

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING							
July 2023 - June 2024							
Faculty Journal/Conference Publication							
S.No	Title of the paper	Name of the Authors & Affiliation as per the order in paper (Highlight the KPR Authors name)	Name of the Journal /Conference	Volume No, Issue No Page No	Month & Year	Indexing Scopus/ SCI/ SCIE/ WoS etc	Online Link of the paper (by clicking this link, paper should opened in online)
1	Novel ANOVA-Statistic-Reduced Deep Fully Connected Neural Network for the Damage Grade Prediction of Post-Earthquake Buildings	Sri Preethaa K K. , Computer Science And Engineering, Faculty Of Computer Science, Kpr Institute Of Engineering And Technology, Coimbatore, India; Akila Muthuramalingam., Computer Science And Engineering, Faculty Of Computer Science, Kpr Institute Of Engineering And Technology, Coimbatore, India; Yuvaraj Natarajan., Computer Science And Engineering, Faculty Of Computer Science, Kpr Institute Of Engineering And Technology, Coimbatore, India	Sensors	23, 6439	August 2023	SCI	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165984004&doi=10.3390%2fs23146439&partnerID=40&md5=6a2129c9aa04abd357406c262529783a
2	EAD-DNN: Early Alzheimer's disease prediction using deep neural networks	Thangavel, P. , Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, India Natarajan, Y., Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, India Sri Preethaa, K.R., Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, India	Biomedical Signal Processing and Control	86	July 2023	SCI	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165023028&doi=10.1016%2fj.bspc.2023.105215&partnerID=40&md5=36a3de8be5d0a6e547f0ab885870630d
3	An integrated network topology and deep learning model for prediction of Alzheimer disease candidate genes	Naveen Sundar Gnanadesigan Narmadha Dhanasegar Manjula Devi Ramasamy Suresh Muthusamy Om Prava Mishra Ganesh Kumar Pugalendhi Suma Christal Mary Sundararajan Ashokkumar Ravindaran	Soft Computing	27, PP 14189–14203	May 2023	SCI	https://link.springer.com/article/10.1007/s00500-023-08390-8#citeas
4	Computer-aided diagnostic model for retinal vascular diseases using graph-based attention mechanism	G. Sivapriya Department of ECE, Kongu Engineering College, Erode, India R. Manjula Devi Department of CSE, KPR Institute of Engineering and Technology, Coimbatore, India P. Keerthika School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, India	The Journal of Supercomputing	80, 2862–2888	August 2023	SCI	https://link.springer.com/article/10.1007/s11227-023-05581-w#citeas

5	A Comprehensive Review on Machine Learning Techniques for Forecasting Wind Flow Pattern	Sri Preetnaa, K.K. , Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, 641407, India, Department of Robot and Smart System Engineering, Kyungpook National University, 80, Daehak-ro, Buk-gu, Daegu, 41566, South Korea; Muthuramalingam, A. Department of	Sustainability (Switzerland)	15,17	September 2023	SCI	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85170362933&doi=10.3390%2fsu151712914&partnerID=40&md5=3784f0e1359af3caaf33cc944556016a
6	Enhanced machine learning approach with orthogonal frequency division multiplexing to avoid congestion in wireless communication system	Alqahtani A.S., Mubarakali A. Saravanan, M. , Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Tamil Nadu, Coimbatore, 641407, India Changalasetty S.B., Thota L.S., Parthasarathy P., Sivakumar B.	Optical and Quantum Electronics	13,1	August 2023	SCI	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85167458901&doi=10.1007%2fs11082-023-05181-1&partnerID=40&md5=3b911b2f8a5bb2826b85b76ef05c9003
7	Automated diagnostic classification of diabetic retinopathy with microvascular structure of fundus images using deep learning method	Sivapriya, G., Department of ECE, Kongu Engineering College, Erode, India; Manjula Devi, R. , Department of CSE, KPR Institute of Engineering and Technology, Coimbatore, India; Keerthika, P., School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, India; Praveen, V., Department of CSE, Bannari Amman Institute of Technology, Sathyamangalam, India	Biomedical Signal Processing and Control	88	Nov 2023	SCI	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85174696692&doi=10.1016%2fj.bspc.2023.105616&partnerID=40&md5=aa01389589f624e4e793515ef2a0bf3d
8	Intelligent fuzzy edge computing for real-time decision making in IoT-based digital twin environments	Prasath N, SRM University, Chennai Arun A, SRM University, Chennai, Saravanan B, SECE, Coimbatore, Kamaraj K , KPRIET, Coimbatore	Journal of Intelligent & Fuzzy Systems	pp. 1-12	Oct 2023	SCI	https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs233495

