K C Santosh

List of Publications by Year
in descending order

163 papers	3,492 citations	147801 31 h-index	182427 51 g-index
180 all docs	180 docs citations	180 times ranked	2467 citing authors

#	Article	IF	Citations
1	AI-Driven Tools for Coronavirus Outbreak: Need of Active Learning and Cross-Population Train/Test Models on Multitudinal/Multimodal Data. Journal of Medical Systems, 2020, 44, 93.	3.6	282
2	Truncated inception net: COVID-19 outbreak screening using chest X-rays. Physical and Engineering Sciences in Medicine, 2020, 43, 915-925.	2.4	202
3	Deep neural network to detect COVID-19: one architecture for both CT Scans and Chest X-rays. Applied Intelligence, 2021, 51, 2777-2789.	5.3	146
4	Automated Chest X-Ray Screening: Can Lung Region Symmetry Help Detect Pulmonary Abnormalities?. IEEE Transactions on Medical Imaging, 2018, 37, 1168-1177.	8.9	124
5	Feature Selection for Automatic Tuberculosis Screening in Frontal Chest Radiographs. Journal of Medical Systems, 2018, 42, 146.	3.6	116
6	COVID-19 Prediction Models and Unexploited Data. Journal of Medical Systems, 2020, 44, 170.	3.6	115
7	Combination of texture and shape features to detect pulmonary abnormalities in digital chest X-rays. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 99-106.	2.8	98
8	Agreeing to disagree: active learning with noisy labels without crowdsourcing. International Journal of Machine Learning and Cybernetics, 2018, 9, 1307-1319.	3.6	77
9	Overlaid Arrow Detection for Labeling Regions of Interest in Biomedical Images. IEEE Intelligent Systems, 2016, 31, 66-75.	4.0	69
10	Edge map analysis in chest X-rays for automatic pulmonary abnormality screening. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1637-1646.	2.8	68
11	PHDIndic_11: page-level handwritten document image dataset of 11 official Indic scripts for script identification. Multimedia Tools and Applications, 2018, 77, 1643-1678.	3.9	68
12	A Systematic Review on Orthopedic Simulators for Psycho-Motor Skill and Surgical Procedure Training. Journal of Medical Systems, 2018, 42, 168.	3.6	68
13	Shallow Convolutional Neural Network for COVID-19 Outbreak Screening Using Chest X-rays. Cognitive Computation, 2021, , 1-14.	5.2	68
14	Colorectal Histology Tumor Detection Using Ensemble Deep Neural Network. Engineering Applications of Artificial Intelligence, 2021, 100, 104202.	8.1	55
15	Covid-19 Imaging Tools: How Big Data is Big?. Journal of Medical Systems, 2021, 45, 71.	3.6	55
16	Deep features to detect pulmonary abnormalities in chest X-rays due to infectious diseaseX: Covid-19, pneumonia, and tuberculosis. Information Sciences, 2022, 592, 389-401.	6.9	55
17	Automated Fractured Bone Segmentation and Labeling from CT Images. Journal of Medical Systems, 2019, 43, 60.	3.6	52
18	Revisited COVID-19 Mortality and Recovery Rates: Are we Missing Recovery Time Period?. Journal of Medical Systems, 2020, 44, 202.	3.6	49

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19	Improved U-Net architecture with VGG-16 for brain tumor segmentation. Physical and Engineering Sciences in Medicine, 2021, 44, 703-712.	2.4	47
20	Line spectral frequency-based features and extreme learning machine for voice activity detection from audio signal. International Journal of Speech Technology, 2018, 21, 753-760.	2.2	46
21	Symbol recognition using spatial relations. Pattern Recognition Letters, 2012, 33, 331-341.	4.2	44
22	Kinect sensor-based interaction monitoring system using the BLSTM neural network in healthcare. International Journal of Machine Learning and Cybernetics, 2019, 10, 2529-2540.	3.6	44
23	DevNet: An Efficient CNN Architecture for Handwritten Devanagari Character Recognition. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2052009.	1.2	44
24	DTWâ€"RADON-BASED SHAPE DESCRIPTOR FOR PATTERN RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1350008.	1.2	41
25	Automatic Lung Health Screening Using Respiratory Sounds. Journal of Medical Systems, 2021, 45, 19.	3.6	41
26	Predicting the Phase Stability of Multicomponent High-Entropy Compounds. Chemistry of Materials, 2020, 32, 7507-7515.	6.7	37
27	Directional Discrete Cosine Transform for Handwritten Script Identification. , 2013, , .		36
28	Integrating vocabulary clustering with spatial relations for symbol recognition. International Journal on Document Analysis and Recognition, 2014, 17, 61-78.	3.4	35
29	RSILC: Rotation- and Scale-Invariant, Line-based Color-aware descriptor. Image and Vision Computing, 2015, 42, 1-12.	4.5	35
30	A lazy learning-based language identification from speech using MFCC-2 features. International Journal of Machine Learning and Cybernetics, 2020, 11, 1-14.	3.6	35
31	Character recognition based on non-linear multi-projection profiles measure. Frontiers of Computer Science, 2015, 9, 678-690.	2.4	34
32	SegFast-V2: Semantic image segmentation with less parameters in deep learning for autonomous driving. International Journal of Machine Learning and Cybernetics, 2019, 10, 3145-3154.	3.6	34
33	Socioeconomic impact due to COVID-19: An empirical assessment. Information Processing and Management, 2022, 59, 102810.	8.6	34
34	Automatic Handwritten Indian Scripts Identification. , 2014, , .		31
35	Automatic Indic script identification from handwritten documents: page, block, line and word-level approach. International Journal of Machine Learning and Cybernetics, 2019, 10, 87-106.	3.6	27
36	Handwritten Indic Script Identification in Multi-Script Document Images: A Survey. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1856012.	1.2	26

