



JERUSALEM COLLEGE OF ENGINEERING

AN AUTONOMOUS INSTITUTION

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Velachery Main Road, Narayanapuram, Pallikaranai, Chennai, Tamil Nadu - 600100.

Research Papers and Articles(2022-2023)

S.No.	Department	Name of the Author	Title of the Paper	Title of the Journal/Conference
1	BME	J.Sofia Bobby	QCBO-WSVM : Quantum chaos butterfly optimization-based weighted support vector machine for neuropathic pain detection from EEG signal	International Journal of Imaging Systems and Technology
2	BME	J. Sofia Bobby J. Jane Elona J. H. Bismi M. Dinesh Kumar	An Invention of Smart Glove to Help the Elderly Patients	Advances & Challenges in Science and Technology
3	BME	Dr. J. Sofia Bobby, S. Lavanya, R.Radhika, Dr. VE. Jayanthi,	A Novel Enzymatic Route to Extract Biodiesel from Plant Seeds	European Chemical Bulletin
4	BME	Sofia Bobby J, Raghu B, Priyanka B	A Game-Based Neurorehabilitation Technology to Augment Motor Activity of Hemiparesis Patients	Mobile computing solutions for Healthcare systems
5	BME	K.Sundaramoorthy, R Anitha, K. ArunPrasad	IOT Based Greenhouse Monitoring system	IJFANS
6	BME	R.Anitha, K.Sundaramoorthy, D. Suseela, T.SuganyaThevi, S.Selvi, Mohammed Aljanbi	Naive Bayesian classification Based Glioma Brain Tumor Segmentation using Grey level Co occurrence Matrix method	International Journal on Recent and Innovation Trends in computing and communication
7	BME	B.Bharathi, R.Anitha, Joly.M, K. Sangeetha	Wireless Network based ICU Patient Monitoring system	International conference Power,Energy,Control and Transmission systems
8	BME	Rajasekhar Turaka, S.Ravi Chand, R.Anitha, R.ArunPrasath, S. Ramani, Harish Kumar	A Novel Approach for design energy efficient inexactreversecarry select adders for IOT Applications	Results in Engineering - ELSEVIER
9	BME	K.Sundaramoorthy, R Anitha, Dr. S.Kayalvili,AyatFawzy Ahmed Ghazala,Prof Ts.Dr.Yousef A. Baker El-Ebiary,Sameh Al-Ashmawy	Hybrid Optimization with Recurrent Neural network based Medical image Processing for Predicting Interstitial Lung Disease	International Journal of Advanced Computer Science and Applications
10	BME	Dr.R.Anitha.Professor, Dr.M.S. Jeyalakshmi, Ms.B.Nivetha, Ms.V Femi, Aishwariya L	Intelligent crutch tool for body posture management system to avoid injuries	European Chemical Bulletin
11	BME	R. Kishore Kanna;R. Chandrasekaran; Asraa Ahmed Khafel;Mohammed Brayyich; Kadim A.Jabbar;Haider Al-Chlidi	Study On Diabetic Conditions Monitoring Using Deep Learning Application	IEEE Explore : 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)
12	BME	R. Kishore Kanna; S. Prasath Alias Surendhar; Mazin Riyadh AL-Hameed; Alaa M. Lafta; Raed Khalid; Ahmed Hussain	Smart Prosthetic Arm Using Cognitive Application	IEEE Explore : 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)

