

David Dagan Feng

List of Publications by Year in descending order

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150
papers

4,666
citations

101384

36
h-index

118652

62
g-index

151
all docs

151
docs citations

151
times ranked

4478
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsupervised Landmark Detection-Based Spatiotemporal Motion Estimation for 4-D Dynamic Medical Images. IEEE Transactions on Cybernetics, 2023, 53, 3532-3545.	6.2	2
2	Affective Audio Annotation of Public Speeches with Convolutional Clustering Neural Network. IEEE Transactions on Affective Computing, 2022, 13, 238-249.	5.7	2
3	Automatic Detection and Classification System of Domestic Waste via Multimodel Cascaded Convolutional Neural Network. IEEE Transactions on Industrial Informatics, 2022, 18, 163-173.	7.2	59
4	Machine Learning-Based Noninvasive Quantification of Single-Imaging Session Dual-Tracer ¹⁸ F-FDG and ⁶⁸ Ga-DOTATATE Dynamic PET-CT in Oncology. IEEE Transactions on Medical Imaging, 2022, 41, 347-359.	5.4	8
5	ECSU-Net: An Embedded Clustering Sliced U-Net Coupled With Fusing Strategy for Efficient Intervertebral Disc Segmentation and Classification. IEEE Transactions on Image Processing, 2022, 31, 880-893.	6.0	20
6	Graph Convolutional Dictionary Selection With L_{∞} Norm for Video Summarization. IEEE Transactions on Image Processing, 2022, 31, 1789-1804.	6.0	9
7	Mixed-Weight Neural Bagging for Detecting m^6A Modifications in SARS-CoV-2 RNA Sequencing. IEEE Transactions on Biomedical Engineering, 2022, 69, 2557-2568.	2.5	4
8	Fused feature signatures to probe tumour radiogenomics relationships. Scientific Reports, 2022, 12, 2173.	1.6	3
9	Improving Breast Tumor Segmentation in PET via Attentive Transformation Based Normalization. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3261-3271.	3.9	2
10	DeepMTS: Deep Multi-Task Learning for Survival Prediction in Patients With Advanced Nasopharyngeal Carcinoma Using Pretreatment PET/CT. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4497-4507.	3.9	18
11	A New Aggregation of DNN Sparse and Dense Labeling for Saliency Detection. IEEE Transactions on Cybernetics, 2021, 51, 5907-5920.	6.2	10
12	Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2774-2788.	5.9	22
13	Keyframe Extraction From Laparoscopic Videos via Diverse and Weighted Dictionary Selection. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1686-1698.	3.9	9
14	A Spatial Guided Self-supervised Clustering Network for Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 379-388.	1.0	9
15	Patch Based Video Summarization With Block Sparse Representation. IEEE Transactions on Multimedia, 2021, 23, 732-747.	5.2	24
16	Hybrid Refinement-Correction Heatmaps for Human Pose Estimation. IEEE Transactions on Multimedia, 2021, 23, 1330-1342.	5.2	28
17	Short-Term Lesion Change Detection for Melanoma Screening With Novel Siamese Neural Network. IEEE Transactions on Medical Imaging, 2021, 40, 840-851.	5.4	25
18	Automatic identification of myopic maculopathy related imaging features in optic disc region via machine learning methods. Journal of Translational Medicine, 2021, 19, 167.	1.8	8

