 106–108, 113
- Interoperability, 1, 6–7, 11, 133–136, 170, 221, 235
- ITC for Lawyers, 4
- J**
- Judicial knowledge, 6, 53, 57–60
- K**
- Knowledge acquisition, 5, 10, 49–51, 54–60, 63, 152, 219–230
- Knowledge modelling, 58, 219–222, 230
- L**
- Legal anthropology, 16, 135
- Legal arguments, 99–114
- Legal concept, 2–3, 7, 10, 12, 17–18, 20–25, 27–30, 32, 34, 38, 41–42, 44–45, 52, 80, 106–108, 113, 124, 131, 143–145, 147–149, 152, 164, 193, 222
- Legal content, 10, 22–24, 37, 118, 135–136, 259
- Legal culture, 50, 52–53, 138
- Legal doctrine, 3, 10, 15–17, 20, 23–24, 27–30, 32, 37–43, 45, 131, 135
- Legal document modelling (LDM), 167–178
- Legal interpretation, 17–18, 21, 23, 60, 138–140, 164, 204
- Legal knowledge, 2, 5, 10–13, 15–17, 23, 41, 49, 51–52, 63, 113, 117–131, 135–136, 138, 143–144, 148, 153, 157, 167–168, 171, 202, 204–205, 219–220, 222–223, 230
- Legal Metadata Interchange Framework (LMIF), 168, 170, 175
- Legal methodology, 16, 51
- Legal Multimedia, 259–269
- Legal norms, 18–23, 38, 52, 135, 140, 219
- Legal ontologies, 1–13, 15–18, 23, 41, 43–45, 49–64, 69–80, 104, 117–119, 122–123, 127, 130–131, 133–134, 138–139, 143–164, 167–178, 204–205, 219, 230, 269
- Legal patterns, 135
- Legal pluralism, 10, 51–52
- Legal reasoning, 17, 20, 28, 73, 99–100, 108–110, 113–114, 117, 202, 220
- Legal rules, 3, 12–13, 16, 28, 52, 106, 113, 120, 133, 135, 138, 143–144, 219–222, 230, 250
- Legal Taxonomy Syllabus, 136, 138
- Legal theory, 2, 4, 10, 15–45, 51–52, 60, 119, 145, 149, 215
- Lexical layer, 153–154, 224
- Lexical meaning, 12, 157, 161–162, 164
- LIDO, 12, 168, 170–178
- Linguistic corpus, 130
- LKIF ontology, 5, 78, 149
- LLD ontology, 134
- LMIF, *see* Legal Metadata Interchange Framework (LMIF)
- Local Context Analysis, 22–23
- Logic, 7, 30, 70, 72, 180, 190, 206, 259
- LRI-core ontology, 5
- M**
- Mapping, 12, 40–43, 112, 118, 122–130, 137, 140, 144, 150, 155–157, 160, 164, 169, 174–175, 178, 187–189, 220, 230
- Metadata, 52, 167–170, 173–175, 177–178, 180, 183–185, 194, 196, 198–199, 223, 266, 269
- Metalex, 12, 167–171, 173–176, 178, 225
- METHONTOLOGY, 49
- Model Based Reasoning (MBR), 72, 75
- Monitoring, 137, 153, 240, 246, 252
- MPEG-7, 13, 264–267, 269
- Multi-agent systems (MAS), 118

- Multi-layered perspective, 133–140
 Multimedia ontologies, 13, 259–269
- N**
 Natural language processing (NLP), 1, 26, 72, 75–76, 150, 159, 220, 228
 Networks, 21, 23–24, 27, 29–30, 40, 45, 54, 63, 108, 111, 117–131, 150–151, 158, 203, 222
 Neurona ontology, 50, 261–262
- O**
 OntoGEN, 59
 Ontological engineering, 2, 69–70
 Ontological layer, 144, 154, 224