13	BME	R. Kishore Kanna; V. Subha Ramya; Asraa Ahmed Khafel; Kadim A. Jabbar; Mustafa Al-Tahee; Raed Khalid	Cognitive Disability Prediction & Analysis using Machine Learning Application	IEEE Explore : 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)
14	BME	R. Kishore Kanna; U. Mutheeswaran; Ahmed Jaber Jouda; Mustafa Asaad Hussein; Ahmed Hussain; Mustafa Al-Tahee	Computational Cognitive Analysis of ADHD Patients using Matlab Applications	IEEE Explore : 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)
15	BME	R. Kishore Kanna; U. Mutheeswaran; Kadim A. Jabbar; Adnan Allwi Ftaiet; Raed Khalid; Haider Al-Chlidi	Clinical Analysis of EEG for Cognitive Activation Using MATLAB Applications	IEEE Explore : 2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)
16	BME	S. Prasath Alias Surendhar, R. Kishore Kanna & R. Indumathi	Ensemble Feature Extraction with Classification Integrated with Mask RCNN Architecture in Breast Cancer Detection Based on Deep Learning Techniques	SN Computer Science
17	BME	R Kishore Kanna, R Gomalavalli, Yamuna Devi, A Ambikapathy	Computational Cognitive Analysis for Intelligent Engineering Using EEG Applications	Intelligent Engineering Applications and Applied Sciences for Sustainability
18	BME	R. Kishore Kanna, K. Yamuna Devi, R. Gomalavalli, A. Ambikapathy	Smart Detection and Removal of Artifacts in Cognitive Signals Using Biomedical Signal Intelligence Applications	IGI Global - Quantum Innovations at the Nexus of Biomedical Intelligence
19	BME	R. Kishore Kanna, Sudharani B. Banappagoudar, Flosy R. Menezes & P. S. Sona	Patient Monitoring System for COVID Care Using Biosensor Application	Springer : Communication, Networks and Computing
20	BME	Habeeb, M., You, H.W. R.K Kanna, Umapathi, M. Hariyadi, Mishra, S.	Strategies of Artificial intelligence tools in the domain of nanomedicine	Journal of Drug Delivery Science and Technology
21	BME	J.Sofia Bobby	Optimized Feature Selection for Brain Cancer Detection	2023 International Conference on Energy, Materials and Communication Engineering (ICEMCE)
22	BME	R. K. Kanna,	Prediction of Covid-19 Using Artificial Intelligence [AI] Applications	Algorithms for Intelligent Systems. Springer, Singapore.
23	BME	R. K. Kanna,	Convolutional Neural Network Application for Detection & Classification of Brain Tumour	10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON),
24	BME	R. K. Kanna,	Machine Learning Based Cardiovascular Detection Approach	11th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON),
25	BME	R. K. Kanna,	Modern 3d Compression Application in Medical Imaging Approach	12th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON),
26	BME	K. Kanna,	Detection of Emotion Employing Deep Learning Modelling Approach	13th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON),
27	BME	R. K. Kanna,	Systematic Cognitive Computing Framework Application Using Medical Information Processing	14th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON),
28	BME	R. K. Kanna, P	Machine Learning Based of Cardiac Attack Prediction Application	2023 International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT), Faridabad, India

