3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the year

Title of paper	Name of the author/s	Department of the teacher	Name of Journal	Year of publicatior	ISSN number	Link to the recognition in UGC enlistment of the
Online Examination System	M Vinod Kumar, L Praveen, M Alex, Dr. Punyaban Patel	CSE	International Journal of Techno Engineering, Issue II, June 2021	2021	0975-4520	http://ijte.uk/about-us.html
Human action recognition using a hybrid deep learning heuristic	Samarendra Chandan Bindu Dash, Soumya Ranjan Mishra, K. Srujan Raju & L. V. Narasimha Prasad	CSE	Soft Computing	2021	1432-7643	https://link.springer.com/article/10.1007/s00500-021-06149-7
QoS Constrained Network Coding Technique to Data Transmission Using IOT	A. Sathishkumar , T. Rammohan , S. Sathish Kumar , J. Uma , K. Srujan Raju , Aarti Sangwan M. Sivachitra6 and M. Prabu	CSE	Computer Systems Science & Engineering	2022	0267-6192	https://file.techscience.com/ueditor/files/csse/TSP_CSSE-43-2/TSP_CSSE_21694/TSP_CSSE_21694.pdf
Industrial Waste Water Recycling Using Nano graphene Oxide Filters	P. Yuvarani ,S. Vijayachitra ,V. Ranganayaki,S. Sathish Kumar ,K. Srujan Raju ,M. Sivachitra ,and Ishwarya Komalnu Raghavan	CSE	Advances in Materials Science and Engineering	2021	1687-8442	https://www.hindawi.com/journals/amse/2021/4528949/?utm_source=google&utm_medium=cpc&utm_campaign=HDW_MRKT_GBL_SUB_ADWO_PAI_DYNA_JOUR_X_PJ_GROUP3&gclid=EAIaIQobChMIlqfFp4i_-wIVCJ1LBR1hYQIWEAAYASAAEgK8M_D_BwE
An advance of complex multifaceted root learning for parkinsonbehavior using subthalamic nucleus biomarkers	Venkateshwarla Rama Raju, Kavitha Rani Balmuri , Konda Srinivas & G. Madhukar	CSE	IP Indian Journal of Neurosciences	2021	2581-8236	file:///C:/Users/SRI/Downloads/IPIndianJNeurosci-7-3-231-236.pdf

1 2 3 4 5

n AI-Enabled Traffic Management System	M.Sathvik, V.Guru Pavani, V.Surya Sagar, Dr. T. S. Mastan Rao	CSE	Science, Technology and Development	2022	0950-0707	https://jespublication.com/upload/2022-V13I6091.pdf	6
n AI Enabled Toy For Interactive Communication With Kids	Dr. T. S. Mastan Rao	CSE	International Journal of Scientific Research in Engineering and Management (IJSREM)	2022	2582-3930	https://journal.isjrem.com/download/an-ai-enabled-toy-for-interactive-communication-with-kids/	7
Novel Framework To Mitigate Mental Health Issues Using NLP	T.Subha Mastan Rao, Ramaka Manasa, Mamaduru Chandana, Kathi Pavan Kumar	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/uploadedfiles/paper/issue_6_june_2022/25979/final/fin_irjmets1655381621.pdf	8
witter sentiment analysis using ensemble based deep learning iodel towards COVID-19 in India and European countries	D.Sunitha, Raj KumarPatra, N.V.Babu, A.Suresh, Suresh ChandGupta	CSE	Pattern Recognition Letters	2022	0167-8655	https://www.sciencedirect.com/science/article/pii/S0167865522001246#:~:text=The%20obtained%20experimental%20outcomes%20showed,Indian%20and%20European%20people's%20sentiments.	9
erformance analysis of Pneumonia using Convolutional Neural letworks	Dr. G Somasekher	CSE	Nat.Volatiles&Essent.Oils	2021	2148-9637	https://www.nveo.org/index.php/journal/article/view/765	10
ıvestigations on Brain Tumor Classification Using Hybrid Iachine Learning Algorithms	S Rinesh, K Maheswari, B Arthi, P Sherubha, A Vijay, S Sridhar, T Rajendran, Yosef Asrat Waji	CSE	Journal of Healthcare Engineering	2022	2040-2295	https://pubmed.ncbi.nlm.nih.gov/35198132/	11
Iachine learning prediction in bio medical signals	J. SriVidya	CSE	Journal of harbin institute of technology	2021	0367-6234	http://hebgydxxb.periodicales.com/index.php/JHIT/issue/view/117	12