9	Convolutional Neural Networks for Automated Diagnosis of Diabetic Retinopathy in Fundus Images	<p>S. Rama Krishna Department of Computer Science & Engineering, GSoT, GITAM (Deemed-to-be-University), Hyderabad, India</p> <p>Naresh Cherukuri Department of Computer Science and Engineering, Prasad V. Potluri Siddhartha Institute of Technology (Autonomous), Vijayawada, India</p> <p>Y. Dileep Kumar Department of Electronics & Communication Engineering, School of Engineering, Mohan Babu University, Tirupati, Andhra Pradesh, India</p> <p>R. Jayakarthish Department of Computer Science, Saveetha College of Liberal Arts and Sciences SIMATS, India</p> <p>B. Nagarajan Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Allam Balaram Department of Computer Science and Engineering, MLR Institute of Technology, Hyderabad, India https://orcid.org/0000-0002-2312-2700</p> <p>G. Divya Jyothi Department of Computer Science and Engineering, MLR Institute of Technology, Dundigal, Medchal, Telangana,</p>	Cognitive-Inspired Computational Computing for Intelligent Health Informatics	Vol. 3 No. 4	Oct 2023	SCI	https://ojs.istp-press.com/jait/article/view/264
10	Real-time assessment of surface cracks in concrete structures using integrated deep neural networks with autonomous unmanned aerial vehicle	<p>Bubryur Kim Department of Robot and Smart System Engineering, Kyungpook National University, 80 Daehak-ro, Buk-gu, Daegu, 41566, South Korea</p> <p>Yuvaraj Natarajan Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>K.R. Sri Preetha Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Sujeen Sang Department of Civil Engineering, College of Engineering and Computer Science, The University of Texas Rio Grande Valley, Edinburg, TX, 78539, USA</p> <p>Sanjeev Mohan Department of Artificial Intelligence with Machine Learning, Queen Mary University of London, United Kingdom</p>	Engineering Applications of Artificial Intelligence	Vol 129	March 2024	SCI	https://www.sciencedirect.com/science/article/abs/pii/S0952197623017219?via%3Dihub

11	Mechanical properties and failure analysis of PLA/Copper composites fabricated by Fused Deposition Modelling	R.V. Kumar ,Dr.N.G.P. Institute of Technology, Coimbatore, Tamil Nadu, India K.R. Kumar, KPR Institute of Engineering and Technology Coimbatore, Tamil Nadu, India Nisha Soms , KPR Institute of Engineering and Technology Coimbatore, Tamil Nadu, India	Journal of Mining and Metallurgy, Section B: Metallurgy	2024 OnLine-First (00):3-3	February 2024	SCIE	https://doiserbia.nb.rs/Article.aspx?id=1450-53392400003K
12	Haar cascade-based deep learning model to predict in/out bound passenger flow and distance estimation for intelligent transport system	Vishnu Kumar Kaliappan , KS Gautam, M Akila, K Mohanasundaram	Int. J. Heavy Vehicle Systems	31,2	March 2024	SCIE	https://www.inderscienceonline.com/doi/abs/10.1504/IJHVS.2024.137251?journalCode=ijhvs
13	Efficient IoT -Machine Learning Based Smart Irrigation Using Support Tree Algae Algorithm	P. Suresh , R. H. Aswathy, Veena Divya Krishnappa & P. M. Rajasree	IETE Journal of Research	1-16	March 2024	SCIE	https://doi.org/10.1080/03772063.2024.2319707
14	Authorization of Aadhar Data Using Diffie Helman Key with Enhanced Security Concerns	Karthika K, AP, Sairam Engineering College, Devi Priya R, Prof/KPRIET	Journal of Intelligent & Fuzzy Systems	Online First	February 2024	SCIE	https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs234641
15	Modelling a naive bais based multi variate content grading system for analysing YouTube tamil post	Dr.G.Srivatsun, ASP, ECE, PSGCT, S.Thivaharan, AP, KPRIET	Journal of intelligent and fuzzy dystems	45, 6	December 2023	SCI	https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs222504
16	Automatic multiclass classification of laryngeal cancer using deep convolution neural networks	Ramesh Munirathinam, M Tamilnidhi, Rajasekaran Thangaraj , Sivaraman Eswaran, Gokul Chandrasekaran, Neelam Sanjeev Kumar	Electronics Letters	60	January 2024	SCI	https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/ell2.13070
17	A deep convolution neural network model based on feature concatenation approach for classification of tomato leaf disease	Rajasekaran Thangaraj , P Pandiyan, S Anandamurugan, Sivaramakrishnan Rajendar	Multimedia Tools and Applications	1-25	August 2023	SCI	https://link.springer.com/article/10.1007/s11042-023-16347-0
18	A novel Adaptive Neural Network-Based Laplacian of Gaussian (AnLoG) classification algorithm for detecting diabetic retinopathy with colour retinal fundus images	Manjula Devi Ramasamy , Keerthika Periasamy, Suresh Periasamy, Suresh Muthusamy, Ponarun Ramamoorthi, Gunasekaran Thangavel, Sreejith Sekaran, Kishor Kumar Sadasivuni & Mithra Geetha	Neural Computing and Applications	Volume 36, pages 3513-3524	March 2024	SCIE	https://doi.org/10.1007/s00521-023-09324-z
19	Augmented weighted K-means grey wolf optimizer: An enhanced metaheuristic algorithm for data clustering problems	Manoharan Premkumar, Garima Sinha, Manjula Devi Ramasamy , Santhoshini Sahu, Chithirala Bala Subramanyam, Ravichandran Sowmya, Laith Abualigah & Bizuwork Derebew	Scientific Reports	14, 5434	March 2024	SCIE	https://doi.org/10.1038/s41598-024-55619-z
20	Image processing-based protection of privacy data in cloud using NTRU algorithm	Karthika K, AP, Sairam Engineering College, Devi Priya R, Prof/KPRIET	Signal, Image and Video Processing	Vol.18, No.2,4003-4018	April 2024	SCI	https://doi.org/10.1007/s11760-024-03008-4
21	An Optimized Routing Scheme in SDN-Based IoT Using the Lion Optimization Algorithm	Jayaprakash, M.,AP, RMK Engineering College & Devi Priya R, Prof/KPRIET	IETE Journal of Research	Online First	Feb 2024	SCI	https://doi.org/10.1080/03772063.2024.2305846