29	BME	R. K. Kanna,	Radiological Imaging Techniques Using Dwt Methodology	2023 International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT), Faridabad, India
30	CS & BS	Divya.D, Maya Eapen, Vanitha.R, Jetlin C.P	Cardiomind: AI-Driven Heart Disease Prediction for Better Health Outcomes	Journal of Clinical Otorhinolaryngology, Head and neck Surgery
31	CS & BS	Beulah Jayakumari , S Lilly Sheeba, Maya Eapen, Jani Anbarasi , Vinayakumar Ravi , A. Suganya , Malathy Jawahar	E-voting system using cloud-based hybrid blockchain technology	Journal of Safety Science and Resilience
32	EEE	Y Rekha, V. Jamuna, I. Williams Christopher	Cascaded Inner loop Fuzzy SMC for DC-DC Boost Converter	Journal of Circuits, Systems and Computers
33	EEE	Savitha Venkatesan, Booma Nagarajan, Venmathi Mahendran	Fast response NLC controller for high gain QRC in wind connected DCMG with reduced steady state error	International Journal of Electronics
34	EEE	S. Vinod, et al.	Solar Powered DC Arc Welding Machine – An Initiative Towards Efficient and Sustainable Energy	Journal of Environmental Protection and Ecology
35	IT	D.Sudhagar	Individuality Traits Projection By Tweets via Myers Briggs Type Indicator using Machine Learning	Third International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT'23)
36	IT	D.Sudhagar	Paraphrase Generation Model Paraphraser-on-T5(AI Paraphrasing Tool)	Third International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT'23)
37	IT	D.Sudhagar	Construction of malariadisease prediction system using deep learning	IEEE International Conference on Automation, Computing and Renewable Systems (ICACRS 2022)
38	CSE	Vanitha R , Divya D,MayaEapen, Murugeshwari B	Prediction of plant growth based on smart aquaponics system	Journal of Data Acquisition and Processing
39	CSE	Dr.T.Dhanalakshmi	Provenance Based Trust Boosted Recommender System Using Boosted Vector Similarity Measure	Transaction on Fuzzy Sets and Systems
40	CSE	Divy a D, Vanitha R, Prasanthi T, Nithya D and Shenbagavalli B	MRI Based Brain Tumor Diagnosis using CONvolution Neural Network	European Chemical Bulletin
41	CSE	B. Murugeshwaria, R.Vanitha, MayaEapen, Divya D and Beulah Jayakumari R	Employment Recommendation System for Disabled People	Journal of Data Acquisition and Processing
42	CSE	Beulah Jayakumari R, Maya Eapen, Vanitha R, Bhuvaneshwari G, Murugesan S and Merlin Vensiya V	Dengue Prone Area Prediction System Using Machine Learning	Journal of Data Acquisition and Processing
43	CSE	D.Divya, Logavarshini R, Balasubramaniya, Anisha Singh J	Disease Classification of WBC using Deep Learning	Journal of Data Acquisition and Processing
44	CSE	D.Divya, T.R. GaneshBabu, K. Ananthajothi	Enhancement of Melanoma Skin Cancer Diagnosis by Modified Dragonfly-Based Neural Network	International Journal of Creative Research Thoughts
45	CSE	Dr.R.Vanitha, K.Revanth	Driver Fatigue Detection System Based On Facial Features And Eeg Signals	International Conference on Innovation in Computing & Technology - ICICT'23
46	CSE	Dr. MayaEapen, R. Lakshminarayanan	Music Genre Classification With Deep Learning	International Conference on Innovation in Computing & Technology - ICICT'23
47	CSE	Dr. T.Dhanalakshmi, E. Premkumar	Design Of Multi-Crop Seeding Recommender System - A Real-Time Approach	International Conference on Innovation in Computing & Technology - ICICT'23
48	CSE	Mrs. Mercy H, Fazeer Mohamed.S, Gautham.G.D, Gokul Selvan.S	Digital Signature Verification Using Artificial Neural Network	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022

49	CSE	Mrs.S.Vinitha, Ragavi.S, Rathnaa.S, Sharon Shamitha.S	Infant Vaccination Stock Prediction	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
50	CSE	Mrs. Vanitha Sheba M, Devi Sravanti Gubbala, Divya Sri P, Keerthana N	Prediction Of Soil Contamination Using Machine Learning	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
51	CSE	Dr. Dhanalakshmi T, Safeena Thalath, Sivasankari R, Shanmuga Priya S	Tamilnadu Rainfall Trend Analysis - A Non-Parametric Based Approach	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
52	CSE	Mrs. Sowmiya.K, Esther Janet, Delicia.R	Automatic Door Opening System with Smart Attendance	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
53	CSE	Ms. Pavithra B, Selvamani S, Shivam Kumar M Siva Sai Ram S, Vinoth T	Automatic Vehicle Number Plate Recognition Using Ocr	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
54	CSE	Mrs. Vanitha Sheba M, Viyanney Maria Joseph H, Sivamalani D, Subhiksha I	Design And Implementation of Online Service Provider	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
55	CSE	Mrs. Mercy H, Sudharsan K, Nagaarvind N, Praveenraj S	Chatroom System with Wallet Connector	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
56	CSE	Mrs. Devipriya S , Philomina S , Surya Priya R , Tharani Devi R	Fake And Real Job Prediction Using Machine Learning	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
57	CSE	Mrs. Vinitha S, Bhagyalakshmi S, Arun Kumar S, Kishore Kumar M	Mutual Funds Analysis Based Recommendation	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
58	CSE	Dr. Vanitha R, Prince win D, Sanjay J, Sibi M	Design of Diabetic Diet Plan Recommendation System	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
59	CSE	Mr. Javed N, Suchitra Ramaraj, Varshetha M	Agricultural Crop Health Analysis and Fertilizer Recommendation Using AI, AR And Image Processing	7th International conference on Recent Advances in Science, Engineering and Management ICRASEM 2022
60	ECE	Kanniyappan.N, Amali.C	Jerusalem-Cross Frequency Selective Surface based Resonator for 5G Communication System	ICACST'23 Conference Proceedings ISBN NO:979-8-3503-5454-6 doi: 10.1109/RAEEUCCI61380.2024.10547917.
61	ECE	Sheeja V Francis, Arun Boaz, Dharshini C, Emalda Prethi L, Nithyalakshmi P	Attention Detection System Using Brain Computer Interface	Emerging trends in engineering and technology [ICETET-2023]
62	ECE	Vanitha, Sheeja V Francis	Mammogram Image Classification using Machine Learning	Emerging Technologies in power electronics for green and renewable energy system
63	ECE	S. A. V. Kuppa, S. D. N. S. S. Manikanta, S. K. Gubba, M. O. V. P. Kumar and G. M. Sheeba	Design of Low Power Flash ADC using TIQ Comparator	IEEE conference proceedings on Sustainable Computing and Data Communication Systems (ICSCDS)pp. 894-898," doi: 10.1109/ICSCDS56580.2023.10105049.
64	ECE	Ganesh, G. Merlin Sheeba	The Impact Analysis of the effect of Noise in Natural Color Image Segmentation	Advances in Signal Processing and Communication Engineering (ICASPACE-2023)
65	ECE	Ms.S.Bhavanisankari, Mathew Hyden .A ,Dharani .K, Balasurya . M, Suvetha Bharathi .S	Rfid Attendance Tracker	Recent Trends In Information And Communication Technology

