



FACULTY OF ENGINEERING & TECHNOLOGY (CO-ED)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Journal Publications:

Sl.No.	Name of Author	Title of The Paper	Name of The Journal	Month & Year of Publication	ISSN	Paper Web Link
1.	Dr. Shivakumar Kagi	Optimal Trained Deep Neural Network for Localization in Wireless Sensor Network	International Journal of Computational Methods	2022	Vol. 19, No. 08, 2142006 (2022)	https://doi.org/10.1142/S0219876221420068
2.	Dr Sharanabasappa A Madival	Dietary assessment framework using improved K-mean clustering and optimisation assisted CNN	Computer Methods in Biomechanics and Biomedical Engineering :imaging and Visulization	2023	Pages 651-664	https://doi.org/10.1080/21681163.2022.2099301
3.	Dr Sharanabasappa A	Food Ingredient	International	2023	pp 74-90	https://doi.org/10.1

	Madival	Recognition Model via Image and Textual Feature Extraction and Hybrid Classification Strategy	Journal of Reasoning-based Intelligent Systems			504/IJRIS.2024.137455
4.	Dr Sharanabasappa A Madival	Development and deployment of web application for prediction of cordio vascular desease by using machine learning algorithm	European Chemical Bulletin	2023		
5.	Dr.Sumangala Patil, Dr. A. Nagaraj Rao and Dr.C. Shoba Bindu	An evolutionary approach for software defect prediction on high dimensional data using subspace clustering and machine learning,	Journal of Theoretical and Applied Information	2020	1992-8645 vol no 97 issue no 21,2020.	http://www.jatit.org/volumes/Vol97No21/9Vol97No21.pdf
6.	Dr.Sumangala Patil, Dr. A. Nagaraj Rao and Dr.C.Shoba Bindu,	Semi-Supervised Machine Learning and Adaptive Data Clustering Approach for Software Defect Prediction	International Journal of Simulation Systems, Science and Technology	2019	1473-8031 20(1), (2019) 19.1-19.9.	https://ijssst.info/Vol-20/No-1/paper19.pdf

7.	Dr. Sumangala Patil, Dr.A. Nagaraj Rao and Dr. C.Shoba Bindu,	Class level software fault prediction using step wise linear regression, Clustering based class level software fault prediction using symbiotic particle swarm optimization and ensemble extreme learning machine,	Journal of Computational and Theoretical Nanoscience.,	2019	16 (5/6) (2019) 2196-2203.	https://www.ingentaconnect.com/content/asp/jctn/2019/00000016/f0020005/art00074;jsessionid=2fntnrntep4ahe.x-ic-live-02
8.	Dr.Sumangala Patil, Dr.A. Nagaraj Rao and Dr. C. Shoba Bindu,	Class level software fault prediction using step wise linear regression	International Journal of Engineering & Technology	2018	7 (4) (2018), 2552-2557.	https://www.sciencepubco.com/index.php/ijet/article/download/14881/9443
9.	Dr.Sumangala Patil, Dr.A. Nagaraj Rao and Dr. C. Shoba Bindu	Techniques for software design validation: A survey,.	International Journal of Applied Engineering Research.	2015	0973-4562 10 (18) (2015), 39607-39610	https://www.ripublication.com/ijaer10/ijaerv10n18_174.pdf
10.	Dr Virupakshappa	A Novel Automated System for Early Diabetic	Journal of Chemometrics	August 2024	Volume 38 Issue 11 Pages e3593	https://doi.org/10.1002/cem.3593

		Retinopathy Detection and Severity Classification				
11.	Dr Virupakshappa	Addressing Challenges in Skin Cancer Diagnosis: A Convolutional Swin Transformer Approach	Journal of Imaging Informatics in Medicine	October 2024	Volume 38, pages 1755–1775	https://link.springer.com/article/10.1007/s10278-024-01290-9
12.	Dr Virupakshappa	Mobilenet-v2: An enhanced skin disease classification by attention and multi-scale features	Journal of Imaging Informatics in Medicine	October 2024	Volume 38, pages 1734–1754	https://link.springer.com/article/10.1007/s10278-024-01271-y
13.	Dr Virupakshappa	Deep Learning-Based Coverless Image Steganography on Medical Images Shared via Cloud	Engineering Proceedings	October 2023.	<i>Eng.Proc.</i> 2023, 59(1), 176	https://doi.org/10.3390/engproc2023059176
14.	Dr Virupakshappa	Enhancing Skin Disease Segmentation with Weighted Ensemble Region-Based Convolutional Network	Engineering Proceedings	December 2023	Volume 59 Issue 1 Pages 49	https://doi.org/10.3390/engproc2023059049
15.	Dr Virupakshappa	Computer-aided Diagnosis applied	Scalable Computing:	December 2022	Vol. 23 No. 4	https://doi.org/10.12694/scpe.v23i4.2