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Scopus Publication

S.No	Title of the paper	Name of the Authors & Affiliation as per the order in paper (Highlight the KPR Authors name)	Name of the Journal /Conference	Volume No, Issue No Page No	Month & Year	Indexing Scopus/ SCI/ SCIE/ WoS etc	Online Link of the paper (by clicking this link, paper should opened in online)
1	Security Algorithm for Intelligent Transport System in Cyber-Physical Systems Perceptive: Attacks, Vulnerabilities, and Countermeasures	R. Pavithra, Dr.N.G.P Institute of Engineering and Technology Vishnu kumar Kaliappan , Sivaramakrishnan Rajendar Department pf CSE KPR Institute of Engineering nad Technology	SN Computer Science	4, 5, 1-12	1 July 2023	Scopus	https://link.springer.com/article/10.1007/s42979-023-01897-9
2	Lightweight trust value based Blockchain model for environmental monitoring and reputation in Manet Routing	Logaprakash M, Sree Ramkrishna College of Engineering, Coimbatore S Manoj Kumar , Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India	Journal of Environmental Protection and Ecology	24(5)	September 2023	Scopus	https://scibulcom.net/en/article/UBomXv8IicuKsi09akBp
3	Improving Performance of Intrusion Detection Using ALO Selected Features and GRU Network	Karthic S , AP/CSE, KPR Institute of Engineering and Technology Suhana. S Yuvaraj. N Department of CSE, KPRIET, Sumathi. T Department of IT, Dr MCET	SN computer science	Volume No 4	September 2023	Scopus	https://link.springer.com/article/10.1007/s42979-023-02311-0
4	Cluster-Factors of Mobile Sensor Network Technology for Security Enhanced PEGASIS	T. K. Sivakumar, Department of Computing Technologies, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur S.V. Manikanthan, Vishnu Kumar Kaliappan , K. Baskaran, Kakarla Hari Kishore	International Journal of Interactive Mobile Technologies (iJIM),	17,18	September 2023	Scopus	https://online-journals.org/index.php/i-jim/article/view/42915
5	A review of plant disease detection and classification methods	Mohan M Computer Science and Engineering, KPR Institute of Engineering and Technology Akila M. Department of Information Technology, K .S .R College of Technology Prasath B Computer Science and Engineering, KPR Institute of Engineering and Technology	International Journal of Modelling and Simulation	pp:1.17	Oct 2023	Scopus	https://doi.org/10.1080/02286203.2023.2254192

