

K C Santosh

List of Publications by Year in descending order

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Version: 2024-02-01

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	Investigation of DNA discontinuity for detecting tuberculosis. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 1149-1163.	4.9	3
2	Weber local descriptor for image analysis and recognition: a survey. Visual Computer, 2022, 38, 321-343.	3.5	7
3	Understanding movie poster: transfer-deep learning approach for graphic-rich text recognition. Visual Computer, 2022, 38, 1645-1664.	3.5	14
4	Understanding cartoon emotion using integrated deep neural network on large dataset. Neural Computing and Applications, 2022, 34, 21481-21501.	5.6	19
5	Cytology image analysis. , 2022, , 99-123.		4
6	COVID-19: prediction, screening, and decision-making. , 2022, , 125-145.		2
7	Deep learning: a review. , 2022, , 29-63.		2
8	Deep learning models. , 2022, , 65-97.		8
9	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
10	Socioeconomic impact due to COVID-19: An empirical assessment. Information Processing and Management, 2022, 59, 102810.	8.6	34
11	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
12	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
13	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
14	Generic Foreign Object Detection in Chest X-rays. Communications in Computer and Information Science, 2022, , 93-104.	0.5	2
15	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
16	usfAD: a robust anomaly detector based on unsupervised stochastic forest. International Journal of Machine Learning and Cybernetics, 2021, 12, 1137-1150.	3.6	5
17	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
18	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

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19	Script Identification of Movie Titles from Posters. Communications in Computer and Information Science, 2021, , 111-124.	0.5	0
20	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
21	Automatic Lung Health Screening Using Respiratory Sounds. Journal of Medical Systems, 2021, 45, 19.	3.6	41
22	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
23	Deep Learning for Word-Level Handwritten Indic Script Identification. Communications in Computer and Information Science, 2021, , 499-510.	0.5	2
24	Deep Neural Network for Pneumonia Detection Using Chest X-Rays. Communications in Computer and Information Science, 2021, , 78-87.	0.5	3
25	A Fast and Efficient Convolutional Neural Network for Fruit Recognition and Classification. Communications in Computer and Information Science, 2021, , 148-157.	0.5	0
26	Segregating Bass Grooves from Audio: A Rotation Forest-Based Approach. Communications in Computer and Information Science, 2021, , 363-372.	0.5	1
27	Inception-based Deep Learning Architecture for Tuberculosis Screening using Chest X-rays. , 2021, , .		7
28	Geometric Regularized Hopfield Neural Network for Medical Image Enhancement. International Journal of Biomedical Imaging, 2021, 2021, 1-12.	3.9	26
29	Shallow Convolutional Neural Network for COVID-19 Outbreak Screening Using Chest X-rays. Cognitive Computation, 2021, , 1-14.	5.2	68
30	5K+ CT Images on Fractured Limbs: A Dataset for Medical Imaging Research. Journal of Medical Systems, 2021, 45, 51.	3.6	7
31	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
32	Colorectal Histology Tumor Detection Using Ensemble Deep Neural Network. Engineering Applications of Artificial Intelligence, 2021, 100, 104202.	8.1	55
33	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
34	Deep learning for graphics recognition: document understanding and beyond. International Journal on Document Analysis and Recognition, 2021, 24, 1-2.	3.4	2
35	Personalized recommendation: an enhanced hybrid collaborative filtering. Advances in Computational Intelligence, 2021, 1, 1.	1.1	8
36	Improved U-Net architecture with VGG-16 for brain tumor segmentation. Physical and Engineering Sciences in Medicine, 2021, 44, 703-712.	2.4	47