 Ontological methodology, 2
 Ontology building, 4, 10, 12, 17, 44, 49, 53, 63, 117–119, 121–122, 128, 130, 150
 Ontology design patterns (ODP), 12, 144, 157, 203, 206–207, 214
 Ontology merging, 77, 151
 ONTOMEDIA ontology, 50
 OPJK ontology, 10, 54, 60, 63
 OWL language, 5–8, 41, 60, 73, 75–76, 80, 101–102, 110, 121, 134, 152, 154, 169, 177–178, 203–204, 207, 210, 214–215, 221, 264, 269
- P**
 Physical objects, 11, 26–27, 43, 79, 83–84, 87–93
 Pragma-dialectics, 50
 Pragmatics, 10, 18, 50
 Probability, 118, 123–130, 137, 268
 Procedural model, 11, 133, 136, 139
 Professional knowledge, 16, 53–54, 56, 58
 Protégé, 5–6, 60–61, 121
- R**
 RDF language, 5–7, 73, 76, 134, 168–170, 173–176, 178, 204, 210, 221, 266
 Reusability, 9, 41, 206, 221
 Right Data Dictionaries (RDD), 120
 Role, 2–9, 11–13, 28, 33, 41, 57, 69, 77, 79, 87, 90, 93, 95, 99–100, 104, 110, 112–114, 133, 135–137, 139, 144–145, 148–149, 151, 154–157, 160, 164, 167, 169, 185, 190–191, 206–208, 220, 223–224, 228–230, 236–237, 245, 247, 249, 251, 253, 255, 268
- S**
 Scalability, 4
 Scenarios, 53, 101, 105, 110, 112, 114, 136–140, 148, 155, 157, 168, 202, 245
- Search engines, 12, 179–181, 183, 185–189, 191, 193, 196–197, 199, 219
 Semantic annotation, 155, 170, 175, 219, 229, 259–269
 Semantic expansion, 186, 192–194, 196
 Semantic Legal Web Services (SLWS), 4
 Semantic relations, 18, 24, 26–27, 29, 32–37, 39, 41, 44, 144, 151, 158
 Semantic web, 1, 4, 9, 69, 73, 75, 131, 186, 202–203, 221, 236, 261, 266, 269
 Service-oriented Architectures (SOA), 9
 Service responsibility tables, 244, 253–254
 Services science, 235–256
 Shared knowledge, 119, 219, 221, 261, 265
 Situated knowledge, 16
 Situated meaning, 10
 Social objects, 11, 26–27, 42–43, 83–95
 Social patterns, 49–50, 53, 203, 205
 Socio-legal approach, 10, 17, 50, 53
 Sources of law, 20, 50
 SPARQL, 204, 209
 SUMO, 4, 70, 73, 77, 79
 Systems of concepts, 27–29, 32–33, 36, 39, 45
- T**
 Tacit knowledge, 16
 Task ontology, 11–12, 51, 105–106, 133–134, 201–202, 230
 Taxonomy, 24, 26–27, 39, 43, 59, 71, 120, 136, 138, 150, 184–185, 198, 205
 TextToOnto, 59
 Thesaurus, 71, 120, 163, 179–199, 222
 Top ontologies, 4, 52, 71, 76–79
- U**
 Users, 9, 53–54, 56, 58, 60, 121, 159, 179, 180–182, 184–185, 187–188, 190, 192–199, 208–212, 239, 260, 264
- V**
 Vision, 9, 71, 95, 139, 236, 260
- W**
 W3C standards, 264
 Web 2.0 (Social Web), 4, 9, 63
 Web 3.0 (Web of Data), 4, 9, 63, 73
 Web Services, 4, 9, 56, 235–236, 238, 244
- X**
 XD (eXtreme Design), 203, 207–215
 XD methodology, 208–209, 212–213
 XML, 6, 76, 134, 167–170, 173–178, 224–225, 265
- Y**
 Yoshikoder, 59–60