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Comparison Of Fuzzy Logic Systems And Its Applications Using Mathematical And Technological Perspective	Dr.R. Vijaya, Dr.K. Maheswari, Dr.Chandrika V S, Dr.T.Ajith Bosco Raj, Dr. R. Sreeparimala & Dr.S. Karthick	CSE	International Journal of Aquatic Science	2021	2008-8019	http://www.journal-aquaticscience.com/article_132564.html	13
Analyzing Various Graph Theory Applications Using Mathematical	a, Dr.Shaik.Shakeer Bas	CSE	nal Journal of Aquat	2021	2008-8019	http://www.journal-aquaticscience.com/article_132562.html	14
Synthesize a Nuclear Waste Management Process Using Artificial In	ama Masud, P Anandan,	CSE	nergy and power Ge	2021	2325-9809	uclear-waste-management-pr	15
Smart Agricultural Robot Using Raspberry Pi	ni Laxmi, Ghanta Sri La	CSE	urnal of Engineering	2022	2395-0056	rjet.net/archives/V9/i6/IRJET	16
Finger Counting And Virtual Mouse Using Cvlearn	V. Naresh	CSE	Research in Engine	2022	2582-3930	load/finger-counting-and-virtu	17
A Novel Framework to Develop an Efficient Secured Optimization N	Tabeen Fatima	CSE	cientific Research in	2022	2395-6011	https://ijsrst.com/	18
A Novel Framework to Develop an Efficient Secured Optimization N	Saba sultana	CSE	cientific Research in	2022	2395-6011	https://ijsrst.com/	19
A Novel Framework to Develop an Efficient Secured Optimization N	RAHEEM UNNISA	CSE	cientific Research in	2022	2395-6011	https://ijsrst.com/	20
Edge Computing To Improve Resource Utilization And Security In T	K. Mahesh	CSE	ineering, Computing	2021	1934-7197	http://www.journaleca.com/	21
A Novel Frame Work to Improve Security and Performance Issues in	Dr. K Mahesh	CSE	cientific Research in	2022	2395-6011	https://ijsrst.com/	22
A Novel Machine Learning Frame Work For Improving The Efficien	Dr. K Mahesh	CSE	rmation and Comput	2022	1548-7741	http://www.joics.org/	23
A Systematic Review on Machine Learning Algorithms for Diagnosi	Dr. K Mahesh	CSE	cientific Research in	2022	2395-6011	https://ijsrst.com/	24
Novel Computer Vision And Color Image Segmentation For Agricul	Dr. K Mahesh	CSE	Rangsang Research J	2022	2347-7180	s://www.journal-dogorangsan	25
Artificial Intelligence for Cyber Security: A Systematic Mapping of	A. Uday Kiran	CSE	Research in Enginee	2022	2320-9364	https://www.ijres.org/	26
The Analysis of Plants Recognition Based on Deep Learning and Ar	A. Uday Kiran	CSE	Applied Science &	2022	2321-9653	https://www.ijraset.com/	27
Virtual Trial Room	A. Uday Kiran	CSE	Research in Enginee	2022	2320-9364	https://www.ijres.org/	28
VOICE CONTROLLED MOUSE AND KEYBOARD	A. Uday Kiran	CSE	Research in Engine	2022	2582-3930	https://ijsrem.com/	29
Visison-based human Activity recognition	M. Madhusudhan	CSE	ice Research, Ideas a	2022	2454-132X	https://www.ijariit.com/	30
Multi-Platform Sentiment Analysis	M. Madhusudhan	CSE	Research in Engine	2022	2582-3930	https://ijsrem.com/	31
Image Based Appraisal of Real Estate Properties	Dr.G.Somasekhar	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	32
Machine Learning Model To Detect Diseases in Liver	Dr.Punyaban Patel	CSE	Modernization in Er	2022	2582-5208	https://www.irjmets.com/	33
Image Based Classification of Malware Using Deep Learning	A.Kirankumar	CSE	Modernization in Er	2022	2582-5208	https://www.irjmets.com/	34
Pupil Supervising Using Artificial Intelligence	Dr.Maheshwari. K	CSE	Analytical and Exper	2022	0886-9367	http://www.ijaema.com/	35
Detecting Disguised Faces with Transfer Learning	Dr.A.Prabhu	CSE	ntific Research in E	2022	2582-3930	http://www.ijaema.com/	36
Image To Recipe Prediction System	K.Ranjith Reddy	CSE	al of Engineering Sc	2022	0377-9254	s://jesaun.journals.ekb.eg/jou	37
Computer Automation Using Gesture Recognition and Mediapipe	VoruganiNaresh Kumar	CSE	ineering Technology	2022	2321-9653	https://www.ijraset.com/	39
Self-Supervised Learning For Medical Imaging	Dr.BagamLaxmaiah	CSE	arch in Applied Scie	2022	2321-9653	https://www.ijraset.com/	40
Prediction and Classification of Alzheimer Disease Severity Using D	A.Kiran Kumar	CSE	al of Modernization	2022	2582-5208	https://www.irjmets.com/	41
Audio To Sign Language Transcriber Using NLTK and Machine Lea	G. Poornima	CSE	ntific Research in E	2022	2582-3930	https://ijsrem.com/	42
STOCKMarket Prediction Using Machine Learning	R.Dileep Kumar	CSE	al of Engineering Sc	2022	0377-9254	ngineering%20Sciences%20(	43

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Admission Prediction Using Multiple Linear Regression with PCA	G.Vinesh	CSE	International Journal of Scientific Research and Management	2022	2582-3930	s://www.ijsrm.in/index.php/ij	44
AI Model for Digital Evaluation of Descriptive Answers	A.kirankumar	CSE	International Journal of All Research Education and Scientific methods	2022	2455-6211	http://www.ijaresm.com/	45
Designing an Intellective Gaming Using Unity User Interface	G.Latha	CSE	nental Modal Analys	2022	0886-9367	http://www.ijaema.com/	46
Sentence Sentiments Using Machine Learning With Data Analysis	Dr.M.Malyadri	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	47
Private Crypto Token Exchange System	B.P.Deepak Kumar	CSE	entific Research and	2022	2581-7175	http://www.ijsred.com/	48
Information Retrieval using Machine Learning	G.Lavanya	CSE	Analytical and Expe	2022	0886-9367	http://www.ijaema.com/	49
Predictive Analysis of Supermarket Sales Using Machine Learning	DulamMounika	CSE	urnal of Creative Re	2022	2320-2882	https://ijcrt.org/	50
Security Threats to Mobile Multimedia Applications	J. Srividya	CSE	Journal of Engineering Sciences	2022	0377-9254	https://jes.sumdu.edu.ua/	51
Generating Cloud Monitors from Models to Secure Clouds	Dr.Madhukar G	CSE	International journal of analytical and experimental modal analysis	2022	0886-9367	http://www.ijaema.com/	52
Body Stress Detection Using Machine Learning And IOT Technology	G. Poornima	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/	53
Instant Plasma Donor Recipient Connector Web Application	Kalpana Devi Guntoju	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/	54

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ndroid Malware Detection Using Genetic Algorithm	Najeema Afrin	CSE	International Journal of Scientific Research in Engineering and Management	2022	2582-3930	https://ijsrem.com/	55
mart Speed Breaker Control System Based On Time Demand sing Arduino Nano Micro-Controller	Dr.Punyaban Patel	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/	56
roperty Registry And Transactions Using Blockchain	JonnadulaNarasimhara o	CSE	damental & Compar	2022	2277-7067	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3970424	57
Generative Adversarial Network Based Deep Learning Method or Low Quality Defect Image Reconstruction And Recognition	D. Sandhya Rani	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/	58
ive Activity Analysis In Virtual Class Rooms	Dr. K. Srujan Raju	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/	59
dentification OF Weeds From Crops Using Convolutional Neural letworks	K. Ranjith Reddy	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/	60
Missing Child Identification Using Deep Learning and LBPH Algori	Dr. G Soma Sekhar	CSE	rch in Applied Scier	2022	2321-9653	https://www.ijraset.com/	61
mart ATM Pin Recovery System Using Fingerprint Identification A	SrinuVandhanapu	CSE	rch in Applied Scier	2022	2321-9653	https://www.ijraset.com/	62
ace Mask Detection Using Convolution Neural Networks	J. Srividya	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	63
'ulnerability Detection Using Machine Learning	G. Vinesh Shankar	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	64
light Delay Prediction Using Machine Learning Algorithms	Dr. K. Maheswari	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	65
n Intelligent System For Identification Card Detection And Authen	G. Latha	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	66
)Dos Attack Detection Algorithms	Dr.M.Malyadri	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	67

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Social Distance Detection and Alert System Using Yolov3 Model	GadepakaLatha	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	68
Image Plagiarism	GadepakaLatha	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	69
Automating E-government Feedback Services With Machine Learning And Artificial Intelligence	G. Vijay Kumar	CSE	Journal of Education: RabindraBharati University	2022	0972-7175	https://rbu.ac.in/home/page/103	70
Development of Native Mobile Application Using Android Studio for Car Repairing And Servicing	VoruganiNaresh Kumar	CSE	International journal of analytical and experimental modal analysis	2022	0886-9367	http://www.ijaema.com/	71
Faculty Report Generation System	JonnadulaNarasimharao	CSE	cation: RabindraBha	2022	0972-7175	ttps://rbu.ac.in/home/page/10	72
Predictive Analytics for Cyber Threats To Improve Cyber Supply Chain Security	Dr BagamLaxmiah	CSE	cation: RabindraBha	2022	0972-7175	ttps://rbu.ac.in/home/page/10	73
Secure Data Using BlockChain And AI Using SHA 256 Algorithm	D. Sandhya Rani	CSE	ll Research Educati	2022	2455-6211	http://www.ijaresm.com/	74
Modeling and Enhancing Low-Quality Retinal Fundus Images	Najeema Afrin	CSE	International Journal of Scientific Research in Engineering and Management	2022	2582-3930	https://ijsrem.com/	75
Evaluation of Education Apps with App Store Data	B. P. Deepak Kumar	CSE	International Journal of All Research Education and Scientific Methods	2022	2455-6211	http://www.ijaresm.com/	76
An Enhanced System For Detecting Stress In IT Professional By Image Processing and Machine Learning	Dr. K. Maheswari	CSE	International journal of analytical and experimental modal analysis	2022	0886-9367	http://www.ijaema.com/	77
Automated Engagement Recognition in E-Environments	JonnadulaNarasimharao	CSE	IJRTI	2022	2456-3315	https://www.ijrti.org/	78