		to MRI images of Brain Tumor using Spatial Fuzzy Level Set and ANN Classifier	Practice and Experience			024
16.	Dr Virupakshappa	Hybrid image embedding technique using Steganographic Signcryption and IWT-GWO Methods	Microprocessor s and Microsystems	November 2022	Volume 95 , , 104688	https://doi.org/10.1016/j.micpro.2022.104688
17.	Dr Virupakshappa	Secure communication over wireless sensor network using image steganography with generative adversarial networks	Measurement: Sensors	December 2022,	Volume 24 , 100452	https://doi.org/10.1016/j.measen.2022.100452
18.	Dr Virupakshappa	Automatic Face Segmentation Using Adaptively Regularized Kernel-Based Fuzzy Clustering Means With Level Set Algorithm	International Journal of e-Collaboration (IJeC)	August 2022	Volume 18 Issue 3 Pages 1-15	DOI: 10.4018/IJeC.307132
19.	Dr Virupakshappa	Face recognition with illumination, scale and rotation	International Journal of System	July 2022	Volume 15, pages 174–187	https://link.springer.com/article/10.1007/s13198-022-

		invariance using multiblock LTP-GLCM descriptor and adaptive ANN	Assurance Engineering and Management			01688-0
20.	Dr Virupakshappa	Improved face recognition method using SVM-MRF with KTBD based KCM segmentation approach	International Journal of System Assurance Engineering and Management	January 2022	Volume 15, pages 1–12	https://link.springer.com/article/10.1007/s13198-021-01483-3
21.	Dr Virupakshappa	Modified Otsu thresholding based level set and local directional ternary pattern technique for liver tumor segmentation	International Journal of System Assurance Engineering and Management	January 2022	Volume 15, pages 73–83	https://link.springer.com/article/10.1007/s13198-022-01637-x
22.	Dr Virupakshappa	Ultrasound liver tumor segmentation using adaptively regularized kernel-based fuzzy C means with enhanced level set algorithm	International Journal of Intelligent Computing and Cybernetics	July 2022	ISSN: 1756-378X	https://www.emerald.com/insight/content/doi/10.1108/ijicc-10-2021-0223/full/html
23.	Dr Virupakshappa	An Efficient Discrete Wavelet Transform Based Partial Hadamard Feature Extraction and Hybrid Neural	Engineered Science	November 2021	Volume 16 354-365	DOI: 10.30919/es8d594

		Network Based Monarch Butterfly Optimization for Liver Tumor Classification				
24.	Dr Virupakshappa	Facial Image Segmentation by Integration of Level Set and Neural Network Optimization with Hybrid Filter Pre-processing Model	Engineered Science	Dec 2021	Volume:16 Page:211-220	DOI: 10.30919/es8d583
25.	Dr Virupakshappa	An enhanced segmentation technique and improved support vector machine classifier for facial image recognition	International Journal of Intelligent Computing and Cybernetics	April 2022	ISSN: 1756-378X Vol. 15 No.2,pp. 302-317.	https://doi.org/10.1108/IJICC-08-2021-0172
26.	Dr Virupakshappa	Diagnosis of melanoma with region and contour based feature extraction and KNN classification	International Journal of Innovations in Scientific and Engineering Research (IJISER)	May 2021	Volume 8 Issue 5 Pages 157-164	https://scholar.google.com/scholar?cluster=6131012663201241160&hl=en&oi=scholar
27.	Dr Virupakshappa	Optimized Edge Detection Method Using Particle Swarm Optimization	International Journal of Advanced Research in Engineering	June 2020	Volume 11 Issue 6 Pages 1210-1222,	https://www.academia.edu/48867459/OPTIMIZED_EDGE_DETECTION_METHOD_USIN