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19	Recurrent feature fusion learning for multi-modality pet-ct tumor segmentation. Computer Methods and Programs in Biomedicine, 2021, 203, 106043.	2.6	24
20	Automatic left ventricular cavity segmentation via deep spatial sequential network in 4D computed tomography. Computerized Medical Imaging and Graphics, 2021, 91, 101952.	3.5	6
21	Deciphering CT texture features of human visceral fat to evaluate metabolic disorders and surgery-induced weight loss effects. EBioMedicine, 2021, 69, 103471.	2.7	17
22	18F-FDG PET/CT Radiomics for Preoperative Prediction of Lymph Node Metastases and Nodal Staging in Gastric Cancer. Frontiers in Oncology, 2021, 11, 723345.	1.3	23
23	Fast Cryo-EM Image Alignment Algorithm Using Power Spectrum Features. Journal of Chemical Information and Modeling, 2021, 61, 4795-4806.	2.5	1
24	Modified GAN-CAED to Minimize Risk of Unintentional Liver Major Vessels Cutting by Controlled Segmentation Using CTA/SPET-CT. IEEE Transactions on Industrial Informatics, 2021, 17, 7991-8002.	7.2	9
25	Kernelized Mahalanobis Distance for Fuzzy Clustering. IEEE Transactions on Fuzzy Systems, 2021, 29, 3103-3117.	6.5	24
26	Similarity Based Block Sparse Subset Selection for Video Summarization. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3967-3980.	5.6	13
27	Cloud-Based Automated Clinical Decision Support System for Detection and Diagnosis of Lung Cancer in Chest CT. IEEE Journal of Translational Engineering in Health and Medicine, 2020, 8, 1-13.	2.2	73
28	Learning visual relationship and context-aware attention for image captioning. Pattern Recognition, 2020, 98, 107075.	5.1	98
29	Non-Contact Sleep Stage Detection Using Canonical Correlation Analysis of Respiratory Sound. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 614-625.	3.9	20
30	Vision-Based Freezing of Gait Detection With Anatomic Directed Graph Representation. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1215-1225.	3.9	43
31	Co-Learning Feature Fusion Maps From PET-CT Images of Lung Cancer. IEEE Transactions on Medical Imaging, 2020, 39, 204-217.	5.4	144
32	Image-based biomedical data modeling and parametric imaging. , 2020, , 461-521.		0
33	Illumination-Invariant Video Cut-Out Using Octagon Sensitive Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 1410-1422.	5.6	3
34	Machine learning in medical imaging. , 2020, , 167-196.		12
35	Video summarization via block sparse dictionary selection. Neurocomputing, 2020, 378, 197-209.	3.5	62
36	Graph Sequence Recurrent Neural Network for Vision-Based Freezing of Gait Detection. IEEE Transactions on Image Processing, 2020, 29, 1890-1901.	6.0	42

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37	Survey on Smoothed Particle Hydrodynamics and the Particle Systems. IEEE Access, 2020, 8, 3087-3105.	2.6	4
38	Biomedical image segmentation for precision radiation oncology. , 2020, , 295-319.		2
39	Content-based large-scale medical image retrieval. , 2020, , 321-368.		3
40	Biomedical image visualization and display technologies. , 2020, , 561-583.		1
41	Real-time hand posture recognition using hand geometric features and Fisher Vector. Signal Processing: Image Communication, 2020, 82, 115729.	1.8	14
42	Noninvasive Input Function Acquisition and Simultaneous Estimations With Physiological Parameters for PET Quantification: A Brief Review. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 676-683.	2.7	10
43	A Spatiotemporal Volumetric Interpolation Network for 4D Dynamic Medical Image. , 2020, , .		11
44	Combination Therapy Using Kartogenin-Based Chondrogenesis and Complex Polymer Scaffold for Cartilage Defect Regeneration. ACS Biomaterials Science and Engineering, 2020, 6, 6276-6284.	2.6	16
45	Multi-Label classification of multi-modality skin lesion via hyper-connected convolutional neural network. Pattern Recognition, 2020, 107, 107502.	5.1	63
46	VoxRec: Hybrid Convolutional Neural Network for Active 3D Object Recognition. IEEE Access, 2020, 8, 70969-70980.	2.6	4
47	OFF-eNET: An Optimally Fused Fully End-to-End Network for Automatic Dense Volumetric 3D Intracranial Blood Vessels Segmentation. IEEE Transactions on Image Processing, 2020, 29, 7192-7202.	6.0	37
48	Unsupervised Domain Adaptation to Classify Medical Images Using Zero-Bias Convolutional Auto-Encoders and Context-Based Feature Augmentation. IEEE Transactions on Medical Imaging, 2020, 39, 2385-2394.	5.4	27
49	A Residual Based Attention Model for EEG Based Sleep Staging. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2833-2843.	3.9	92
50	Automated Decision Support System for Lung Cancer Detection and Classification via Enhanced RFCN With Multilayer Fusion RPN. IEEE Transactions on Industrial Informatics, 2020, 16, 7791-7801.	7.2	51
51	Abnormality detection in retinal image by individualized background learning. Pattern Recognition, 2020, 102, 107209.	5.1	8
52	Chitosan modified Fe ₃ O ₄ /KGN self-assembled nanoprobe for osteochondral MR diagnose and regeneration. Theranostics, 2020, 10, 5565-5577.	4.6	22
53	Improving PET-CT Image Segmentation via Deep Multi-modality Data Augmentation. Lecture Notes in Computer Science, 2020, , 145-152.	1.0	6
54	SPST-CNN: Spatial pyramid based searching and tagging of liverâ€™s intraoperative live views via CNN for minimal invasive surgery. Journal of Biomedical Informatics, 2020, 106, 103430.	2.5	10