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79	The Analysis of Plants Recognition Based on DeepLearning and Artificial Neural Network	A. Uday Kiran	CSE	International Journal for Research in Applied Science & Engineering Technology	2022	2321-9653	https://www.ijraset.com/
80	Detection and Classification of Fruit Diseases Using Image Processing and Cloud Computing	Dr. A. Prabhu	CSE	International Journal for Research in Applied Science & Engineering Technology	2022	2321-9653	https://www.ijraset.com/
81	Average Fuel Consumption In Heavy Vehicles Using Machine Learning	G. Vinesh Shankar	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/
82	Bitcoin Price Prediction and Forecasting	K.Ranjith Reddy	CSE	International Research Journal of Engineering and Technology	2022	2395-0056	https://www.irjet.net/
83	Patrolling Robot Using Embedded C	JonnadulaNarasimharao	CSE	International Journal of Research in Engineering and Science	2022	2320-9364	https://www.ijres.org/
84	Supporting Privacy Protection In Personalized Web Search	Dr. K. Srujan Raju	CSE	International Research Journal of Engineering and Technology	2022	2395-0056	https://www.irjet.net/
85	Stress Detection for Wearable Devices	D.Sandhya Rani	CSE	International Journal of Advances and Engineering and Management	2022	2395-5252	https://www.ijaem.net/

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Machine Learning Approach For Click Fraud Detection	Dr. G. Madhukar	CSE	International Journal of Scientific Research in Engineering and Management	2022	2582-3930	https://ijsrem.com/	86
Text Summarization Using Word Frequencies	Dr.Punyaban Patel	CSE	International Journal of Innovative Research in Engineering	2022	2582-8746	https://www.ijirem.org/	87
Language Converter Using Python	Najeema Afrin	CSE	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208	https://www.irjmets.com/	88
Automating Pacman with Deep Q-Learning Using PYgame	G.Vijay Kumar	CSE	International Journal of Innovative Research in Engineering	2022	2583-8746	https://www.ijirem.org/	89
Encryption and Decryption Algorithm Based on Neural Network	Dr.M.Malyadri	CSE	International Journal of Advances in Engineering and Management	2022	2395-5252	https://www.ijaem.net/	90
Smart Agriculture Robot Using Raspberry Pi	B.P.Deepak Kumar	CSE	International Research Journal of Engineering and Technology	2022	2395-0056	https://www.irjet.net/	91
Image Style Transfer Using Machine Learning	Dr.BagamLaxmaiah	CSE	International Journal for Research in Applied Science & Engineering Technology	2022	2321-9653	https://www.ijraset.com/	92

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CR Of Handwritten Forms	Dr. A. Prabhu	CSE	International Journal of Research in Engineering and Science	2022	2320-9364	https://www.ijres.org/	93
ustomer Profiling And Credit Scoring In Banking Using Back-Flov	LathaGadepaka	CSE	Modernization in En	2022	2582-5208	https://www.irjmets.com/	94
lorse Code Translator Using Eye Blinks	Kavitha Reddy Guda	CSE	rch in Applied Scier	2022	2321-9653	https://www.ijraset.com/	95
call reservation scheme for channel allocation using predication ap	Dr. G Vinoda Reddy	CSE(AI & ML)	of Nonlinear Analys	2022	2008-6822	https://ijnaa.semnan.ac.ir/article_5676.html	96
Review on Machine Learning Algorithms and lassification echniques in Diabetes Medical Diagnosis and Healthcare Systems	Dr. G Vinoda Reddy, M sreenu naik	CSE(AI & ML)	JETIR	2022	2349-5162	https://www.jetir.org/view?paper=JETIR2206096	97
Novel study on Cloud Computing Applications, Energy fficiencyModels	Dr. G Vinoda Reddy, Rafath Samrin	CSE(AI & ML)	The International journal of analytical and experimental modal analysis	2022	0886-9367	https://www.mililink.com/issue_content.php?id=59&iId=389&vol=20&is=11&mon=September&yer=2021&pg=2487-2985	98
RAS : Development of Prototype Cloud Model for Failure ecovery Management by Using Backup Resource Allocation trategy	Dr. G Vinoda Reddy, M parvathi Devi	CSE(AI & ML)	International Journal of Scientific Research in Science and Technology	2022	2395-6011	https://doi.org/10.32628/IJSRST229310	99
)ptimizing QoS-Based Clustering Using a Multi-Hop with Single 'luster Communication for Efficient Packet Routing	Dr. G Vinoda Reddy	CSE(AI & ML)	International Journal of Electrical and Electronics Research	2022	2347-470X	https://ijeer.forexjournal.co.in/archive/volume-10/ijeer-100203.html	100
mplementation of Prediction Model for Medical Diagnosis of Breast Cancer Using Machine Learning Algorithms and 'lassification Techniques	Dr. G Vinoda Reddy, M Parvathi Devi	CSE(AI & ML)	International Journal of Innovative Research in Technology	2022	2349-6002	https://ijirt.org/Article?manuscript=155468	101
n Intelligent Intrusion Detection and Classification System using 'SGO-LSVM Model for Wireless Sensor Networks (WSNs)	Dr. G Vinoda Reddy	CSE(AI & ML)	IJISAE	2022	2147-6799	https://ijisae.org/index.php/IJISAE/article/view/2167	102
Novel Machine learning frame work for improving the efficiency f health systems using software engineering technique	Dr. Mahesh Kotha, Shaik Sharif	CSE(AI & ML)	Journal of international computational science	2022	1548-7741	https://ieeexplore.ieee.org/document/8974224	103