		Algorithm: An Analysis for Image Processing Applications	and Technology (IJARET)			G_PARTICLE_S WARM_OPTIMI ZATION_ALGOR ITHM_AN_ANA LYSIS_FOR_IMA GE_PROCESSIN G_APPLICATIONS
28.	Dr Virupakshappa	Computer-aided diagnosis applied to MRI images of brain tumor using cognition based modified level set and optimized ANN classifier	Multimedia Tools and Applications	June 2018	Volume 79 Issue 5 Pages 3571-3599	https://link.springer.com/article/10.1007/s11042-018-6176-1
29.	Dr Virupakshappa	A PSO-ACO Based Hybrid Technique for Partial Shape Fusion applied to Content Based Image Retrieval	International Journal of Advanced Science and Technology	January 2020	Volume 29 Issue 1 Pages 1782-1792	https://www.researchgate.net/publication/351060157_A_PSO-ACO_Based_Hybrid_Technique_for_Partial_Shape_Fusion_applied_to_Content_Based_Image_Retrieval
30.	Dr Virupakshappa	Brain MRI segmentation using initial contour KPCM and optimal speed function for improved level set	Springer Health and Technology	January 2019	Volume 9 Issue November Pages701–713	https://link.springer.com/article/10.1007/s12553-018-00288-y

		method				
31.	Dr Virupakshappa	Cognition-based MRI brain tumor segmentation technique using modified level set method	Cognition, Technology & Work	23 February 2018	Volume 21 Issue 3 Pages 357-369	https://link.springer.com/article/10.1007/s10111-018-0472-4
32.	Dr Virupakshappa	An Approach of using Spatial Fuzzy and Level Set Method for Brain Tumor Segmentation	International Journal of Tomography & Simulation	October 2018	ISSN 2319-3336 Volume 31 Issue 4 Pages 18-33	http://ceser.in/ceserp/index.php/ijts/article/view/5690
33.	Dr Virupakshappa	A Segmentation Approach Using Level Set Coding for Region Detection in MRI Images	Computational Signal Processing and Analysis	April 2018	Volume 490 Pages 235-246	https://link.springer.com/chapter/10.1007/978-981-10-8354-9_21
34.	Dr Virupakshappa	A New Approach of Brain Tumor Segmentation Using Fast Convergence Level Set	International Journal of Biomedical Engineering and Science	January 2018	Volume 5 Issue 1 Pages 11-21	https://airccse.com/ijbes/papers/5118ijbes02.pdf
35.	Dr Virupakshappa	Computer Based Diagnosis System for Tumor	International Journal of Pure and Applied	2018	Volume 118 Issue	https://www.researchgate.net/profile/Virupakshappa-

		Detection & Classification: A Hybrid Approach	Mathematics		No. 7 Pages 33-43	Patil/publication/328967884_Computer_Based_Diagnosis_System_for_Tumor_Detection_Classification_A_Hybrid_Approach/links/60b9cbe1a6fdcc22ead3f03a/Computer-Based-Diagnosis-System-for-Tumor-Detection-Classification-A-Hybrid-Approach.pdf
36.	Dr Virupakshappa	Relay Nodule Selection using Opportunistic Routing Algorithm in Wireless Sensor Networks	International Journal for Innovative Research in Science & Technology	July 2016	Volume 3 Issue 2 Pages 296-299	https://www.researchgate.net/profile/Virupakshappa-Patil/publication/378520393_Relay_Nodule_Selection_using_Oportunistic_Routing_Algorithm_in_Wireless_Sensor_Networks/links/65de22f6adf2362b635a699c/Relay-Nodule-Selection-using-Opportunistic-Routing-

						Algorithm-in-Wireless-Sensor-Networks.pdf
37.	Dr Ambika	“Efficient Approach for Steganography Using DWT and RSA Algorithm”,	International Journal of Engineering and Advanced Technology (IJEAT)	June 2019	ISSN: 2249-8958, Volume-8 Issue-5,	https://www.researchgate.net/publication/360911556_Efficient_Approach_for_Steganography_Using_DWT_and_RSA_Algorithm
38.	Dr Ambika	A Survey Paper on Steganography Techniques”	International Journal of Innovative Research in Computer and Communication Engineering	January 2016	ISSN (Online): 2320-9801 ISSN (Print): 2320-9798. Vol. 4 , I ssue 1,	DOI: 10.15680/IJIRCC E.2016. 0401158,
39.	M Shantkumari, SV Uma	Grape leaf image classification based on machine learning technique for accurate leaf disease detection	Multimedia tools and applications 82 (1), 1477-1487	11 april 2022	Volume 82, pages 1477–1487, (2023)	https://link.springer.com/article/10.1007/s11042-022-12976-z