6	ASI (Agriculture Smart Irrigation) Multiparameter Optimization System for Precision Agriculture	Dr.P.Suresh,Associate Professor,K	International Journal of Intelligent systems and applications in Engineering	VOL. 12 NO. 8S	Dec 2023	Scopus	https://www.ijisae.org/index.php/IJISAE/article/view/4124
7	MIAS: An IoT based Multiphase Identity Authentication Server for Enabling Secure Communication	Aswathy RH Srithar S Associate pr	Journal of Internet services and Information security	13(4):114-126	Dec 2023	Scopus	https://www.researchgate.net/publication/376181340_MIAS_An_IoT_based_Multiphase_Identity_Authentication_Server_for_Enabling_Secure_Communication
8	Feature Selection Graph Neural Network for Optimized Node Categorization	K. R. Sri Preethaa,	IEEE Transactions on Consumer Electronics				https://ieeexplore.ieee.org/abstract/document/10368031
9	EduVigil: Shaping the Future of Education with AI - An Intriguing Case Study	Abhinaya Saravanan;	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)				https://ieeexplore.ieee.org/document/10307866
10	Twitter Disaster Prediction Using Different Deep Learning Models	Premkumar Duraisamy Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India Yuvaraj Natarajan Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India	SN Computer Science	Volume 5, article number 179, (2024),	Jan 2024	Scopus	https://link.springer.com/article/10.1007/s42979-023-02520-7
11	Fuzzy mutual Information based hybrid classification algorithm for enhanced heart attack prediction	Rajeshkumar S, Pandiyarajan g, Siva, ShyamSundar, Saravanakumar, Sasidharan	IEE Explore / ICSTEM 24	2024 , 1-7	June 25 2024	Scopus	https://doi.org/10.1109/ICSTEM61137.2024.10560729
12	Early Detection of Learning Abnormalities in Higher Education Students: A Hybrid Decision-Making Approach	Rajeshkumar S, Pandiyarajan g, Darshan N , Vidhya V, Deepak r, Kishore M	IEE Explore / ICSTEM 24	2024 , 1-6	June 25 2024	Scopus	https://doi.org/10.1109/ICSTEM61137.2024.10561222
13	A Novel Hybrid Feature Selection with Cascaded LSTM: Enhancing Security in IoT Networks	Karthic Sundaram , Assistant Professor, CSE, KPRIET Yuvaraj Natarajan , Professor CSE, KPRIET ,Anitha Perumalsamy, Assistant Professor, CSE, CIT and Ahmed Abdi Yusuf Ali Department of Electrical Engineering, University of Johannesburg, Johannesburg 2092, South Africa	Wireless Communications and Mobile Computing	2024, 1-15	March 2024	Scopus	https://www.hindawi.com/journals/wcmc/2024/5522431/
14	Artificial Intelligence Enabled Network Intrusion Detection Model (AI-NIDM) for Smart Grid Cyber-Physical Systems	P Dhanasekaran, V Sakthivel, N Jayashri, MS Hemawathi, Vishnu Kumar Kaliappan	International Journal of Intelligent Systems and Applications in Engineering	Volume 12, No.2s	Oct 2023	Scopus	https://www.ijisae.org/index.php/IJISAE/article/view/3639
15	A deep convolution neural network for automated COVID-19 disease detection using chest X-ray images	Rajasekaran Thangaraj , P Pandiyan, Jayabrabu Ramakrishnan, R Nallakumar, Sivaraman Eswaran	Healthcare Analytics	Volume 4, 100278	Dec 2023	Scopus	https://www.sciencedirect.com/science/article/pii/S2772442523001454