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. Systematic Review of machine learning algorithm fo diagnisis of iabets in health care systems	Dr. Mahesh Kotha	CSE(AI & ML)	International Journal of Scientific Research in Science and Technology	2022	2395-602X	www.ijsrst.com	104
. Novel Frame Work to Improve Security and Performance Issues ı Healthcare System using Cloud Computing	Dr. Mahesh Kotha, Shaik Sharif	CSE(AI & ML)	International Journal of Scientific Research in Science and Technology	2022	2395-602X	www.ijsrst@gmail.com	105
lentification of triple negative breast cancer genes using rough set ased feature selection algoritham and ensemble classifier	Dr. K.Srinivas	CSE(Data Science)	Human-centric computing and information sciences	2022	2192-1962	10.22967/HCIS.2022.12.054	106
Squirrel Search-based Optimal Feature Extraction with Bi-LSTM or the Arrhythmia Classification using ECG	Dr. K.Srinivas	CSE(Data Science)	Journal of Theoretical and Applied Information Technology(SCOPUS)	2021	1992-8645	https://www.jatit.org/	107
. Hybrid Mayfly-Aquila Optimization Algorithm Based Energy-fficient Clustering Routing Protocol for Wireless Sensor letworks.	Dr. K.Srinivas	CSE(Data Science)	Sensors	2021	1424-8220	https://doi.org/10.3390/s22176405	108
Vehicle Type Classification using Graph Ant Colony Optimizer ased Stack Autoencoder Model"	Dr. K.Srinivas	CSE(Data Science)	Sensors	2021	1424-8220	https://doi.org/10.1007/s11042-021-11508-5	109
. Long Short-Term Memory Network-Based Radio Resource Management for 5G Network.	Dr. K.Srinivas	CSE(Data Science)	Sensors	2021	1424-8220	https://doi.org/10.3390/fi14060184	110
Machine learning approach for prediction of residual energy in atteries	Dr. B.Shankar naik	CSE(Data Science)	Sensors	2021	1424-8220	https://www.sciencedirect.com/science/article/pii/S235248472201962X	111
Detection and prevention of cyber Attacks on cloud-Based Data Centers using Machine Learning	A.Mahender	CSE(Data Science)	IJCDS	2022	2210-142X	https://dx.doi.org/10.12785/ijcds/120185	112
rtificial Intelligence driven knoeledge process outsourcing	V.Sandya	CSE(Data Science)	Indian patent	2021	4102-9078	https://ipindia.gov.in/	113

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usion Based Architecture for Telugu Text Summarization	Kishore Kumar M	CSE(Data Science)	Journal of Huazhong University of Science and Technology	2021	1671-4512	https://www.scijournal.org/impact-factor-of-j-huazhong-u-sci-med.shtml	114
Long Short-Term Memory Network-Based Radio Resource Management for 5G Network	Kavitha Rani Balmuri Srinivas Konda Wen-Cheng Lai Parameshachari Bidare Divakarachari Kavitha Malali Vishveshwarappa Gowda Hemalatha Kivudujogappa Lingappa	IT	Future Internet	2022	1999-5903	https://www.mdpi.com/1999-5903/14/6/184/pdf	115
Vehicle type classification using graph nt colony optimizer based stack autoencoder model	B. Kavitha Rani, M. Varaprasad Rao, Raj Kumar Patra, K. Srinivas & G. Madhukar	IT	Multimedia Tools and Applications(SCI)	2022	42163–42182	https://link.springer.com/article/10.1007/s11042-021-11508-5	116
rediction of Muscular Paralysis disease based on hybrid feature xtraction with Deep Learning Technique	Prabu Subramani, Srinivas K, Kavitha Rani B, Sujatha R, Parameshachari B D	IT	Personal and Ubiquitous Computing (SCI)	2022	1617-4909	https://link.springer.com/article/10.1007/s00779-021-01531-6	117
Cognitive linear discriminant regression computing technique for ITTP video services in SDN networks	B. D. Parameshachari, Sasikumar Gurumoorthy, Jaroslav Frnda, S. Christalin Nelson & Kavitha Rani Balmuri	IT	Springer, Singapore. https://doi.org/10.1007/978-981-16-8550-7_48	2022	1432-7643	https://link.springer.com/article/10.1007/s00500-021-06531-5	118
mplementation of Speed-Efficient Key-Scheduling Process of AES or Secure Storage and Transmission of Data	Thanikodi Manoj Kumar ,Kavitha Rani Balmuri ,Adam Marchewka ,Parameshachari Bidare Divakarachari and Srinivas Konda	IT	. https://doi.org/10.3390/ s21248347	2022	1424-3210	https://www.mdpi.com/1424-8220/21/24/8347	119

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Industrial Waste Water Recycling Using Nanographene Oxide Filters

P. Yuvarani [1], S. Vijayachitra [2], V. Ranganayaki,[3] S. Sathish Kumar [4], K. Srujan Raju [5], M. Sivachitra [6] and **Ishwarya Komalnu Raghavan** [7]

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Abstract

Nanomaterials play a vital role in healthcare, electronics, manufacturing industries, biotechnology, and security systems. One such material is graphene and its oxides are specifically used for recycling industrial waste water. Graphene, a single layer in honeycomb cross section, provides excellent attention because of its significant optical, mechanical, and physical properties. GO was utilized to decrease the acidic or essential centralization of the mechanical wastewater into reusable water for the modern reason utilizing graphene channels. In this paper, sample solution (waste water) is taken from paper industry. Graphene channels can be created from the pencil graphite. Graphene has the high goals of separating capacity, and graphene is considered as "a definitive RO film" in light of its stronger, thinner, and more chemically safe nature than the polymer layers. Graphene oxide layers are likewise to be used in the desalination plant in place of the RO membrane.

1. Introduction

Nowadays, waste water coming from industries produces major problem to surroundings as well as creates pollution to the environment. Public and government forced the industries to recycle or reduce the waste coming out to stringent standards. Water is one of the primary sources for the process industries such as chemical industry, paper industry, food processing, and cement industry, as well as some other industries which used as coolants' boiler feed water. So, the water used should be free from toxic substances, scale-forming solutes, corrosive substances, and pathogens. Improper treatment will cause contaminations and reduction in processes and may result in poor performance, product deterioration, and sometimes overall process failure. So, various factors need to be considered

(14)

Analyzing Various Graph Theory Applications Using Mathematical And Computational Intelligence Approach

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Abstract

Graph theory is a branch of discrete mathematics that deals with the connections among fundamental results in other areas of pure mathematics. The aim of this study is two folds: first, to understand the basic notion of graph theory and second, to emphasis the significance of graph theory through a real-time application used as a representational form and characterization of brain connectivity network, as is machine learning for classifying groups depending on the features extracted from images. This application uses different techniques including preprocessing, correlations, features or algorithms. This paper illustrates an automatic tool to perform a standard process using images of the Magnetic Resonance Imaging (MRI) machine. The process includes pre-processing, building the graph per subject with different correlations, atlas, relevant feature extraction according to the literature, and finally providing a set of machine learning algorithms that can produce analyzable results for physicians or specialists. Further, to demonstrate the importance of graph theory, this article addresses the most common applications for graph theory in various fields. This paper also presents a survey on the graph theory challenges relevant to their approaches and techniques.