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37	Ret-GAN: Retinal Image Enhancement using Generative Adversarial Networks. , 2021, , .		3
38	Improved Gastrointestinal Screening: Deep Features using Stacked Generalization. , 2021, , .		2
39	Tumor Segmentation in Brain MRI: U-Nets versus Feature Pyramid Network. , 2021, , .		8
40	Covid-19 Imaging Tools: How Big Data is Big?. Journal of Medical Systems, 2021, 45, 71.	3.6	55
41	LWSINet: A deep learning-based approach towards video script identification. Multimedia Tools and Applications, 2021, 80, 29095-29128.	3.9	13
42	SPAD+: An Improved Probabilistic Anomaly Detector based on One-dimensional Histograms. , 2021, , .		0
43	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
44	Text Categorization: A Lazy Learning-Based Approach. Communications in Computer and Information Science, 2021, , 350-359.	0.5	0
45	Balance Your Work-Life: Personal Interactive Web-Interface. International Journal of Interactive Multimedia and Artificial Intelligence, 2021, In Press, 1.	1.3	1
46	COVID-19: A Necessity for Changes and Innovations. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 99-105.	0.7	2
47	Lung Health Analysis: Adventitious Respiratory Sound Classification Using Filterbank Energies. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, .	1.2	6
48	Introduction to AI in Public Health. SpringerBriefs in Applied Sciences and Technology, 2021, , 1-10.	0.4	9
49	AI Solutions to Public Health Issues. SpringerBriefs in Applied Sciences and Technology, 2021, , 23-32.	0.4	8
50	Artificial Intelligence and Machine Learning in Public Healthcare. SpringerBriefs in Applied Sciences and Technology, 2021, , .	0.4	7
51	Explainable AI to Analyze Outcomes of Spike Neural Network in Covid-19 Chest X-rays. , 2021, , .		8
52	How Intense Are Your Words? Understanding Emotion Intensity from Speech. , 2021, , .		4
53	Editorial: Current Trends in Image Processing and Pattern Recognition. Frontiers in Robotics and AI, 2021, 8, 785075.	3.2	3
54	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

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55	Improved word-level handwritten Indic script identification by integrating small convolutional neural networks. Neural Computing and Applications, 2020, 32, 2829-2844.	5.6	21
56	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
57	DevNet: An Efficient CNN Architecture for Handwritten Devanagari Character Recognition. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2052009.	1.2	44
58	Predicting the Phase Stability of Multicomponent High-Entropy Compounds. Chemistry of Materials, 2020, 32, 7507-7515.	6.7	37
59	COVID-19 Prediction Models and Unexploited Data. Journal of Medical Systems, 2020, 44, 170.	3.6	115
60	Recent trends in image processing and pattern recognition. Multimedia Tools and Applications, 2020, 79, 34697-34699.	3.9	7
61	Revisited COVID-19 Mortality and Recovery Rates: Are we Missing Recovery Time Period?. Journal of Medical Systems, 2020, 44, 202.	3.6	49
62	OCTx: Ensembled Deep Learning Model to Detect Retinal Disorders. , 2020, , .		12
63	Deep Neural Network for Foreign Object Detection in Chest X-Rays. , 2020, , .		12
64	Cross-Population Train/Test Deep Learning Model: Abnormality Screening in Chest X-Rays. , 2020, , .		15
65	Improved Skin Disease Classification Using Generative Adversarial Network. , 2020, , .		7
66	Periodic Change Detection in Fetal Heart Rate Using Cardiotocograph. , 2020, , .		4
67	Artistic multi-script identification at character level with extreme learning machine. Procedia Computer Science, 2020, 167, 496-505.	2.0	6
68	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
69	Truncated inception net: COVID-19 outbreak screening using chest X-rays. Physical and Engineering Sciences in Medicine, 2020, 43, 915-925.	2.4	202
70	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
71	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
72	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