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55	Malocclusion Treatment Planning via PointNet Based Spatial Transformation Network. Lecture Notes in Computer Science, 2020, , 105-114.	1.0	2
56	Robust video summarization using collaborative representation of adjacent frames. Multimedia Tools and Applications, 2019, 78, 28985-29005.	2.6	3
57	Step-wise integration of deep class-specific learning for dermoscopic image segmentation. Pattern Recognition, 2019, 85, 78-89.	5.1	141
58	Retinal Vessel Segmentation Using Minimum Spanning Superpixel Tree Detector. IEEE Transactions on Cybernetics, 2019, 49, 2707-2719.	6.2	56
59	Deep Convolutional Neural Networks for Human Action Recognition Using Depth Maps and Postures. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1806-1819.	5.9	132
60	Segmenting Neuronal Structure in 3D Optical Microscope Images via Knowledge Distillation with Teacher-Student Network. , 2019, , .		24
61	Flexible Multi-Layer Semi-Dry Electrode for Scalp EEG Measurements at Hairy Sites. Micromachines, 2019, 10, 518.	1.4	34
62	A web-based multidisciplinary team meeting visualisation system. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 2221-2231.	1.7	4
63	Regularized Fuzzy Discriminant Analysis for Hyperspectral Image Classification With Noisy Labels. IEEE Access, 2019, 7, 108125-108136.	2.6	4
64	Improving Skin Lesion Segmentation via Stacked Adversarial Learning. , 2019, , .		16
65	Optimizing Contextual Feature Learning for Mitosis Detection with Convolutional Recurrent Neural Networks. , 2019, , .		4
66	Stacked Memory Network for Video Summarization. , 2019, , .		36
67	IntersectGAN. , 2019, , .		3
68	Learning Shared and Cluster-Specific Dictionaries for Single Image Super-Resolution. IEEE Access, 2019, 7, 120041-120051.	2.6	1
69	Unsupervised Deep Transfer Feature Learning for Medical Image Classification. , 2019, , .		27
70	Illumination-Guided Video Composition via Gradient Consistency Optimization. IEEE Transactions on Image Processing, 2019, 28, 5077-5090.	6.0	3
71	A direct volume rendering visualization approach for serial PET-CT scans that preserves anatomical consistency. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 733-744.	1.7	4
72	A study on multi-kernel intuitionistic fuzzy C-means clustering with multiple attributes. Neurocomputing, 2019, 335, 59-71.	3.5	29

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73	Liver Extraction Using Residual Convolution Neural Networks From Low-Dose CT Images. IEEE Transactions on Biomedical Engineering, 2019, 66, 2641-2650.	2.5	14
74	Convolutional sparse kernel network for unsupervised medical image analysis. Medical Image Analysis, 2019, 56, 140-151.	7.0	24
75	Multiple Kernel-Based Discriminant Analysis via Support Vectors for Dimension Reduction. IEEE Access, 2019, 7, 35418-35430.	2.6	8
76	Deep multi-modality collaborative learning for distant metastases predication in PET-CT soft-tissue sarcoma studies. , 2019, 2019, 3658-3688.		17
77	Feature covariance matrix-based dynamic hand gesture recognition. Neural Computing and Applications, 2019, 31, 8533-8546.	3.2	7
78	A propagation-DNN: Deep combination learning of multi-level features for MR prostate segmentation. Computer Methods and Programs in Biomedicine, 2019, 170, 11-21.	2.6	37
79	Fast and Accurate Retinal Identification System: Using Retinal Blood Vasculature Landmarks. IEEE Transactions on Industrial Informatics, 2019, 15, 4099-4110.	7.2	12
80	Video Summarization via Nonlinear Sparse Dictionary Selection. IEEE Access, 2019, 7, 11763-11774.	2.6	15
81	Knowledge-based Collaborative Deep Learning for Benign-Malignant Lung Nodule Classification on Chest CT. IEEE Transactions on Medical Imaging, 2019, 38, 991-1004.	5.4	317
82	Deep Color Guided Coarse-to-Fine Convolutional Network Cascade for Depth Image Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 994-1006.	6.0	86
83	Unsupervised Two-Path Neural Network for Cell Event Detection and Classification Using Spatiotemporal Patterns. IEEE Transactions on Medical Imaging, 2019, 38, 1477-1487.	5.4	14
84	Image-Aligned Dynamic Liver Reconstruction Using Intra-Operative Field of Views for Minimal Invasive Surgery. IEEE Transactions on Biomedical Engineering, 2019, 66, 2163-2173.	2.5	11
85	Deep gesture interaction for augmented anatomy learning. International Journal of Information Management, 2019, 45, 328-336.	10.5	56
86	Classification of Medical Images in the Biomedical Literature by Jointly Using Deep and Handcrafted Visual Features. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1521-1530.	3.9	84
87	A Unified Collaborative Multikernel Fuzzy Clustering for Multiview Data. IEEE Transactions on Fuzzy Systems, 2018, 26, 1671-1687.	6.5	50
88	Real-Time Long-Term Tracking With Prediction-Detection-Correction. IEEE Transactions on Multimedia, 2018, 20, 2289-2302.	5.2	36
89	Multi-Pass Fast Watershed for Accurate Segmentation of Overlapping Cervical Cells. IEEE Transactions on Medical Imaging, 2018, 37, 2044-2059.	5.4	64
90	Dense and Sparse Labeling With Multidimensional Features for Saliency Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1130-1143.	5.6	20