Keywords

Graph Theory ; Applications ; Computational Intelligence ; Set Theory ; Representations

A Novel Frame Work to Improve Security and Performance Issues in Healthcare System using Cloud Computing

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Dr. Mahesh Kotha · Annapurna Gummadi · Shaik Sharif · Bodla Kishor

Abstract

Cloud computing became a huge servicing platform to many domains for organizational growth. Virtualization, autonomic, utility computing and service oriented architecture made cloud computing robust. One of the major contributions of cloud computing to the health care systems is prominent one. In this paper we propose a framework that depicts various security and performance issues related to health care domain with the support of cloud computing. Beginning with a device of well known statistics protection the board procedures got from norms of the ISO 27000 own family the principle statistics protection tactics for medical care associations utilising distributed computing could be diagnosed thinking about the number one risks with admire to allotted computing and the sort of facts treated. The distinguished cycles will help a well being with worrying association utilising distributed computing to zero in on the most significant isms methods and lay out and work them at a becoming degree of development thinking about restricted property. We examine dangers and emergencies for medical care suppliers and talk about the effect of distributed computing in such situations. The research is led in an all encompassing manner, considering hierarchical and human angles, medical, it-associated, and utilities-associated takes a chance in addition to joining the angle on the overall gamble the executives. We ruin down risks and emergencies for medical care suppliers and study the impact of dispensed computing in such situations. The research is directed in a complete manner, thinking about hierarchical and hum

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Computer Automation Using Gesture Recognition and Mediapipe

Authors: Aditya Madhira, Naresh Mote, Voruganti Naresh Kumar

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Abstract

Automation is the use of technology to accomplish a task with as little human interaction as possible. In computing, automa tion is usually accomplished by a program, a script, or batch processing. Gesture recognition is a topic in computer science and language technology with the goal of interpreting human gestures. Automation of tasks can be achieved with the help o f “Gestures”. Using Gestures to interact with the computer is a way of achieving Human Computer Interaction with less utili zation of physical devices. Our system consists of four phases: Facial Authentication, Hand Tracking, Gesture Recognition, Automation

Ameddy

Introduction

I. INTRODUCTION

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Predictive Analysis of Supermarket Sales Using Machine Learning

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Abstract: Future sales forecasting is a crucial component of every organisation. Accurate prediction of future sales help companies to develop and improve business strategies as well as to gain proper market knowledge. Standard sales projections let companies analyse historical scenarios and then apply client purchases. Before budgeting, inferences are used to detect shortfalls and weaknesses, as well as to construct a good strategy for the following year. A detailed knowledge of past opportunities permits one to plan for future market needs and increase the possibility of success

I. INTRODUCTION

Predicting the future demand of any product and stocking them accordingly is an essential in every business organization. With a precise prediction one can achieve better customer retention and satisfaction and avoid over-stock and under-stock situations. Accurate forecasts of future sales assist the firm in developing a business plan or strategy based on market demand and present conditions. Standard sales forecasting helps firms in reviewing historical scenarios and then implementing customer purchase inferences to Prior to budgeting and establishing a strong plan for the following year, evaluate shortcomings and weaknesses. A thorough understanding of previous opportunities enables one to plan for future market demands and increase one's likelihood of succeeding. Regardless of external factors, firms that view sales modelling as the first step toward improved performance outperform those that do not.

II. PROBLEM STATEMENT

1. Currently, Big Marts keep track of each individual item's sales data in order to anticipate potential consumer demand and update inventory management.
2. With the help of data science, engineers help the marts by predicting the sales per product. By good prediction the products can be sold efficiently and stores can generate good profits from them.
3. Anomalies and general trends are often discovered by mining the data warehouse's data store. For retailers like Supermarket, the resulting data can be used to forecast future sales volume using various machine learning techniques.
4. A predictive model can be developed using Xgboost, Linear regression, Polynomial regression, and Random Forest techniques for forecasting the sales of a business.

III. OBJECTIVES

The objective of our work is to:

1. Analyzing the past sales of the products
2. Understanding the factors that effect the sales of a product
3. Deriving inferences related to those sales
4. Predicting the future sales from the inferences derived
5. Help the businesses stock up/stock down products accordingly

IV. METHODOLOGY

The automated detection of meaningful patterns in the data is referred to as machine learning. In the last few decades, it has become a highly frequent tool in practically every work that demands the extraction of information from massive amounts of data. We are surrounded by machine learning-based technology: browsers learn how provide us with the best results (while also placing pro table ads),Anti-spam software learns how to filter our email messages, and credit card transactions are protected by fraud-detection software. Ai - powered assistance applications on smartphones learn to recognize voice commands, whereas digital cameras learn to detect faces. Machine learning algorithms are used to build accident prevention systems into autos. Machine learning is being employed in a variety of sectors, including medicine, science, agriculture, education, technology, bioinformatics, and astronomy. These fields have evolved a lot in the past few decades and the data collected out of it is very huge. It would be near to impossible to try extracting useful and powerful patterns out of such huge, complex data using a simple conventional computer. A human programmer cannot give attention to all these complex details which are required for pattern recognition. Machine Learning algorithms now enter the scene, solving all of these issues and providing us with the finest possible outcome.

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Missing Child Identification Using Deep Learning and LBPH Algorithm

Soma Sekhar G[1], Madhav B[2], Sunil B[3], Sravani G[4]
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Abstract*—Crimes are at rise and turning into hard for police to become aware of and rescue the Missing Persons. Our Proposed System will use Face Recognition Algorithms and could have the capability for IRIS recognition as well to detect Missing Persons. Face Recognition begins with extracting the coordinates of features such as width of mouth, width of eyes, pupil and comparing the result with the measurement stored in the database and returning the closest record. Nowadays, face recognition techniques are growing around the world. We will be using advanced algorithms like LBPH for our system and also compare to other older algorithms to prove higher accuracy of our system. We will be building a web based system integrated with Backend Machine Learning server. The Backend ML system will handle all the search, detection and recognition using our face recognition and Iris Recognition Model and all the data stored in the database.

***Keywords*— Face Recognition; LBPH algorithm; Iris detection; Deep Learning; Extraction;Opencv**

I. INTRODUCTION

As we recognise that India is the second largest country in the world if it involves population. And there are numerous kids amongst us. As there may be a great saying "TODAYS CHILDREN ARE TOMORROW'S CITIZENS", So as a citizen of India it is our responsibility to save our children from kidnappings or missing in crowd places and any religious or social gatherings etc. As per the survey on an average of 175 children are missing every day and Half of them were being untraced.

II. LITERATURE SURVEY

The proposed method is primarily based totally on identification of the face and iris of the missing child. The earliest strategies for face recognition commonly used CNN.However , features extracted using a LBPH for getting facial representations give better performance in face recognition. Iris of the missing child is also detected in the proposed system. For iris detection we are using a gabor filter.Here within the portal public can upload the iris and face images to identify the missing child.

III. PROPOSED SYSTEM

We will be building a web-based system integrated with a Backend Machine Learning Server. It will allow users to login, upload details of a missing child , browse for a missing child, search for a missing child. The Backend Machine Learning system will handle all the detection and recognition using our face recognition and iris recognition model and all the data stored in the database. We will be using advanced algorithms like LBPH for our system and also compare to other older algorithms to prove higher accuracy of our system. We will be using theGabor filter algorithm to extract the features of IRIS of individual missing children which can be used for IRIS recognition.