S.No	Title of the paper	First Author & Affiliation	Name of the Conference & Organizer	Publication Date	Online Link of the paper (by clicking this link, paper should opened in online)
1	Ostu's Thresholding For Lung Nodule Classification	C. Sasikala , AP/CSE, KPR Institute of Engineering and Technology Ms.Poovizhi Kc, Halleyx, Coimbatore. Ragavi R. BSH Household Appliances Manufacturing Pvt.Ltd, Coimbatore	2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE)	January 2023	https://ieeexplore.ieee.org/abstract/document/10369793
2	Predicting new superconductors and their perilous temperatures using computational intelligence	C. Sasikala, AP/CSE, KPR Institute of Engineering and Technology S. Prabakaran, Department of Computer Science and Engineering, Sasurie College of Engineering S. D. Prabu Ragavendiran, Department of CSE, RVS Technical Campus, Coimbatore V. Gomathi, Department of Information Technology, Velalar College of Engineering and Technology, Erode G. Revathy, School of Computing, SASTRA Deemed to be University, Thanjavur, India	AIP Conference Proceedings	June 2023	https://pubs.aip.org/aip/acp/article-abstract/2782/1/020039/2896586/Predicting-new-superconductors-and-their-perilous?redirectedFrom=fulltext
3	Training Superbot with learning automataand multikernal SVM	G. Revathy, School of Computing, SASTRA Deemed to be University, Thanjavur, India E. Gurumoorathi, Department of IT, CMR College of Engineering and Technology, Hyderabad C. Sasikala , Depratment of CSE, KPR Institute of Engineering and Technology T. M. Latha, Department of Artificial Intelligence and Data Science, M.A.M College of Engineering, Trichy	AIP Conference Proceedings	June 2023	https://pubs.aip.org/aip/acp/article-abstract/2782/1/020034/2896581/Training-superbot-with-learning-automata-and-multi?redirectedFrom=PDF
4	Text Sentiment Analysis of Film Reviews Using Bi-LSTM and GRU	Mouthami K , Department of Computer Science and Engineering, Coimbatore N. Yuvaraj Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, Coimbatore, India K.K. Thilahaswaran Dept. of Artificial Intelligence and Data Science, KPR Institute of Engineering and Technology, Coimbatore, India K.J. Lokeshvar	2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC)	July 2023	https://ieeexplore.ieee.org/document/10193121

5	Earthquake Damage Prediction and Rapid Assessment of Building Damage Using Deep Learning.,	<p>Yuvaraj Natarajan Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Gitanjali Wadhwa, Preethi Akshaya Ranganathan, Karthika Natarajan, Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p>	2023 International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS), Bangalore, India,	July 2023	https://ieeexplore.ieee.org/abstract/document/10169947
6	Improved Recommender System for Kid's Hobby Prediction using different Machine Learning Techniques	<p>Premkumar Duraisamy Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>K Parvathy Department of Computer Science and Engineering, Dr NGP Institute of Technology, Coimbatore</p> <p>V. Niranjani Department of Computer Science and Engineering, Sri Eshwar College of Engineering, Coimbatore</p> <p>Yuvaraj Natarajan Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore</p>	2023 Fifth International Conference on Electrical, Computer and Communication Technologies (ICECCT)	July 2023	https://ieeexplore.ieee.org/document/10179757
7	Optimization Techniques for Preserving Privacy in Data Mining	<p>K.Renuka Devi K.Balasamy, M.Prathyusha</p> <p>R.Jeevitha CSE department KPRIET</p>	2023 Fifth International Conference on Electrical, Computer and communication Technologies	July 2023	https://ieeexplore.ieee.org/abstract/document/10179655

8	An Efficient way of Emotion and Gesture Recognition using Deep Learning Algorithms	<p>Premkumar Duraisamy Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Yuvaraj Natarajan Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Periyanyaki M Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India"</p>	2023 Fifth International Conference on Electrical, Computer and Communication Technologies (ICECCT)	Jul 2023	https://ieeexplore.ieee.org/document/10179652
9	A Review on Lightweight Cryptographic algorithms in Internet of Things	<p>Parvathy. K Sri Eshwar College of Engineering, Tamilnadu, India</p> <p>Nataraj. B Sri Ramakrishna Engineering College, Tamilnadu, India</p> <p>S. Rajalakshmi Sri Eshwar College of Engineering, Tamilnadu, India</p>	2023 5th International Conference on Inventive Research in Computing Applications (ICIRCA)	August 2023	https://ieeexplore.ieee.org/document/10220904
10	Mobility-Based Optimized Multipath Routing Protocol on Optimal Link State Routing in MANET	<p>K Lavanya Dept of ECE, Velammal Engineering College, Chennai, India</p> <p>R Indira ECE Department, Panimalar Engineering College</p> <p>A K Velmurugan Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Guntur, Andhra Pradesh, India</p> <p>M. Janani Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p>	2023 International Conference on Applied Intelligence and Sustainable Computing (ICAISC)	August 2023	https://ieeexplore.ieee.org/document/10199484