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37	Arrow detection in biomedical images using sequential classifier. International Journal of Machine Learning and Cybernetics, 2018, 9, 993-1006.	3.6	26
38	Geometric Regularized Hopfield Neural Network for Medical Image Enhancement. International Journal of Biomedical Imaging, 2021, 2021, 1-12.	3.9	26
39	Machine translation using deep learning for universal networking language based on their structure. International Journal of Machine Learning and Cybernetics, 2021, 12, 2365-2376.	3.6	24
40	RELATIVE POSITIONING OF STROKE-BASED CLUSTERING: A NEW APPROACH TO ONLINE HANDWRITTEN DEVANAGARI CHARACTER RECOGNITION. International Journal of Image and Graphics, 2012, 12, 1250016.	1.5	23
41	Deep learning for spoken language identification: Can we visualize speech signal patterns?. Neural Computing and Applications, 2019, 31, 8483-8501.	5.6	22
42	Knowledge about adverse drug reactions reporting among healthcare professionals in Nepal. International Journal of Risk and Safety in Medicine, 2013, 25, 1-16.	0.6	21
43	Automatically Detecting Rotation in Chest Radiographs Using Principal Rib-Orientation Measure for Quality Control. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1557001.	1.2	21
44	g-DICE: graph mining-based document information content exploitation. International Journal on Document Analysis and Recognition, 2015, 18, 337-355.	3.4	21
45	Improved word-level handwritten Indic script identification by integrating small convolutional neural networks. Neural Computing and Applications, 2020, 32, 2829-2844.	5.6	21
46	Inductive Logic Programming for Symbol Recognition. , 2009, , .		19
47	BoR: BAG-OF-RELATIONS FOR SYMBOL RETRIEVAL. International Journal of Pattern Recognition and Artificial Intelligence, 2014, 28, 1450017.	1.2	19
48	Understanding cartoon emotion using integrated deep neural network on large dataset. Neural Computing and Applications, 2022, 34, 21481-21501.	5.6	19
49	Explainable AI for Glaucoma Prediction Analysis to Understand Risk Factors in Treatment Planning. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	19
50	A systematic review on cough sound analysis for Covid-19 diagnosis and screening: is my cough sound COVID-19?. PeerJ Computer Science, 0, 8, e958.	4.5	19
51	First principles study on InP (001)-(2 Ã— 4) surface oxidation. Journal of Applied Physics, 2013, 113, 103705.	2.5	18
52	Content Independent Writer Identification on Bangla Script: A Document Level Approach. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1856011.	1.2	16
53	Deep Learning for Covid-19 Screening Using Chest X-Rays in 2020: A Systematic Review. International Journal of Pattern Recognition and Artificial Intelligence, 2022, 36, .	1.2	16
54	Feature Learning for Offline Handwritten Signature Verification Using Convolutional Neural Network. International Journal of Technology and Human Interaction, 2019, 15, 54-62.	0.4	15

