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Stork, L.

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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, 83
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** LLinking 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
Acronyms

**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-Annnotator** 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