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91	End-User Development for Interactive Data Analytics: Uncertainty, Correlation and User Confidence. IEEE Transactions on Affective Computing, 2018, 9, 383-395.	5.7	9
92	Reversion Correction and Regularized Random Walk Ranking for Saliency Detection. IEEE Transactions on Image Processing, 2018, 27, 1311-1322.	6.0	114
93	Hyperspectral Image Classification With Global Local Discriminant Analysis and Spatial Spectral Context. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 5005-5018.	2.3	29
94	Automated Prostate Image Recognition and Segmentation. , 2018, , 243-258.		0
95	Optimizing the cervix cytological examination based on deep learning and dynamic shape modeling. Neurocomputing, 2017, 248, 28-40.	3.5	46
96	Automatic detection and classification of regions of FDG uptake in whole-body PET-CT lymphoma studies. Computerized Medical Imaging and Graphics, 2017, 60, 3-10.	3.5	55
97	An Ensemble of Fine-Tuned Convolutional Neural Networks for Medical Image Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 31-40.	3.9	360
98	Learning universal multiview dictionary for human action recognition. Pattern Recognition, 2017, 64, 236-244.	5.1	40
99	Automatic segmentation of overlapping cervical smear cells based on local distinctive features and guided shape deformation. Neurocomputing, 2017, 221, 94-107.	3.5	51
100	Exploring the influence of feature representation for dictionary selection based video summarization. , 2017, , .		5
101	Video Summarization via Simultaneous Block Sparse Representation. , 2017, , .		3
102	Synthesis of Positron Emission Tomography (PET) Images via Multi-channel Generative Adversarial Networks (GANs). Lecture Notes in Computer Science, 2017, , 43-51.	1.0	57
103	A Multiview Joint Sparse Representation with Discriminative Dictionary for Melanoma Detection. , 2016, , .		8
104	Large Margin Local Estimate With Applications to Medical Image Classification. IEEE Transactions on Medical Imaging, 2015, 34, 1362-1377.	5.4	66
105	Video summarization via minimum sparse reconstruction. Pattern Recognition, 2015, 48, 522-533.	5.1	153
106	A Top-Down Approach for Video Summarization. ACM Transactions on Multimedia Computing, Communications and Applications, 2014, 11, 1-21.	3.0	37
107	Automated three-stage nucleus and cytoplasm segmentation of overlapping cells. , 2014, , .		13
108	Spectral embedding based facial expression recognition with multiple features. Neurocomputing, 2014, 129, 136-145.	3.5	26