40.	M Shantkumari, SV Uma	Grape leaf segmentation for disease identification through adaptive Snake algorithm model	Multimedia tools and applications	05 November 2020	Volume 80, pages 8861–8879, (2021)	https://link.springer.com/article/10.1007/s11042-020-09853-y
41.	Chandrakant Biradar, Shantkumari	Measurement based Human Brain Tumor Recognition by Adapting Support Vector Machine	IOSR Journal of Engineering (IOSRJEN)	(September. 2013)	e-ISSN: 2250-3021, p-ISSN: 2278-8719 Vol. 3, Issue 9, V1 PP 26-31	https://www.iosrjen.org/Papers/vol3_issue9%20(part-1)/D03912631.pdf
42.	Laeq Sana1 , Dr. Shantkumari Patil2	An Innovative Approach for Tomato Leaf Disease Identification and its Beneficial Impacts	International Research Journal of Engineering and Technology (IRJET)	Volume: 10 Issue: 08 Aug 2023	e-ISSN:2395-0056 p-ISSN:2395-0072	https://www.irjet.net/archives/V10/i8/IRJET-V10I881.pdf

43.	Shanthkumari[1] ,Nisha[2]	A NOVEL APPROACH FOR PLANT LEAF DISEASE IDENTIFICATION USING CONVOLUTIONAL NEURAL NETWORK (CNN)	International Research Journal of Engineering and Technology (IRJET)	Volume: 08 Issue: 08 Aug 2021	e-ISSN: 2395-0056 p-ISSN: 2395-0072	https://www.irjet.net/archives/V8/i8/IRJET-V8I8460.pdf
44.	[1] Shantkumari M, [2]Dr. S V Uma	A survey on Identification of Grape Disease	International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)	Vol 6, Issue 8, August 2019	ISSN (Online) 2394-2320	https://www.technoarete.org/common_abstract/pdf/IJERCSE/v6/i8/Ext_51920.pdf
45.	Shantkumari M1, Sudha H2	Drowsiness Detection with Alarm Monitoring	International Research Journal of Engineering and Technology (IRJET)	Volume: 06 Issue: 07 July 2019	e-ISSN: 2395-0056 p-ISSN: 2395-0072	https://www.irjet.net/archives/V6/i7/IRJET-V6I7458.pdf

46.	Asst. Prof. Shantakumari M1, Sudha2	Efficient Auto Annotation for Tag and Image based Searching over Large Data Set	International Research Journal of Engineering and Technology (IRJET)	Volume: 06 Issue: 07 July 2019	e-ISSN: 2395-0056 p-ISSN: 2395-0072	https://www.irjet.net/archives/V6/i7/IRJET-V6I7415.pdf
47.	Dr. Shubangini Patil, Dr. Rekha Patil	A Critical Survey of Secure GDS (Group Data Sharing) in Big Data Housed in Cloud Computing	JETIR	2019	Volume 6, Issue 5, 2019	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3536093
48.	Dr. K Archana, Dr. Shubangini Patil	Secure Data Deduplication with Dynamic Ownership Management in Cloud Storage	International Journal of Trend in Scientific Research and Development (IJTSRD)	2018	ISSN: 2456-6470	https://www.ijtsrd.com/engineering/computer-engineering/14486/secure-data-deduplication-with-dynamic-ownership-management-in-cloud-storage/k-archana
49.	Dr. Shubangini Patil, Dr. Rekha Patil	Attack detection and mitigation using optimal deep maxout network in cloud computing	International Journal of Adaptive Control and Signal	2022	V-36,I-9,P-2217-2237	https://onlinelibrary.wiley.com/doi/abs/10.1002/acs.3451

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50.	Dr. Shubangini Patil, Dr.Mallinath Swamy,Dr. Shantkumari M, Dr. Laxmi Math	An Enhancement Of Secure and Efficient Data Sharing in Cloud Computing	International Journal of Scientific Research in Engineering and Management (IJSREM)	2022	V-6,I-6,P-8	https://ijsrem.com/download/an-enhancement-of-data-sharing-in-group-and-storage-with-high-security-and-efficiency-in-cloud-computing/
51.	Dr.Shubangini Patil, Dr.Rekha Patil	An optimized and efficient multiuser data sharing using the selection scheme design secure approach and federated learning in cloud environment	International Journal of Pervasive Computing and Communication s	2022	1742-7371	https://www.emerald.com/insight/content/doi/10.1108/ijpcc-02-2022-0047/full/html
52.	Dr. Shubangini Patil, Dr. Rekha Patil	Jaya-based CAViaR: Hadamard product and key matrix for privacy preservation and data sharing in cloud computing environment	International Journal of Grid and Utility Computing	2022	V-14,I-4 P- 389-399	https://www.inderscienceonline.com/doi/10.1504/IJGUC.2023.132620
53.	Savitha patil, Dr m. Sasikala	Segmentation And Identification Of Medicinal Plant Through Weighted	Multimedia Tools and Applications	2022		https://doi.org/10.1007/s11042-022-13201-7