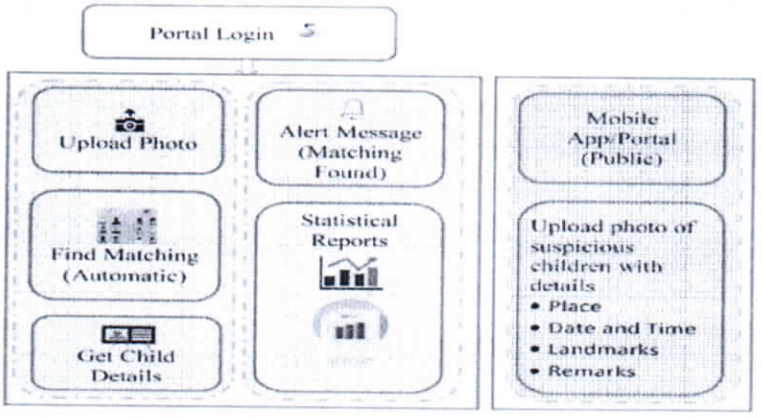

Figure 3.1: Architecture of the model

98

A call reservation scheme for channel allocation using predication approach (CAPA) in wireless networks

Document Type : Research Paper

Authors

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10.22075/IJNAA.2021.24719.2807

Abstract

The uncommitted bandwidth of the spectrum must be expeditiously employed by the mobile users, since nowadays the mobile users are rising step by step. The major aim of the channel reservation process is to minimize the probability of call dropping and an effective channel assignment approach can significantly minimize such probability of call dropping. There is several channel allocation and assignment approaches has been presented. In our paper, the Channel Allocation using Prediction Approach (CAPA) algorithm is presented. The CAPA algorithm appropriates the channel reservation for mobile users in the destination cell before the mobile user travels into that particular cell. The channels are pre-reserved while the mobile users are travelling inside some distance of the novel cell bound. Channel Adoption approach and Queuing approach are employed in our CAPA algorithm for apportioning the channel to predict permanent and temporary mobile users. In channel Adoption approach, free channels choose from the fundamental pool and optimally apportioned to permanent user. For temporary user, queuing approach is implemented and these approaches are employed to minimize the probability of call dropping and apply the available channel bandwidth efficiently. Hence, the Performance of CAPA algorithm is improved while compared to other existing channel reservation algorithms.

Keywords

Channel Allocation ; Qos ; CAPA ; Call Management ; Call Dropping

1220: Visual and Sensory Data Processing for Real Time Intelligent Surveillance System
Published: 14 July 2022

Vehicle type classification using graph ant colony optimizer based stack autoencoder model

B. Kavitha Rani, M. Varaprasad Rao, Raj Kumar Patra, K. Srinivas & G. Madhukar

Multimedia Tools and Applications **81**, 42163–42182 (2022)

Abstract

In the intelligent transport system, vehicle type classification technology plays a major role. With the growth of video processing and pattern recognition application, a deep learning model is proposed in this research article to improve vehicle type classification under dynamic background. Initially, the original video sequences are collected from MIOvision Traffic Camera Dataset (MIO-TCD), and CDnet2014 dataset. Additionally, the contrast and visible level of the video frames are improved by implementing histogram equalization method. Next, the moving vehicles are detected and tracked using Gaussian Mixture Model (GMM) and Kalman filter. Then, the feature extraction is accomplished using Dual Tree Complex Wavelet Transform (DTCWT), Histogram of Oriented Gradients

> Comput Intell Neurosci. 2022 May 27;2022:3149406. doi: 10.1155/2022/3149406. eCollection 2022.

Lung Cancer Detection Based on Kernel PCA-Convolution Neural Network Feature Extraction and Classification by Fast Deep Belief Neural Network in Disease Management Using Multimedia Data Sources

Deepak Kumar Jain [1], Kesana Mohana Lakshmi [2], Kothapalli Phani Varma [3], Manikandan Ramachandran [4], Subrato Bharati [5]

Affiliations

PMID: 35669646 PMCID: PMC9167006 DOI: 10.1155/2022/3149406

Free PMC article

Abstract

In lung cancer, tumor histology is a significant predictor of treatment response and prognosis. Although tissue samples for pathologist view are the most pertinent approach for histology classification, current advances in DL for medical image analysis point to the importance of radiologic data in further characterization of disease characteristics as well as risk stratification. Cancer is a complex global health problem that has seen an increase in death rates in recent years. Progress in cancer disease detection based on subset traits has enabled awareness of significant as well as exact disease diagnosis, thanks to the rapid flowering of high-throughput technology as well as numerous ML techniques that have emerged in recent years. As a result, advanced ML approaches that can successfully distinguish lung cancer patients from healthy people are of major importance. This paper proposed lung tumor detection based on histopathological image analysis using deep learning architectures. Here, the input image is taken as a histopathological image, and it has also been processed for removing noise, image resizing, and enhancing the image. Then the image features are extracted using Kernel PCA integrated with a convolutional neural network (KPCA-CNN), in which KPCA has been used in the feature extraction layer of CNN. The classification of extracted features has been put into effect using a Fast Deep Belief Neural Network (FDBNN). Finally, the classified output will give the tumorous cell and nontumorous cell of the lung from the input histopathological image. The experimental analysis has been carried out for various histopathological image datasets, and the obtained parameters are accuracy, precision, recall, and F-measure. Confusion matrix gives the actual class and predicted class of tumor in an input image. From the comparative analysis, the proposed technique obtains enhanced output in detecting the tumor once compared with an existing methodology for the various datasets.

Figures

Supplementary Issue 1 — Blockchain Assisted Cyber Physical System for Cyber Security
Guest Editors: BalaAnand Muthu, Imran Shafique Ansari, Xuan Liu (yusuf)

Abstract

In the present-day digital world, the transmission of information like voice, text, video, etc. demands more bandwidth for fast and accurate transmission. Usually, 90% of information transmitted is the human voice, and various speech processing techniques are adapted for optimizing the bandwidth requirement and enhancing the performance of multiple modules like vocoders in mobile networks. To test the performance analysis of various vocoders, we used a Wireshark simulator with an Asterisk, and it is a software implementation of a private branch exchange (PBX). This work presents the performance evolution of existing voice over internet protocol (VoIP) vocoders using Wireshark with PBX Asterisk's, The PBX Asterisk's to analyze and capture the packets or sniffers. The Wireshark tools can diagnose the errors, the traffic flow with a graphical view and generate the statistics in the network. It is a software tool to analyze the traffic data with an intuitive and simple graphical interface in software tools are used to study. The extensive simulations are performed, and the percentage of data saved was calculated and compared with the various vocoders.

Keywords: Private branch exchange · wire shark · voice over internet protocol

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Neural Network Based Prolong Structural Building Monitoring Management System Using Hybrid Wireless Sensor Network

PDF (https://www.nveo.org/index.php/journal/article/view/1233/1078)

Dr. C. Jenifa Latha, Ramanarayan Sankriti, Dr.Sudha Arvind, Ali Baig Mohammad, Dr.MS.Mariam Jenabhar

Abstract

The wireless sensor network is well suited for smart building monitoring system as it is cost effective compared with wired network. A hybrid protocol that uses concept of LEACH to increase the life time of sensor network and HRP protocol for effective communication to base station is use in building monitoring system. The sensors such as humidity sensor, strain sensor, temperature sensor, and electrical current monitoring sensor are deployed in huge amount around the building infrastructure and these sensor are organized as different clusters. At initial stage cluster head sensor activates few member sensors for gathering information and rest of sensors are inactive state. This increases the life time of sensor network. If anything happens abnormal then few more sensors are activated to gather more information by cluster head. A neural network is implemented to isolate information from the cluster member nodes and communicate effectively to sink node. In order to reduce the work load of cluster head node, Information Collection Node (ICN) and Energy Monitoring Node (EMN) are added in each cluster to isolate information and monitor energy level of cluster member nodes. Thus hybrid protocol for structural building monitoring system is implemented that increases life time and effectively convey sensory information to sink node in wireless sensor network.