66	ECE	Ms. S.Bhavanisankari, Leena Bharathi. D, Varsha. A, Preethi Mahalakshmi.S, Prithibha. R,	Boat Localization and Border Alert System for Fishermen Safety Using GPS System	Artificial Intelligence ,5G communications and network Technologies
67	ECE	Ms.G.T.Bharathy, Sriniketh S, Kaarthick K, Santhosh Kumar K, Sunil N,	Smart Blind Stick	Recent Trends In Information And Communication Technology
68	ECE	Ms. G.T. Bharathy, Abinaya K, Jeslene Pershia I, Mrithulla S, Vaishnavi C A S	Personal Micro-Mobility System	Recent Trends In Information And Communication Technology
69	ECE	Ms.T.Tamilselvi, Ramya S, Rinthiya V, Saranya D, Swathi B,	Soldier's Health And Position Tracking System	Recent Trends In Information And Communication Technology
70	ECE	T.Tamilselvi, Preetha	An Ultra -Efficient and Robust Auto Nonvolatile Schmitt Trigger based Latch Design using Ferroelectric CNTFET Technology	Emerging Technologies in Power Electronics for Green and renewable energy systems(ICETPRS - 2023)
71	ECE	Lavanya Devi ,Keerthana,Prabhu, Ramesh,Vasupratha	Real-Time Sewage Surveillance And Management System Incorporating Internet Of Things	Artificial Intelligence, 5G Communications and Network Technologies
72	ECE	N Rini Nelson Kanniyappan Nallan N Rino Nelson	Simulation Of Various Geometric Inset Feed Microstrip Patch Millimeter Wave Antenna For 5g Communication	Intelligent Systems and New Applications
73	ECE	K. Mahesh Prasanna, Sheeja V. Francis, Varuna Kumara, A. Sagai Francis Britto, G. Nageswara Rao, Tabassum Ara, P. Ganeshan, Ahmad A. Ifseisi & Sikandar Aftab	Smart Deep Learning Model to Recognize PCM Optimization Performance on Solar Cooling System	Electric Power Components and Systems
74	ECE	Krishna Reddy, G., Merlin Sheeba,	Enhancing PAPR performance in MIMO-OFDM system using hybrid optimal MMSE-MLSE equalizers	Multimedia Tools and Applications
75	ECE	Naresh Kumar,G.Merlin Sheeba	Co-clustering Based Methods and Their Significance for Recommender Systems	Lecture Notes in Computer Science
76	ECE	Krishna Reddy,G.Merlin Sheeba	PTS with Phase Factor-Based Reptile Search Algorithm and Hybrid Coding Approach for PAPR and BER Reduction in MIMO-OFDM	Advances in Intelligent Systems and Computing
77	ECE	Bharath,G.Merlin Sheeba	Internet of Things (IoT) and Data Analytics for Realizing Remote Patient Monitoring	Lecture Notes in Networks and Systems
78	ECE	Lavanya Devi S,R.Vinifa	Assessment of Novel Self- tuned Emotional Learning- Based Intelligent Controller for Bidirectional Cascaded Quasi-Z- Source DC–DC Converter Control	Electric Power Components and Systems
79	ECE	Lavanya Devi,Usha Nandhinee, Sowmya,Akash	AI-Managed irrigation system	International journal of Creative research Thoughts
80	ECE	Dr. Sheeja V Francis, Rupus Daniel J, Sarath K, Surendar N, Sathish Kumar S	IoT Based Bank Locker System using OTP Technology	International Journal of Scientific Research in Science, Engineering and Technology
81	ECE	Vanitha,Sheeja V Francis	Mammogram Image Classification using Machine Learning	International Journal of Scientific Research in Science, Engineering and Technology
82	ECE	Dr. Sheeja V Francis, Arun Boaz D, Dharshini C, Emalda preethi L, Nithyalakshmi P	Attention Level Detection System Based on Brain Computer Interface (BCI)	International Journal of Scientific Research in Science, Engineering and Technology
83	ECE	Dr. Sheeja V Francis, P. Gnanasivam	Brain Computer Interfacing Based Home Automation - An Assistive Technology for People with Motion Disabilities	Cardiometry
84	ECE	Bhavanisankari. S, Vimal William, Sachin. A	Design and Training of AIAgent using Deep Q -Learning and Carla	International Journal of Scientific Research in Science, Engineering and Technology