		KNN				
54.	Savitha Patil, Dr M. Sasikala	Multi-Class Plant Classification Based On Convolutional Neural Network Architecture For Accurate Plant Species Detection	Advanced Engineering Science	2022	2096-3246	http://Advancedengineeringsciences.Com/Article/294.html
55.	Savitha Patil, Dr M. Sasikala	A weighted KNN model for identification of medicinal plant Species	Multimedia Tools and Applications	2023		https://doi.org/10.1007/s11042-023-15931-8
56.	Savitha Patil, Dr M. Sasikala	Accurate plant species analysis for plant classification using convolutional neural network architecture	International Journal of Reconfigurable and Embedded Systems (IJRES)	2024	2089-4864	Doi: 10.11591/ijres.v13.i1.pp 160-170.
57.						
58.	Sharanamma M. Hugar, Mohammed Abdul Waheed	“Harnessing Digital Tools for NPK Deficiency Detection in Paddy Cultivation: A Survey”	International Journal of Applied Engineering Research	2023	ISSN 0973-4562	https://dx.doi.org/10.37622/IJAER/18.4.2023.293-301
59.	Sharanamma M. Hugar, Mohammed Abdul Waheed	“Assessing Impact of Nitrogen Deficiency on Paddy Field Yield Estimation: A	Tuijin Jishu/Journal of Propulsion Technology	2023	ISSN 1001 – 4055	https://doi.org/10.52783/tjjpt.v44.i5.2524

		Hierarchical Segmentation and SVM Approach”				
60.	Sharanamma M. Hugar, Mohammed Abdul Waheed	“Using CNN to Identify NPK Deficiencies in Paddy Fields: An Advanced Detection Method”	International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING	2023	ISSN 2147 – 6799	https://ijisae.org/index.php/IJISAE/article/view/4311
61.	Sharanamma M. Hugar, Dr. V. S. Malemath	A new approach for weed detection in agriculture using image processing techniques.	International Journal of Advanced Scientific and Technical Research	May – June 2016	ISSN 2249-9954	http://www.rspublication.com/ijst/index.html
62.	Sharanamma M. Hugar, Prof. Rekha Patil	<u>Design and Simulation of Throughput based QoS MANET Routing for K-color Multiple Packet Reception Devices</u>	International Journal of Advanced Research in Computer Engineering & Technology	Sep - 2012	ISSN: 2278 – 1323	https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=67ec73b0269ecd82f478b820ec284ef2cada1384
63.	Dr.Manjula Biradar	Reliable Routing in MANET with Mobility Prediction via Long Short-Term Memory	International	2023	2405-6456.	https://journals.sagepub.com/doi/10.3233/WEB-220110

64.	Dr.Manjula Biradar	Multipath Load Balancing in MANET via Hybrid Intelligent Algorithm	International	2024	0219-6492	https://doi.org/10.142/S0219649224500102
65.	Dr.Manjula Biradar	Improved Fuzzy C Means with Deep Learning based MANET Routing Model for Multimedia Communication	International	2025	1470-9503	https://DOI: 10.1504/IJNVO.2024.144082
66.	Siddaling ,Mallangouda. Biradar	A NOVEL TO SUPPORT EMERGENCY NAVIGATION SERVICES TO MOBILE USERS FOR THE SAFEST NAVIGATION PATHS AND OPTIMAL SAFETY.	International Research Journal of Engineering and Technology (IRJET)	July 2018	e-ISSN: 2395-0056 , p-ISSN: 2395-0072	https://www.irjet.net/archives/V5/i7/IRJET-V5I7299.pdf
67.	Prof. Shivaprasad Biradar, Dr.Virupakshappa	AG-MSTLN-EL: A Multi-source Transfer Learning Approach to Brain Tumor Detection	Journal of Imaging Informatics in Medicine	2025/2	VOLUME 38 PAGE 245-261	https://link.springer.com/article/10.1007/s10278-024-01199-3
68.	Prof. Baswanthrao Patil	An efficient liver tumor detection using elephant swarm optimized	Int. J. of Medical Engineering and Informatics	06,2024	IJMEI-223460	

		pyramid deep convolution neural network				
69.	Sudha	Ensuring Auto Annotation For Tag And Image Based Searching Over Large Data Set.	IRJET	7 July 2019	e-ISSN(2395-0056) p-ISSN (2395 -0072)	https://www.irjet.net/archives/V6/i7/IRJET-V6I7415.pdf