Issue

Volume: 8 Issue: 4 (https://www.nveo.org/index.php/journal/issue/view/29)

Section

Articles

Journal of Engineering Science and Technology
Vol. 16, No. 5 (2021) 4138 - 4148

NOVEL TECHNIQUES OF ELLIPTICAL ARRAY OPTIMIZATION USING GRASSHOPPER ALGORITHM

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Abstract

Elliptical antenna array (EA) is one of the preferred geometries with excellent control on the radiation pattern significantly better than circular array. In this paper, efficient optimization of the EA with good number of examples is presented with the objective of SLL suppression along with the beam width (BW) using novel grasshopper optimization algorithm (GOA). The synthesis techniques like amplitude only (Amp-only) and Amplitude position (Amp-Ph) are compared in EA design with emphasis to the objective. The results are compared with ant lion optimization algorithm (ALO) and uniform distribution. The performance of the GOA is evaluated while comparing with the so far available best results with the modified/corrected array factor of the EA.

Keywords: Amplitude position technique, Elliptical antenna array, Grasshopper algorithm (GOA).

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REAL TIME MONITORING OF INDUSTRIAL MACHINES USING IOT WITH SMS ALERT SYSTEM

Suraya Mubeen, Nuligonda Sai Shiva

Keywords: Alert System, Machines, unique system,ARDUINO IDE, GSM.

Abstract

Many different kinds of machinery are at work in factories. An example of maintenance, "corrective maintenance" involves finding the source of a problem, fixing it, and then testing to make sure the fixed system is functioning properly. The primary goals of this paper are to provide an early warning system in the event of a breakdown, to present the machine status in a single, easily digestible view, and to calculate machine performance in order tomaximize efficiency. The sooner we can convey the problem; the less time is lost in communication and the sooner the equipment breakdown is handled, the less time is lost in production as a result of the breakdown. As a result, we've created a quick method for dealing with malfunctioning factory machinery through text message, leading to three main benefits: 1) real-time monitoring of machine breakdown status via the Internet of Things; 2) an alert system for efficient communication; and 3) a consolidated overview of all machines. This strategy, when combined with the Internet of Things, will produce a novel system with novel solutions.

PDF

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2022-10-12

How to Cite

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More Citation Formats

Issue

Vol. 41 No. 10 (2022)

DESIGN OF SMART HOME IMPLEMENTATION WITHIN IOT NATURAL LANGUAGE INTERFACE

Dr. B. Doss, Kemmasarapu Naresh

Keywords: Application, Internet of Things (IoT), sensor data, smart home system, SVM algorithm

Abstract

This research optimizes queries by making use of multiple Join operators, which is particularly useful for processing continuous sensor data in Internet of Things (IoT) settings. It sorts and reduces data for better storage management using SVM classification. Optimizing Join queries with global shared query execution. Experiments were run to determine the best kernel function for SVM classification and the effects of sliding window size on system performance. Classified and reduced sensor data were used to enable intelligent control of home devices in a smart home system that can actively respond to users. Decision trees were used to categorize sensor data (temperature, humidity, gas) used to recognize the current conditions of an IoT-based smart home system. A total of five sensors were integrated into the system's design to enable intelligent control of heating and cooling as well as security measures like smoke and fire detection. Multiple Join improves performance with few searches, according to experiments. This research used the sigmoid kernel function with the SVM classification algorithm. The SVM classification algorithm's average error rate was 2.42 percent, the reduction result was 17.58 percent, and the classification accuracy was 85.94 percent. Comparing SVM to other classification algorithms showed a 9% performance improvement. This algorithm is expected to increase system efficiency and convenience by configuring a more intelligent environment based on the user's preferences.

Published
2022-10-12

How to Cite

Dr. B. Doss, Kemmasarapu Naresh. (2022). DESIGN OF SMART HOME IMPLEMENTATION WITHIN IOT NATURAL LANGUAGE INTERFACE. *Journal of Optoelectronics Laser*, *41*(10), 190–207. Retrieved from http://www.gdzjg.org/index.php/JOL/article/view/1234

Original Paper | Published: 19 November 2021

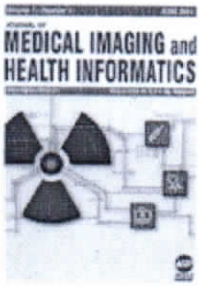
Design of two-dimensional photonic crystal based ultra compact optical RS flip-flop

Savita Soma, Mahesh V. Sonth & Sanjaykumar C. Gowre

Photonic Network Communications **43**, 109–115 (2022)

Abstract

The presented research deals with designing of a new ultra compact all-optical RS flip-flop on a two-dimensional (2-D) hexagonal photonic crystal platform. The flip-flop is designed by using two NOR gates, photonic crystal waveguides, four silicon ring resonators, four input ports and two output ports. The designed flip-flop structure has hexagonal silicon rods in the air host with a lattice constant a of 630 nm. Si rods have a radius of $0.2a$ and operating waveleangth of 1550 nm. The novel design provides proper distinction between logic 1 and logic 0 at the output by giving 8.7 dB and 4 dB contrast ratio at *Q* and *Qbar* output, respectively. Furthermore, uncomplicated structure resulting in small dimension of 28 μm * 28 μm makes it appropriate for optical integrated circuit in optical networks. FDTD method is used to model the proposed structure and simulated using RSoft FullWAVE simulator tool.



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Detection of Structure Characteristics and Its Discontinuity Based Field Programmable Gate Array Processor in Cancer Cell by Wavelet Transform

Authors: Arunachalam, P. [1]; Venkatakrishnan, P. [2]; Janakiraman, N. [1]; Sangeetha, S. [3];
Source: Journal of Medical Imaging and Health Informatics, Volume 11, Number 12, December 2021, pp. 3066-3081(16)
Publisher: American Scientific Publishers
DOI: https://doi.org/10.1166/jmihi.2021.3902

Abstract | References | Citations | Supplementary Data | Suggestions

Digital clinical histopathology is one of the crucial techniques for precise cancer cell diagnosing in modern medicine. The Synovial Sarcoma (SS) cancer cell patterns seem to be a *spindle shaped cell* (SSC) structure and it is very difficult to identify the exact oval shaped cell structure through pathologist's eye perception. Meanwhile, there is necessitating for monitoring and securing the successful and effective image data processing in the the huge network data which is also a complex one. A field programmable Gate Array (FPGA) was regarded as a necessary one for this. In this work, based on FPGA a Cancer Cell classification is made for the regulation and execution. Hence, mathematically the SSC regularity structures and its discontinuities are measured by the *holder exponent* (HE) function. In this research work, HE values have been determined by Wavelet Transform Modulus Maxima (WTMM) and Wavelet Leader (WL) methods with basis function of Haar wavelet based on FPGA Processor. The quantitative parameters such as Mean of Asymptotic Discontinuity (MAD), Mean of Removable Discontinuity (MRD) and Number of Discontinuity Points (NDPs) have been considered to determine the prediction of discontinuity detection between WTMM and WL methods. With the help of receiver operating characteristics (ROC) curve, the significant difference of discontinuity detection performance between both the methods has been analyzed. From the experimental results, it is clear that the WL method is more practically feasible and it gives satisfactory performance, in terms of sensitivity and specificity percentage values, which are 80.56% and 59.46%, respectively in the blue color components of the SNR 20 dB noise image.

