

Table S1 Clusters of the top 120 keywords in deep learning applied to ophthalmology

Cluster	Keywords	Occurrences
1	Deep learning	1,530
	Convolutional neural network	658
	Segmentation	561
	Retinal image	498
	Image	493
	Glaucoma	297
	Diagnosis	222
	Retinal vessel segmentation	190
	Networks	160
	Retinal vessel	153
	Optic disc	138
	Model	102
	U-Net	87
	Features	65
	Medical image	65
	Boundaries	52
	Optic cup	43
	Attention mechanism	42
	Filter	38
	Net	36
	Optic cup segmentation	34
	Extraction	30
	Architecture	29
	Medical image processing	29
	Fundus	28
	Nerve head	28
	Framework	27
	Transformer	27
	Attention	25
	Medical image segmentation	23
	Optic disc segmentation	23
	Feature fusion	22
	Vision transformer	21
	Glaucoma screening	20
2	Diabetic retinopathy	797
	Artificial intelligence	399
	Validation	306
	Eye disease	227
	Prevalence	204
	Ophthalmology	189
	Machine learning	172
	Algorithm	129
	Risk-factors	83
	Prediction	70
	Risk	65
	Global prevalence	46
	Agreement	44
	Population	43
	Open-angle glaucoma	42
	Teledermatology	39
	Age	38
	Blindness	37
	Myopia	36
	Photography	36
	Cataract	35
	Epidemiology	34
	Accuracy	32
	Automated diagnosis	27
	Cornea	27
	Visual impairment	26
	Screening	25
	Performance	24
	Vision	24
	Support vector machine	23
	Keratoconus	22
	Retinopathy of prematurity	22
	Children	21
3	OCT	567
	Retinal layers	155
	Macular degeneration	136
	AMD	101
	Progression	100
	Thickness	94
	Diabetic macular edema	87
	OCTA	87
	Degeneration	68
	Quantification	66
	Fluid	57
	Ranibizumab	49
	Outcomes	41
	Management	39
	Association	36
	Edema	32
	Geographic atrophy	32
	Visual-acuity	31
	Fluorescein angiography	29
	Area	24
	Choroidal neovascularization	24
	Enhancement	23
	Artifacts	22
	Impact	22
	Morphology	22
	Sensitivity	22
	Biomarkers	21
	Damage	21
	Visual field	21
	Subretinal fluid	20
4	Classification	474
	Retina	196
	Retinal diseases	164
	Automated detection	125
	Transfer learning	123
	Feature extraction	117
	Diabetes	71
	Computer-aided detection	67
	Macular edema	60
	Generative adversarial network	59
	Image analysis	52
	Image processing	51
	Training	47
	Identification	46
	Visualization	37
	Lesions	36
	Semantic segmentation	33
	Task analysis	32
	Microaneurysm	31
	Medical image analysis	29
	Data augmentation	28
	Computer vision	24
	Ensemble learning	21

OCT, optical coherence tomography; AMD, age-related macular degeneration; OCTA, optical coherence tomography angiography.