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55	Cross-Population Train/Test Deep Learning Model: Abnormality Screening in Chest X-Rays. , 2020, , .		15
56	Document Image Analysis. , 2018, , .		14
57	On the elastic anisotropy of the entropy-stabilized oxide (Mg, Co, Ni, Cu, Zn)O compound. Journal of Applied Physics, 2020, 128, .	2.5	14
58	Understanding movie poster: transfer-deep learning approach for graphic-rich text recognition. Visual Computer, 2022, 38, 1645-1664.	3.5	14
59	Extreme learning machine for handwritten Indic script identification in multiscript documents. Journal of Electronic Imaging, 2018, 27, 1.	0.9	14
60	A Simple and Efficient Arrowhead Detection Technique in Biomedical Images. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1657002.	1.2	13
61	Foreign Circular Element Detection in Chest X-Rays for Effective Automated Pulmonary Abnormality Screening. International Journal of Computer Vision and Image Processing, 2017, 7, 36-49.	0.4	13
62	Identifying the Presence of Graphical Texts in Scene Images using CNN. , 2019, , .		13
63	LWSINet: A deep learning-based approach towards video script identification. Multimedia Tools and Applications, 2021, 80, 29095-29128.	3.9	13
64	Contrast Stretching-Based Unwanted Artifacts Removal from CT Images. Communications in Computer and Information Science, 2019, , 3-14.	0.5	12
65	Imperceptible watermark for a game-theoretic watermarking system. International Journal of Machine Learning and Cybernetics, 2019, 10, 1323-1339.	3.6	12
66	OCTx: Ensembled Deep Learning Model to Detect Retinal Disorders. , 2020, , .		12
67	Deep Neural Network for Foreign Object Detection in Chest X-Rays. , 2020, , .		12
68	Separating Indic Scripts with <i>matra</i> for Effective Handwritten Script Identification in Multi-Script Documents. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1753003.	1.2	11
69	Angular relational signature-based chest radiograph image view classification. Medical and Biological Engineering and Computing, 2018, 56, 1447-1458.	2.8	11
70	Cardiotocograph-based labor stage classification from uterine contraction pressure during ante-partum and intra-partum period: a fuzzy theoretic approach. Health Information Science and Systems, 2020, 8, 16.	5.2	11
71	Segmentation and Analysis of CT Images for Bone Fracture Detection and Labeling. , 2019, , 130-154.		11
72	Line Segment-Based Stitched Multipanel Figure Separation for Effective Biomedical CBIR. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1757003.	1.2	10

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73	Speech Processing in Healthcare: Can We Integrate?. , 2019, , 1-4.		10
74	Word-Level Multi-Script Indic Document Image Dataset and Baseline Results on Script Identification. International Journal of Computer Vision and Image Processing, 2017, 7, 81-94.	0.4	9
75	Preface: Special Section: Advances in Speech, Music and Audio Signal processing (Articles 1â€"13). International Journal of Speech Technology, 2019, 22, 293-294.	2.2	9
76	Linear Predictive Coefficients-Based Feature to Identify Top-Seven Spoken Languages. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2058006.	1.2	9
77	Gradient boosting in crowd ensembles for Q-learning using weight sharing. International Journal of Machine Learning and Cybernetics, 2020, 11, 2275-2287.	3.6	9
78	Introduction to AI in Public Health. SpringerBriefs in Applied Sciences and Technology, 2021, , 1-10.	0.4	9
79	Automatic Pulmonary Abnormality Screening Using Thoracic Edge Map. , 2015, , .		8
80	Personalized recommendation: an enhanced hybrid collaborative filtering. Advances in Computational Intelligence, 2021, 1, 1.	1.1	8
81	Tumor Segmentation in Brain MRI: U-Nets versus Feature Pyramid Network. , 2021, , .		8
82	Deep learning models. , 2022, , 65-97.		8
83	Artistic Multi-character Script Identification Using Iterative Isotropic Dilation Algorithm. Communications in Computer and Information Science, 2019, , 49-62.	0.5	8
84	A Systematic Review of 3D Imaging in Biomedical Applications. , 2019, , 154-181.		8
85	AI Solutions to Public Health Issues. SpringerBriefs in Applied Sciences and Technology, 2021, , 23-32.	0.4	8
86	Explainable AI to Analyze Outcomes of Spike Neural Network in Covid-19 Chest X-rays. , 2021, , .		8
87	Stroke-Based Cursive Character Recognition. , 0, , .		7
88	Scalable Arrow Detection in Biomedical Images. , 2014, , .		7
89	Stitched Multipanel Biomedical Figure Separation. , 2015, , .		7
90	Weber local descriptor for image analysis and recognition: a survey. Visual Computer, 2022, 38, 321-343.	3.5	7