Keywords: Field Programmable Gate Array (FPGA) Processor; Holder Exponent; Sensitivity; Specificity; Synovial Sarcoma; Wavelet Leaders; Wavelet Transform

Document Type: Research Article

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Publication date: December 1, 2021

ARTICLES

Synthesis and characterization of ZnS-based quantum dots to trace low concentration of ammonia

Uma Devi Godavarti[1], P. Nagaraju[1], Vijayakumar Yelsani[2], Yamuna Pushukuri[3], P. S. Reddy[4] and Madhavaprasad Dasari[5]

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1. Received 16 April 2021

Abstract

In the present work, a solution-based co-precipitation method has been adopted to synthesize pure and cobalt-doped ZnS quantum dots and characterized by XRD, SEM, TEM with EDX, FTIR and gas sensing properties. XRD analysis has shown a single phase of ZnS quantum dots having a zinc blend structure. TEM and XRD line broadening indicated that the average crystallite size in the sample is in the range of 2 to 5 nm. SEM micrographs show spherical-shaped quantum dots. FTIR studies show that cobalt has been successfully doped into the ZnS cubic lattice. EDX spectra have analyzed the elemental presence in the samples and it is evident that the spectra confirmed the presence of cobalt (Co), zinc (Zn), oxygen (O), and sulphur (S) elements only

Journal of Management and Science

RESEARCH ARTICLE

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DOI:10.26524.jms.11.32

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OPEN ACCESS

'A study on Challenges faced by Entrepreneurs in the 21st century'

Naga Sulochana[1]

Abstract

An entrepreneur is a person who plays a key role in any economic growth of a country. Mostly an entrepreneur can be regarded as a person who has the initiative, skill and motivation to set up a business or an enterprise of his own and who always looks for high achievement. He acts as promoter of social change and come up with an idea to produce goods and services. He looks for opportunities, identifies them and grabs them mainly for economic improvements. His motive is to earn profit through the production or distribution of socially beneficial goods or services. He is enriched with the inborn qualities of adventurism, willingness to face risks, innovative urge and creativity and is eager to make dynamic changes in the production process, introduce innovations and to find out new uses for raw materials. But now there are so many challenges faced by new entrepreneurs i.e., lack of sustained motivation, lack of patience in solving problems, Inability to dream and use subconscious etc. The main objectives of the study are to identify the challenges faced by the new entrepreneurs and to analyze the measures to overcome them.

Keywords: Entrepreneur, challenges and trends, Innovative skills.

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1.INTRODUCTION

There are two popular beliefs about who the person was who used the term entrepreneur in economics. It is believed that the word "Entrepreneur" was first used by the Irish banker operating in Franco Ricardo Cantillon. Another belief is that the French Economist J. B. Say (1824) was first used the word entrepreneur in economics. It is derived from the French word "Entreprendre" means, "to undertake".[1]

Hisrich defined that, an entrepreneur is characterized as "someone who demonstrates initiative and creative thinking, is able to organize social and economic mechanisms to turn resources and situations to practical account, and accepts risk and failure".[2]

Today, with internet boom, entrepreneurs have become one of the most dynamic forces in the economy. Entrepreneurs are now driving the technology boom, which is itself driving much of the world›s economic growth. An entrepreneur is one who organizes, operates and assumes the risk of a business venture. The intensity of the challenge to promote an entrepreneurship culture as well as to involve in new enterprises in a sustainable and competitive environment. Starting a business and becoming an entrepreneur is stimulating it is also frightening. While starting a new business entrepreneurs face so many challenges; such as instability, stress, negative mindset, lack of support, growing a business, problems of raw material, problems relating to marketing, outdated technology, lack of infrastructural facilities, lack of skilled labors etc. In order to conduct an efficient business an entrepreneur must overcome the challenges. [3]

II.OBJECTIVES

- To study the challenges faced by the entrepreneurs
- To study the ways to overcome the barriers faced by entrepreneurs

III.DATABASE AND METHODOLOGY

The study is based on secondary data. The secondary data was collected from various books and publications related to the topic under study.[4]

IV.REVIEW OF LITERATURE

- Rossi et al., 2020, stated that combination of the capital increase can also be done through venture capital, up to which venture capital is more the maximum result of institutional venture capital or venture capital firm venture.[5]
- Porter & Kramer, 2019, opined that Capital is essential from the start-up stages until the time the organization is mature and controls a bigger percentage of the market. Additionally, they require adequate funds to expand the business, employ more employees and provide them with a good salary according to their job description.
- Eckhardt et al. 2018, Defined People make their pages on social apps and sell their products. Youngsters like creativity and they use new ways to market their

CR3_2021_2022_S1.NO2

Nat. Volatiles & Essent. Oils, 2021; 8(4): 9900-9907

NVEO
Natural Volatiles &
Essential Oils

Internal Communication Importancein Sense Making, Employee Engagement And Organizational Effectiveness

Dr. M. Ananda Rao[1] , Dr. P. Venkateswara Rao[2]

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Abstract

Communication is the basis for any action taking place in the society, communication can be used to persuade or threat and it is widely accepted tool for getting desirable response from the target people. Especially, in an organizational setting where employees are responsible to discharge their duties and responsibilities highly needed to be communicated about rules, regulations work culture and working conditions. Frequently, Employees would expect communication from management about organizational goals, objectives and changing requirements and their role importance to achieve organizational effectiveness. Human resourcesare more effective at work place when they get due respect and personal identity which can be possible with effective communication implementation at work place.It also helps as tool to engage the employeeseffectively atworkplace; henceit can be observed communication as one of the most imperative drivers of employee engagement and also appears that proper internal communication system create sense of belongingnessamong employees. In this context this research paper prepared with an intention to know about threecrucialparts: What does 'employee engagement' mean to the firms and employees? How can employee engagement be managed effectively through the internal communication?What are the potential outcomes of employee engagement for organizations?This theoretical paper under a recentphenomenal settinggoes over the main points of literature under each of the above research questions.With the help of various peer reviewed journals, articles, books, working papers, conference records and blog reports, found that organizational effectivenessis depends on effective employee engagement and employee engagement and internal communication are significantly correlated.

Keywords: Internal communication, employee engagement, sense making and organizational effectiveness

Introduction

Given more and moreunstable and unpredictableeconomic, technological, political, legal and social environments, heightened competition, the firms across the world have recognized that the skilled and loyal employees are the key to have sustainability and success in the long-run. To