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109	A graph-based approach for the retrieval of multi-modality medical images. Medical Image Analysis, 2014, 18, 330-342.	7.0	35
110	A Bag-of-Importance Model With Locality-Constrained Coding Based Feature Learning <newline/>for Video Summarization. IEEE Transactions on Multimedia, 2014, 16, 1497-1509.	5.2	73
111	Keypoint-Based Keyframe Selection. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 729-734.	5.6	117
112	Video Summarization with Global and Local Features. , 2012, , .		25
113	Segmentation of dynamic PET images using cluster analysis. IEEE Transactions on Nuclear Science, 2002, 49, 200-207.	1.2	132
114	Robust and efficient content-based digital audio watermarking. Multimedia Systems, 2002, 8, 353-368.	3.0	4
115	CONTENT-BASED RETRIEVAL OF MULTIMEDIA INFORMATION. International Journal of Image and Graphics, 2001, 01, 83-91.	1.2	3
116	Content-based retrieval of dynamic PET functional images. IEEE Transactions on Information Technology in Biomedicine, 2000, 4, 152-158.	3.6	96
117	Optimal image sampling schedule for both image-derived input and output functions in PET cardiac studies. IEEE Transactions on Medical Imaging, 2000, 19, 233-242.	5.4	13
118	Optimized acquisition time and image sampling for dynamic SPECT of Tl-201. IEEE Transactions on Medical Imaging, 1998, 17, 334-343.	5.4	21
119	Dynamic imaging and tracer kinetic modeling for emission tomography using rotating detectors. IEEE Transactions on Medical Imaging, 1998, 17, 986-994.	5.4	6
120	Generalized linear least squares method for fast generation of myocardial blood flow parametric images with N-13 ammonia PET. IEEE Transactions on Medical Imaging, 1998, 17, 236-243.	5.4	48
121	Dynamic image data compression in spatial and temporal domains: theory and algorithm. IEEE Transactions on Information Technology in Biomedicine, 1997, 1, 219-228.	3.6	28
122	A technique for extracting physiological parameters and the required input function simultaneously from PET image measurements: theory and simulation study. IEEE Transactions on Information Technology in Biomedicine, 1997, 1, 243-254.	3.6	153
123	Optimal image sampling schedule: a new effective way to reduce dynamic image storage space and functional image processing time. IEEE Transactions on Medical Imaging, 1996, 15, 710-719.	5.4	54
124	A new double modeling approach for dynamic cardiac PET studies using noise and spillover contaminated LV measurements. IEEE Transactions on Biomedical Engineering, 1996, 43, 319-327.	2.5	30
125	A method for biomedical system modelling and physiological parameter estimation using indirectly measured input functions. International Journal of Systems Science, 1995, 26, 723-739.	3.7	2
126	An evaluation of the algorithms for determining local cerebral metabolic rates of glucose using positron emission tomography dynamic data. IEEE Transactions on Medical Imaging, 1995, 14, 697-710.	5.4	77

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127	An explicit model for noninvasive measurement of blood samples. , 1992, , .		0
128	Continuous-time system modelling using the weighted-parabola-overlapping numerical integration method. International Journal of Systems Science, 1992, 23, 1361-1369.	3.7	7
129	A filtering integration method for physiological function images. , 1992, , .		0
130	A study on physiological parameter estimation accuracy for tracer kinetic modeling with positron emission tomography (pet). , 1992, , .		2
131	A Three-stage Parameter Estimation Algorithm for Tracer Concentration Kinetic Modelling with Positron Emission Tomography. , 1991, , .		1
132	Fast system identification algorithm for non-uniformly sampled noisy biomedical signal. , 0, , .		3
133	Parameter estimation using reduced dynamic imaging data in PET studies. , 0, , .		0
134	Simultaneous analysis of noisy signals obtained from multiple experiments, with application to deriving brain functional images. , 0, , .		0
135	Extracting maximum information from the signal obtained from the dynamic images with positron emission tomography. , 0, , .		0
136	Tomographic dynamic imaging and system identification with partially sampled noisy radio-active signal. , 0, , .		0
137	A parallel thinning method based on image marking. , 0, , .		1
138	Measuring image similarity using the geometrical distribution of image contents. , 0, , .		2
139	Information technology in biomedical functional imaging. , 0, , .		0
140	Clinical investigation of a knowledge-based data compression algorithm for dynamic neurologic FDG-PET images. , 0, , .		1
141	A method to estimate the input function non-invasively for neurologic FDG-PET studies. , 0, , .		0
142	A fast algorithm for estimating FDG model parameters in dynamic PET with an optimised image sampling schedule and corrections for cerebral blood volume and partial volume. , 0, , .		3
143	ADM: a dynamic model for general multimedia storage and content-based retrieval. , 0, , .		2
144	Segmentation of dynamic PET images using cluster analysis. , 0, , .		1

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145	A knowledge-based image smoothing technique for dynamic PET studies. , 0, , .		0
146	Objective assessment of 3-D medical image registration results using statistical confidence intervals. , 0, , .		0
147	Medical image data retrieval and manipulation through the WWW. , 0, , .		2
148	A novel QoS feedback control for supporting compressed video. , 0, , .		0
149	A QoS control protocol for rate-adaptive video traffic. , 0, , .		0
150	Input recovery from noisy output measurements: a Monte Carlo method. , 0, , .		0