11	Deep Learning based Sentiment Analysis on Images	<p>Nimitha N Electronics and Communication Engineering, RMK College of Engineering and Technology, Chennai</p> <p>Saroj Bala Department of MCA, Ajay Kumar Garg Engineering College, Ghaziabad</p> <p>V Satheeswaran Department of ECE, Nehru Institute of Technology, Coimbatore</p> <p>M Janani Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore</p> <p>S Selvanayagi Department of AI & DS, Saveetha Engineering College, Chennai</p>	2023 2nd International Conference on Edge Computing and Applications (ICECAA)	August 2023	https://ieeexplore.ieee.org/abstract/document/10212171
12	Optimization based Collision avoidance underwater Wireless sensor network	<p>S.Suguraman ECE Department, Vishnu Institute of Technology, Bhimavaram, India</p> <p>B.Bhuvamneswari, K S Senthil Kumar</p> <p>R Jeevitha A S Ramachandra</p>	2023 International Conference on Applied Intelligence and Sustainable Computing (ICAISC)	August 2023	https://ieeexplore.ieee.org/document/10199734
13	Malware Detection Using the Machine Learning Based Modified Partial Swarm Optimization Approach	<p>S. Sivakumar Department of Computer science, Thanthai Hans Roever College (Autonomous), Perambalur, India</p> <p>S. Saminathan Department of Computer Science and IT, Srinivasan College of Arts and Science, Perambalur, India</p> <p>R. Ranjana ECE Department, Panimalar Engineering College</p> <p>M. Mohan AP/CSE KPR Institute of Engineering and Technology</p> <p>Piyush Kumar Pareek Department of AI and ML, Nitte Meenakshi Institute of Technology, Bengaluru, India</p>	2023 International Conference on Applied Intelligence and Sustainable Computing (ICAISC)	August 2023	https://ieeexplore.ieee.org/document/10199796

14	Alzheimer disease classification based on multimodel deep convolutional neural network using MRI images	<p>Yuvaraj Natarajan Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, Coimbatore, India Preethi Thangavel Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, Coimbatore, India A.C.Sumathi Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, Coimbatore, India"</p>	AIP Conf. Proc. 2764, 060008 (2023).	Sep 2023	https://doi.org/10.1063/5.0144082
15	A Deep Learning Framework for Prediction of Heart Diseases from Clinical Observations	<p>Daze Thomas, Artificial Intelligence & Data Science, SNS College of Engineering, Coimbatore, India Mohan M Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India V. Narasimharaj Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, India Yamuna S Department of Information Technology, Bannari Amman Institute of Technology, Erode, India</p>	2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS)	September 2023	https://ieeexplore.ieee.org/document/10250712
16	EduVigil: Shaping the Future of Education with AI - An Intriguing Case Study	Abhinaya Saravanan; S. David Samuel Azariya; Nisha Soms ; Archana Shyam	2023 14th International Conference on Computing Communication and Networking Technologies	Nov 2023	https://ieeexplore.ieee.org/document/10307866
17	An Organized Examination of Image Processing for Detection and Diagnosis of Plant Diseases	Mr. Naveenkumar M/ CSE, KPRIET , Dr. M. Akila/Professor, CSE, KPRIET	2023 7th International Conference on Intelligent Computing and Control Systems (ICICCS)	Nov 2023	https://ieeexplore.ieee.org/abstract/document/10142319
18	An Automated Multi-Level Convolutional Neural Network Approach for Classification of White Blood Cells	M. Sangeetha; Tamizarasu K; R. Manjula Devi ; Rex Macedo Arokiaraj; K. Sudha; K. Kavın Kumar	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)	Nov 2023	10.1109/ICCCNT56998.2023.10307001

19	Stroke prediction using ML and IOT based wearable device	G.Kanagaraj Assistant Professor/CSE Kumaraguru College of Technology Coimbatore T.Primya AP/CSE KPR Institute of Engineering and Technology Coimbatore M.Prabavthy AP/AI & DS CIT, Coimbatore P.Saranya AP/ECE Dr N.G.P Institute of TechnologyCoimbatore V.Senthil Kumar Assistant Professor/CSE Kumaraguru College of Technology Coimbatore AP/CSE KPR Institute of Engineering and Technology Coimbatore M.Prabavthy AP/AI & DS CIT, Coimbatore P.Saranya AP/ECE Dr N.G.P Institute of TechnologyCoimbatore	AIP Conference Proceedings	Dec 2023	https://pubs.aip.org/aip/acp/article/2914/1/050021/2929672/Stroke-prediction-using-ML-and-IOT-based-wearable
20	Feature Selection Graph Neural Network for Optimized Node Categorization	K. R. Sri Preethaa ; Gitanjali Wadhwa; Yuvaraj Natarajan; Anand Paul	IEEE Transactions on Consumer Electronics	Dec 2023	https://ieeexplore.ieee.org/abstract/document/10368031
21	Faecture selection graph neural network for optimized node categorization	K. R. Sri Preethaa; Gitanjali Wadhwa; Yuvaraj Natarajan; Anand Paul	IEEE Transactions on Consumer Electronics	Dec 2023	https://ieeexplore.ieee.org/abstract/document/10368031
22	Blockchain Enabled Real Estate Property Transaction Usning NFT : An Approach	Vivek Rabinson , Dept CSE, KARE, Krisnan koil Barath Singh , Dept CSE, KARE, Krisnan koil Rajeshkumar S , Dept CSE, KPRIET, Coimbatore	International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence/IEEE Proceedings	Jan 2024	https://doi.org/10.1109/RMKMATE59243.2023.10369785
23	Stock Market Prediction Analysis using Machine Learning techniques	1. Saranya,Department of IT, Dr.Mahalingam College of engineering and technology, Pollachi, Tamilnadu, India. 2. Mahendhiran P D Department of CSBS, Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India. 3.Sri Sathya K B , Department of CSE, KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, India.	First International Conference on EMMA, Panipat Institute of Engineering and Technology	February 2024	https://pubs.aip.org/aip/acp/article/2742/1/020025/3263596/Stock-market-prediction-analysis-using-machine?searchresult=1