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91	Recent trends in image processing and pattern recognition. Multimedia Tools and Applications, 2020, 79, 34697-34699.	3.9	7
92	Improved Skin Disease Classification Using Generative Adversarial Network. , 2020, , .		7
93	Inception-based Deep Learning Architecture for Tuberculosis Screening using Chest X-rays. , 2021, , .		7
94	5K+ CT Images on Fractured Limbs: A Dataset for Medical Imaging Research. Journal of Medical Systems, 2021, 45, 51.	3.6	7
95	Spatio-structural Symbol Description with Statistical Feature Add-On. Lecture Notes in Computer Science, 2013, , 228-237.	1.3	7
96	Gray Level Face Recognition Using Spatial Features. Communications in Computer and Information Science, 2019, , 216-229.	0.5	7
97	Interval timing and midfrontal delta oscillations are impaired in Parkinson's disease patients with freezing of gait. Journal of Neurology, 2022, 269, 2599-2609.	3.6	7
98	Artificial Intelligence and Machine Learning in Public Healthcare. SpringerBriefs in Applied Sciences and Technology, 2021, , .	0.4	7
99	Structural Approach on Writer Independent Nepalese Natural Handwriting Recognition. , 2006, , .		6
100	Document Information Extraction and Its Evaluation Based on Client's Relevance. , 2013, , .		6
101	Bayesian networks for incomplete data analysis in form processing. International Journal of Machine Learning and Cybernetics, 2015, 6, 347-363.	3.6	6
102	Complex and Composite Graphical Symbol Recognition and Retrieval: A Quick Review. Communications in Computer and Information Science, 2017, , 3-15.	0.5	6
103	Artistic multi-script identification at character level with extreme learning machine. Procedia Computer Science, 2020, 167, 496-505.	2.0	6
104	Skin Cancer Classification Through Quantized Color Features and Generative Adversarial Network. International Journal of Ambient Computing and Intelligence, 2021, 12, 75-97.	1.1	6
105	Lung Health Analysis: Adventitious Respiratory Sound Classification Using Filterbank Energies. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, .	1.2	6
106	CheXNet for the Evidence of Covid-19 Using 2.3K Positive Chest X-rays. Communications in Computer and Information Science, 2022, , 33-41.	0.5	6
107	Learning Deep Feature Representation for Face Spoofing. Communications in Computer and Information Science, 2019, , 178-185.	0.5	5
108	usfAD: a robust anomaly detector based on unsupervised stochastic forest. International Journal of Machine Learning and Cybernetics, 2021, 12, 1137-1150.	3.6	5

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109	Niblack Binarization on Document Images: Area Efficient, Low Cost, and Noise Tolerant Stochastic Architecture. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2154013.	1.2	5
110	Identification of top-3 spoken Indian languages: An Ensemble learning-based approach. , 2018, , .		4
111	An Empirical Study: ELM in Face Matching. Communications in Computer and Information Science, 2019, , 277-287.	0.5	4
112	Periodic Change Detection in Fetal Heart Rate Using Cardiotocograph. , 2020, , .		4
113	Cytology image analysis. , 2022, , 99-123.		4
114	Unified Pairwise Spatial Relations: An Application to Graphical Symbol Retrieval. Lecture Notes in Computer Science, 2010, , 163-174.	1.3	4
115	Separating Indic Scripts with â€˜matraâ€™â€"A Precursor to Script Identification in Multi-script Documents. Advances in Intelligent Systems and Computing, 2017, , 205-214.	0.6	4
116	A Recurrent Neural Network-Based Approach to Automatic Language Identification from Speech. Lecture Notes in Electrical Engineering, 2020, , 441-450.	0.4	4
117	How Intense Are Your Words? Understanding Emotion Intensity from Speech. , 2021, , .		4
118	Handwritten and machine printed text separation from Kannada document images. , 2016, , .		3
119	Investigation of DNA discontinuity for detecting tuberculosis. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 1149-1163.	4.9	3
120	A Survey on Extreme Learning Machine and Evolution of Its Variants. Communications in Computer and Information Science, 2019, , 572-583.	0.5	3
121	Music chord inversion shape identification with LSTM-RNN. Procedia Computer Science, 2020, 167, 607-615.	2.0	3
122	Deep Neural Network for Pneumonia Detection Using Chest X-Rays. Communications in Computer and Information Science, 2021, , 78-87.	0.5	3
123	Ret-GAN: Retinal Image Enhancement using Generative Adversarial Networks. , 2021, , .		3
124	Automatic Compound Figure Separation inÂScientific Articles: A Study of Edge Map and Its Role for Stitched Panel Boundary Detection. Communications in Computer and Information Science, 2017, , 319-332.	0.5	3
125	Circle-like foreign element detection in chest x-rays using normalized cross-correlation and unsupervised clustering. , 2018, , .		3
126	Automatic Text Localization in Scene Images: A Transfer Learning Based Approach. Communications in Computer and Information Science, 2020, , 470-479.	0.5	3