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73	Music chord inversion shape identification with LSTM-RNN. Procedia Computer Science, 2020, 167, 607-615.	2.0	3
74	A Recurrent Neural Network-Based Approach to Automatic Language Identification from Speech. Lecture Notes in Electrical Engineering, 2020, , 441-450.	0.4	4
75	Deep Learning-Based Music Chord Family Identification. Advances in Intelligent Systems and Computing, 2020, , 175-184.	0.6	1
76	Automatic Text Localization in Scene Images: A Transfer Learning Based Approach. Communications in Computer and Information Science, 2020, , 470-479.	0.5	3
77	An Empirical Study: ELM in Face Matching. Communications in Computer and Information Science, 2019, , 277-287.	0.5	4
78	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
79	A Survey on Extreme Learning Machine and Evolution of Its Variants. Communications in Computer and Information Science, 2019, , 572-583.	0.5	3
80	Contrast Stretching-Based Unwanted Artifacts Removal from CT Images. Communications in Computer and Information Science, 2019, , 3-14.	0.5	12
81	Recurrent Neural Network Based Classification of Fetal Heart Rate Using Cardiotocograph. Communications in Computer and Information Science, 2019, , 226-234.	0.5	2
82	Learning Deep Feature Representation for Face Spoofing. Communications in Computer and Information Science, 2019, , 178-185.	0.5	5
83	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
84	Deep learning for spoken language identification: Can we visualize speech signal patterns?. Neural Computing and Applications, 2019, 31, 8483-8501.	5.6	22
85	Preface: Special Section: Advances in Speech, Music and Audio Signal processing (Articles 11-13). International Journal of Speech Technology, 2019, 22, 293-294.	2.2	9
86	Speech Processing in Healthcare: Can We Integrate?. , 2019, , 1-4.		10
87	Identifying the Presence of Graphical Texts in Scene Images using CNN. , 2019, , .		13
88	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
89	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
90	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

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91	Imperceptible watermark for a game-theoretic watermarking system. International Journal of Machine Learning and Cybernetics, 2019, 10, 1323-1339.	3.6	12
92	Gray Level Face Recognition Using Spatial Features. Communications in Computer and Information Science, 2019, , 216-229.	0.5	7
93	Artistic Multi-character Script Identification Using Iterative Isotropic Dilation Algorithm. Communications in Computer and Information Science, 2019, , 49-62.	0.5	8
94	Automated Fractured Bone Segmentation and Labeling from CT Images. Journal of Medical Systems, 2019, 43, 60.	3.6	52
95	Segmentation and Analysis of CT Images for Bone Fracture Detection and Labeling. , 2019, , 130-154.		11
96	A Systematic Review of 3D Imaging in Biomedical Applications. , 2019, , 154-181.		8
97	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
98	Segregating Musical Chords for Automatic Music Transcription: A LSTM-RNN Approach. Lecture Notes in Computer Science, 2019, , 427-435.	1.3	2
99	Text Extraction Using Sparse Representation over Learning Dictionaries. Communications in Computer and Information Science, 2019, , 3-13.	0.5	0
100	Artificial Intelligence for Document Image Analysis. , 2019, , 1-14.		2
101	Artistic Multi-Character Script Identification. , 2019, , 28-42.		1
102	A Study on the Extreme Learning Machine and Its Applications. , 2019, , 43-52.		1
103	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
104	Angular relational signature-based chest radiograph image view classification. Medical and Biological Engineering and Computing, 2018, 56, 1447-1458.	2.8	11
105	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
106	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
107	Arrow detection in biomedical images using sequential classifier. International Journal of Machine Learning and Cybernetics, 2018, 9, 993-1006.	3.6	26
108	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

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109	Agreeing to disagree: active learning with noisy labels without crowdsourcing. International Journal of Machine Learning and Cybernetics, 2018, 9, 1307-1319.	3.6	77
110	Identification of top-3 spoken Indian languages: An Ensemble learning-based approach. , 2018, , .		4
111	Document Image Analysis. , 2018, , 1-15.		0
112	Syntactic Approaches. , 2018, , 145-161.		0
113	Document Image Analysis. , 2018, , .		14
114	Feature Selection for Automatic Tuberculosis Screening in Frontal Chest Radiographs. Journal of Medical Systems, 2018, 42, 146.	3.6	116
115	A Systematic Review on Orthopedic Simulators for Psycho-Motor Skill and Surgical Procedure Training. Journal of Medical Systems, 2018, 42, 168.	3.6	68
116	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
117	Graphics Recognition. , 2018, , 17-34.		1
118	Extreme learning machine for handwritten Indic script identification in multiscript documents. Journal of Electronic Imaging, 2018, 27, 1.	0.9	14
119	Circle-like foreign element detection in chest x-rays using normalized cross-correlation and unsupervised clustering. , 2018, , .		3
120	Conclusion and Challenges. , 2018, , 163-169.		0
121	Structural Approaches. , 2018, , 81-119.		0
122	Hybrid Approaches. , 2018, , 121-143.		0
123	Graphics Recognition and Validation Protocol. , 2018, , 35-51.		0
124	Statistical Approaches. , 2018, , 53-80.		0
125	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
126	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