24	Unlocking the Potential: A Review of Digital Twins and Integration with Emerging Technologies	Dinesh Babu. V Department of Information Technology, Karpagam Institute of Technology, Coimbatore, India. Geetha S K Department of Computer Science and Engineering, KPR Institute of Engineering and Technology (Autonomous), Coimbatore, India	International Conference on Emerging Research in Computational Science (ICERCS)	February 2024	Unlocking the Potential: A Review of Digital Twins and Integration with Emerging Technologies IEEE Conference Publication IEEE Xplore
25	A Novel Energy Efficient Sensor Data Encryption in Fog Based IoT Networks	M Manicaraja, Dept. of CSE, SKCET, Coimbatore S Manoj Kumar , Professor, Dept. of CSE, KPRIET, Coimbatore B Kiruba, Dept of AD, SKCET, Coimbatore	2023 International Conference on Next Generation Electronics (NEleX)	February 2024	https://doi.org/10.1109/NEleX59773.2023.10421411
26	Smart Healthcare Monitoring System: Integrating IoT, Deep Learning, and XGBoost for Real-time Patient Diagnosis	Kruthika Paulraj Department of Information Technology, Sona College of Technology, Salem, Tamil Nadu, India Nisha Soms Department of Computer Science, KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India S. David Samuel Azariya Department of Information Technology, Sona College of Technology, Salem, Tamil Nadu, India Sathya Priya S Department of Artificial Intelligence and Data Science, M. Kumarasamy College of Engineering, Karur, Tamil Nadu, India Jeba Emilyn J Department of Information Technology, Sona College of Technology, Salem, Tamil Nadu, India Vidhushavarshini Sureshkumar Department of Computer Science Engineering, SRMIST, Chennai, Tamil Nadu, India	2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE)	February 2024	https://ieeexplore.ieee.org/document/10431108

27	Intelligent Irrigation Management: An IoT-Driven Approach with Real-Time Data Integration	<p>P. Kanaga Priya KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>R.K. Suguna Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>S. Sujitha Department of Computer Science and Engineering, Kongu Engineering College, Erode, India</p> <p>G. Devi Department of Computer Science and Engineering, SNS College of Technology, Coimbatore, India</p>	2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSSES)	March 2024	https://ieeexplore.ieee.org/document/10465371	
28	Intelligent Irrigation Management: An IoT-Driven Approach with Real-Time Data Integration	<p>P. Kanaga Priya KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Prasanna Blessy M Department of Computer Science and Engineering, RVS Technical Campus, Coimbatore, India</p> <p>R.K. Suguna Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>C. Narmada Department of Computer Science and Engineering, SNS College of Technology, Coimbatore, India</p>	2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSSES)	March 2024	https://ieeexplore.ieee.org/document/10465487	
29	Advancing Sustainable IoT Appliance Load Monitoring Through Edge-Enabled Federated Transfer Learning	<p>Yuvaraj N, Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Gitanjali Wadhwa ScaDS.AI Dresden/Leipzig (ZIH), Technische Universitat Dresden (TUD), Dresden, Germany,</p> <p>Sri Preethaa K R Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Karthic Sundaram Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India</p> <p>Rama Abirami K Department of Electrical and Computer Engineering, Faculty of Engineering and Science, Curtin University, Malaysia</p>	2024 International Conference on Green Energy, Computing and Sustainable Technology (GECOST), Curtin university Malaysia	March 2024	https://ieeexplore.ieee.org/document/10474899	