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127	Editorial: Current Trends in Image Processing and Pattern Recognition. Frontiers in Robotics and AI, 2021, 8, 785075.	3.2	3
128	Rotation Detection in Chest Radiographs Based on Generalized Line Histogram of Rib-Orientations. , 2014, , .		2
129	Recurrent Neural Network Based Classification of Fetal Heart Rate Using Cardiotocograph. Communications in Computer and Information Science, 2019, , 226-234.	0.5	2
130	Deep Learning for Word-Level Handwritten Indic Script Identification. Communications in Computer and Information Science, 2021, , 499-510.	0.5	2
131	Development of a machine-learning-based decision support mechanism for predicting chemical tanker cleaning activity. Journal of Modelling in Management, 2021, 16, 1138-1165.	1.9	2
132	Deep learning for graphics recognition: document understanding and beyond. International Journal on Document Analysis and Recognition, 2021, 24, 1-2.	3.4	2
133	Improved Gastrointestinal Screening: Deep Features using Stacked Generalization. , 2021, , .		2
134	COVID-19: prediction, screening, and decision-making. , 2022, , 125-145.		2
135	Deep learning: a review. , 2022, , 29-63.		2
136	Segregating Musical Chords for Automatic Music Transcription: A LSTM-RNN Approach. Lecture Notes in Computer Science, 2019, , 427-435.	1.3	2
137	Artificial Intelligence for Document Image Analysis. , 2019, , 1-14.		2
138	COVID-19: A Necessity for Changes and Innovations. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 99-105.	0.7	2
139	Generic Foreign Object Detection inÂChest X-rays. Communications in Computer and Information Science, 2022, , 93-104.	0.5	2
140	Arrowhead detection in biomedical images. IS&T International Symposium on Electronic Imaging, 2016, 2016, 1-7.	0.4	1
141	Lazy Learning Based Segregation of Top-3 South Indian Languages with LSF-A Feature. Communications in Computer and Information Science, 2019, , 449-459.	0.5	1
142	Segregating Bass Grooves from Audio: A Rotation Forest-Based Approach. Communications in Computer and Information Science, 2021, , 363-372.	0.5	1
143	Balance Your Work-Life: Personal Interactive Web-Interface. International Journal of Interactive Multimedia and Artificial Intelligence, 2021, In Press, 1.	1.3	1
144	Graphics Recognition. , 2018, , 17-34.		1

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145	Artistic Multi-Character Script Identification. , 2019, , 28-42.		1
146	A Study on the Extreme Learning Machine and Its Applications. , 2019, , 43-52.		1
147	Deep Learning-Based Music Chord Family Identification. Advances in Intelligent Systems and Computing, 2020, , 175-184.	0.6	1
148	Document Image Analysis. , 2018, , 1-15.		0
149	Syntactic Approaches. , 2018, , 145-161.		0
150	Script Identification of Movie Titles from Posters. Communications in Computer and Information Science, 2021, , 111-124.	0.5	0
151	A Deep Learning Based Visible Knife Detection System to Aid in Women Security. Communications in Computer and Information Science, 2021, , 60-69.	0.5	0
152	Optimization of Face Retrieval and Real Time Face Recognition Systems Using Heuristic Indexing. Communications in Computer and Information Science, 2021, , 69-81.	0.5	0
153	A Fast and Efficient Convolutional Neural Network for Fruit Recognition and Classification. Communications in Computer and Information Science, 2021, , 148-157.	0.5	0
154	Identifying language from songs. Multimedia Tools and Applications, 0, , 1.	3.9	0
155	SPAD+: An Improved Probabilistic Anomaly Detector based on One-dimensional Histograms. , 2021, , .		0
156	Text Categorization: A Lazy Learning-Based Approach. Communications in Computer and Information Science, 2021, , 350-359.	0.5	0
157	Conclusion and Challenges. , 2018, , 163-169.		0
158	Structural Approaches. , 2018, , 81-119.		0
159	Hybrid Approaches. , 2018, , 121-143.		0
160	Graphics Recognition and Validation Protocol. , 2018, , 35-51.		0
161	Statistical Approaches. , 2018, , 53-80.		0
162	Temporal Super-Pixel Based Convolutional Neural Network (TS-CNN) for Human Activity Recognition in Unconstrained Videos. Communications in Computer and Information Science, 2019, , 255-264.	0.5	0

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163	Text Extraction Using Sparse Representation over Learning Dictionaries. Communications in Computer and Information Science, 2019, , 3-13.	0.5	0