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127	Complex and Composite Graphical Symbol Recognition and Retrieval: A Quick Review. Communications in Computer and Information Science, 2017, , 3-15.	0.5	6
128	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
129	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
130	Separating Indic Scripts with "matra" A Precursor to Script Identification in Multi-script Documents. Advances in Intelligent Systems and Computing, 2017, , 205-214.	0.6	4
131	Automatic Compound Figure Separation in Scientific 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
132	Arrowhead detection in biomedical images. IS&T International Symposium on Electronic Imaging, 2016, 2016, 1-7.	0.4	1
133	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
134	Handwritten and machine printed text separation from Kannada document images. , 2016, , .		3
135	A Simple and Efficient Arrowhead Detection Technique in Biomedical Images. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1657002.	1.2	13
136	Overlaid Arrow Detection for Labeling Regions of Interest in Biomedical Images. IEEE Intelligent Systems, 2016, 31, 66-75.	4.0	69
137	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
138	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
139	RSILC: Rotation- and Scale-Invariant, Line-based Color-aware descriptor. Image and Vision Computing, 2015, 42, 1-12.	4.5	35
140	Character recognition based on non-linear multi-projection profiles measure. Frontiers of Computer Science, 2015, 9, 678-690.	2.4	34
141	Stitched Multipanel Biomedical Figure Separation. , 2015, , .		7
142	Automatic Pulmonary Abnormality Screening Using Thoracic Edge Map. , 2015, , .		8
143	g-DICE: graph mining-based document information content exploitation. International Journal on Document Analysis and Recognition, 2015, 18, 337-355.	3.4	21
144	Bayesian networks for incomplete data analysis in form processing. International Journal of Machine Learning and Cybernetics, 2015, 6, 347-363.	3.6	6

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145	BoR: BAG-OF-RELATIONS FOR SYMBOL RETRIEVAL. International Journal of Pattern Recognition and Artificial Intelligence, 2014, 28, 1450017.	1.2	19
146	Rotation Detection in Chest Radiographs Based on Generalized Line Histogram of Rib-Orientations. , 2014, , .		2
147	Automatic Handwritten Indian Scripts Identification. , 2014, , .		31
148	Scalable Arrow Detection in Biomedical Images. , 2014, , .		7
149	Integrating vocabulary clustering with spatial relations for symbol recognition. International Journal on Document Analysis and Recognition, 2014, 17, 61-78.	3.4	35
150	Directional Discrete Cosine Transform for Handwritten Script Identification. , 2013, , .		36
151	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
152	First principles study on InP (001)-(2 Å— 4) surface oxidation. Journal of Applied Physics, 2013, 113, 103705.	2.5	18
153	DTWâ€“RADON-BASED SHAPE DESCRIPTOR FOR PATTERN RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1350008.	1.2	41
154	Document Information Extraction and Its Evaluation Based on Client's Relevance. , 2013, , .		6
155	Spatio-structural Symbol Description with Statistical Feature Add-On. Lecture Notes in Computer Science, 2013, , 228-237.	1.3	7
156	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
157	Symbol recognition using spatial relations. Pattern Recognition Letters, 2012, 33, 331-341.	4.2	44
158	Unified Pairwise Spatial Relations: An Application to Graphical Symbol Retrieval. Lecture Notes in Computer Science, 2010, , 163-174.	1.3	4
159	Inductive Logic Programming for Symbol Recognition. , 2009, , .		19
160	Structural Approach on Writer Independent Nepalese Natural Handwriting Recognition. , 2006, , .		6
161	Stroke-Based Cursive Character Recognition. , 0, , .		7
162	Identifying language from songs. Multimedia Tools and Applications, 0, , 1.	3.9	0

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163	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