85	ECE	Bhavanisankari. S,Geetha D,V. Sasirekha,B.Bharathi,S.Nikkath Bushra	Methods of using artificial intelligence to detect the boundaries of Melanoma	Cardiometry
86	ECE	Ms. S.Bhavanisankari, Leena Bharathi. D, Varsha. A, Preethi Mahalakshmi.S, Prithibha. R,	Boat Localization and Border Alert System for Fishermen Safety Using GPS System	International Journal of Scientific Research in Computer Science, Engineering and Information Technology
87	ECE	Ms. G.T. Bharathy, Abinaya K, Jeslene Pershia I, Mrithulla S, Vaishnavi C A S	Mini Hand Gesture Controlled Mobility System	International Journal of Scientific Research in Computer Science, Engineering and Information Technology
88	ECE	Ms.T. Tamilselvi,Naresh Kumar V, Hari Krishnan V	Design of Wireless Communication System by Integrating FPGA with Multicore SDR Development Platform	International Journal of Scientific Research in Science, Engineering and Technology
89	ECE	Ms. T. Tamileselvi, K. Kanagaraj, M. Korkaimaran, M. Surya Rao	FPGA Implementation of Classification Based on SVM For Smart Grid Application	International Journal of Scientific Research in Computer Science, Engineering and Information Technology
90	ECE	R.K.Kaviya T.Tamilselvi	Machine Learning Techniques in Spectrum Sensing	International Journal of Scientific Research in Science, Engineering and Technology
91	ECE	Ms. S Lavanya Devi, N Prabu, S Ramesh, G Keerthana, E Vasupradha	Intelligent Remote Safety Monitoring of Sewage Workers	International Journal of Scientific Research in Science, Engineering and Technology
92	ECE	Ms. K. Raja Saranya, Abishek. Y, Adhvaidh. A, Daniel Remijes. A, Kumaran. S	Augmented Reality Switch for Controlling Home Appliances using IOT	International Journal of Scientific Research in Science, Engineering and Technology
93	ECE	Ms. K. Raja Saranya, Navin Raj M, NithyaNagalakshmi M, Pavithra S, Prabhakaran U	Cataract Surgical Monitoring System with Timely Reminders	International Journal of Scientific Research in Computer Science, Engineering and Information Technology
94	ECE	R. Malathy, Raghul Rao. A Vivek Kumar Yeshwin. K Madhesh. K	Intelligent Trash Computation and Taxation System Using IoT	International Journal of Scientific Research in Science, Engineering and Technology
95	ECE	Padmanayaki Selvarajan, Betty Elezebeth Samuel, Krishnamoorthy Ranganathan, Arvind Kumar Shukla, M Amina Begum and Sundaram Arun	Mobile edge computing for efficient energy management systems	IOP Series in Next Generation Computing- Human-Assisted Intelligent Computing Modeling, simulations and applications