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Acronyms

AI artificial intelligence. 15, 118, 122, 153, 157

ALICE Artificial Intelligence and Cognitive Engineering. iv, 13

ANN artificial neural network. 25, 26, 27, 81

API Application Programming Interface. 35, 63, 64, 74

BHL Biodiversity Heritage Library. 35, 61, 78, 79, 98, 101, 105, 110, 117, 118, 121

BLSTM bilateral long short-term memory network. 28, 43, 45, 82, 83, 84, 86, 87

CE Concatenated Embedding. 101

CH cultural heritage. 50

CNN convolutional neural networks. 27, 28, 81, 82, 84, 85, 86, 87, 94, 99

COL Catalogue of Life. 117

DC Dublin Core. 61, 62

DIAR Document Image Analysis and Recognition. 77, 79

DNN deep (artificial) neural network. 25, 26, 28

DSW Darwin Core Semantic Web. 53, 54, 56, 57, 58, 63

DwC Darwin Core. 31, 41, 42, 53, 54, 56, 57, 58, 61, 62, 63, 64, 79

EOL Encyclopedia of Life. 35

FAIR Findable, Accessible, Interoperable, and Reusable. 8, 10, 31, 48, 49, 120, 121, 122, 148, 150

Acronyms

FOAF Friend Of A Friend. 59

FP Fused Prototype. 92, 98, 102, 116

FSL few-shot learning. 28, 29, 102

GBIF Global Biodiversity Data Facility. 35, 42, 62, 96, 98, 101, 105, 117, 121

GLAMs Galleries, Libraries, Archives and Museums. 37, 40, 42, 45

GZSL generalised zero-shot learning. 94, 95, 112, 114

HMM Hidden Markov Model. 43

HPL Hierarchical Prototype Loss. 92, 98, 102, 103, 112, 116

HTR Handwritten Text Recognition. 6, 13, 38, 39, 41, 43, 44, 45, 46, 77, 78, 79, 81, 88, 121, 122

IIIF International Image Interoperability Framework. 72, 74

IRI Internationalised Resource Identifier. 8, 33, 39, 48, 50, 52, 53, 54, 60, 62, 63, 65, 67, 68, 85

IUCN International Union for Conservation of Nature and Natural Resources. 35

JSON JavaScript Object Notation. 64

KRR knowledge representation and reasoning. 22, 30, 119

LCDS Leiden Centre of Data Science. iv

LD Linked Data. 30, 48

LIACS Leiden Institute of Advanced Computer Science. iv, 13, 153, 157, 158

LINNAE Linking Notes of NATurE. 11, 72, 159

LOD Linked Open Data. 11, 120

LSTM long short-term memory network. 28, 83

MIDS Minimum Information about a Digital Specimen. 47

MLP multi-layer perceptron. 26, 27, 28, 82, 84, 86, 87

- MODS** Metadata Object Description Schema. 61
- NBC** Naturalis Biodiversity Center. iv, 1, 2, 3, 13, 18, 36, 54
- NC** Committee for Natural History of the Netherlands Indies (“Natuurkundige Commissie voor Nederlands-Indië”). 1, 2, 13, 20, 35, 51, 66, 72, 88
- NCD** Natural Collections Description. 41, 61, 62
- NCO** Natural Committee Online. 13
- NER** named entity recognition. 45
- NERC** named entity recognition and classification. 7, 11, 22, 24, 44, 46, 48, 75, 78, 79, 82, 120, 121
- NHC** natural history collection. i, 3, 5, 6, 7, 9, 10, 11, 12, 13, 17, 34, 47, 49, 54, 56, 57, 60, 61, 62, 63, 68, 69, 77, 78, 81, 83, 87, 89, 117, 118, 119, 120, 121, 122, 147
- NLP** natural language processing. 38, 44, 75
- NMNH** Smithsonian National Museum of Natural History. 61
- OBIE** ontology-based information extraction. 45
- OCR** Optical Character Recognition. 6, 35, 39, 43, 79
- OOV** out-of-vocabulary. 6
- OWL** Web Ontology Language. 33, 50, 52, 83
- PNL** Prototypical Network Loss. 99, 103, 112
- RDF** Resource Description Framework. 8, 33, 34, 45, 53, 59, 64, 74, 85, 87, 88
- RNN** recurrent neural network. 28
- ROI** region of interest. 39, 40, 43, 46, 63, 64, 67
- SFB-Annotator** Semantic Field Book Annotator. 11, 50, 61, 63, 65, 66, 71, 72, 74, 117, 120, 122, 148, 150
- SGD** Stochastic Gradient Descent. 99
- SIA** Smithsonian Institution Archives. 61
- SNERC** salient named entity recognition and classification. 11, 12, 52, 65, 78, 120, 122

Acronyms

SPARQL SPARQL Protocol and RDF Query Language. 8, 34, 68, 69, 71, 72, 74, 87

STePS Department of Science, Technology, and Policy Studies. iv, 13

SVM Support Vector Machine. 107, 108

t-SNE t-Distributed Stochastic Neighbour Embedding. 106, 107, 115

TDWG Biodiversity Information Standards. 35, 47

TEI Text Encoding Initiative. 41

TNS Taxonomic Name Server. 79

URI Uniform Resource Identifier. 8, 21, 33, 34, 46

URL Uniform Resource Locator. 8, 33

VGG Visual Geometry Group. 81, 82

VIAF Virtual International Authority File. 48, 59, 65

W3C World Wide Web Consortium. 33, 52, 60

XML Extensible Markup Language. 31, 32, 41, 42, 61

ZICE Zoological Illustration and Class Embedding. 12, 92, 95, 97, 98, 106, 115

ZSL zero-shot learning. 6, 12, 25, 28, 29, 91, 92, 93, 94, 95, 96, 98, 99, 105, 109, 111, 112, 114, 116, 121, 122, 151