30	The Smart Measurement of Quality of Service (QoS) for Cloud Computing Platforms	Deepti Sloan School of Management, Sloan Fellow Candidate 2023, University - MIT Alok Katkar Management College: Tilak Maharashtra Vidyapeeth, Vidyapeeth Bhavan, Gultekdi, Pune Mohamed Dawood Shamout Department of Management, College of Business Administration, University of Sharjah, Sharjah, United Arab Emirates T. Primya Computer Science and Engineering, KPR Institute of Engineering and Technology	International Conference on Power Energy, Environment and Intelligent Control (PEEIC)	March 2024	https://ieeexplore.ieee.org/abstract/document/10450415/ authors
31	Blockchain Enabled Real Estate Property Transactions using NFT: An Approach	Vivek Rabinson , Dept CSE, KARE, Krisnan koil Barath Singh , Dept CSE, KARE, Krisnan koil Rajeshkumar S , Dept CSE, KPRIET, Coimbatore	International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence/IEEE Proceedings	March 2024	https://doi.org/10.1109/RMKMATE59243.2023.103697 85
32	Fuzzy mutual Information based hybrid classification algorithm for enhanced heart attack prediction	Rajeshkumar S, Pandiyarajan g, Siva, ShyamSundar, Saravanakumar, Sasidharan	International Conference of Science Technology Engineering and Management (ICSTEM)	Apr 2024	https://doi.org/10.1109/ICSTEM61137.2024.10560729
33	Early Detection of Learning Abnormalities in Higher Education Students: A Hybrid Decision-Making Approach	Rajeshkumar S, Pandiyarajan g, Darshan N , Vidhya V, Deepak r, Kishore M	International Conference of Science Technology Engineering and Management (ICSTEM)	Apr 2024	https://doi.org/10.1109/ICSTEM61137.2024.10561222
34	Crowd Estimation Using Sensors for Public Transport (BUSES)	S. Sumathi-AIDS,Sri Eshwar College of Engineering, Coimbatore, Nisha Soms -Dept. of CSE, KPRIET, Coimbatore, S.Gowtham, M.Pagalavan, S.Hariharan-AIDS,Sri Eshwar College of Engineering, Coimbatore	2023 International Conference on New Frontiers in Communication, Automation, Management and Security (ICCAMS)	May 2024	10.1109/ICCAMS60113.2023.10525859
35	Adaptive Learning-Based IoT Security Framework Using Recurrent Neural Networks	Lydia D. Isaac-IT Dept.,SCT, Salem, V. Mohanraj-IT Dept.,SCT,Salem, Nisha Soms - Dept. of CSE, KPRIET, Coimbatore , R. Jaya-Data Science Faculty- GreatLearning, and S. Sathiya Priya-IT Dept.,SCT,Salem	8th International Conference on Micro-Electronics, Electromagnetics and Telecommunications	May 2024	https://doi.org/10.1007/978-981-97-0767-6_9
36	Trespasser Detection and Tracking System for the Borders	M Logaprakash, Dept. of IT, SREC, Coimbatore Archana, Dept of IT, SREC, Coimbatore S Manoj Kumar , Professor, Dept. of CSE, KPRIET, Coimbatore	2023 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA)	September 2024	https://doi.org/10.1109/ICECA58529.2023.10395697

S.No	Title of the paper	First Author & Affiliation	Remaining Authors & Affiliation as per the order in papers	Name of the Journal /Conference	Volume No, Issue No Page No Month & Year	Indexing Scopus/ SCI/ SCIE/ WoS etc	Online Link of the paper (by clicking this link, paper should opened in online)
1	An Efficient way of Emotion and Gesture Recognition using Deep Learning Algorithms	Periyanyaki M Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore	M Duraisamy Department of Computer Science, Government Arts and Science College, Tirupattur Premkumar Duraisamy Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore	2023 Fifth International Conference on Electrical, Computer and Communication Technologies (ICECCT)	July 2023	Scopus	https://ieeexplore.ieee.org/document/10179652
2	User Interface of Blockchain-Based Agri-Food Traceability Applications	Kiruthika J K Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore	Kiruthika, J.K.Yawanikha, T.Kanr	ICSPC 2023 - 4th International Conference on Signal Processing and Communication,	pp. 258–261,July 2023	Scopus	https://ieeexplore.ieee.org/document/10125777/authors#authors
3	Human Stress Detection on Twitter: A Hybrid Approach using LSTM and Natural Language Processing	Sivaramakrishnan Rajendar, AP/ CSE/KPRIET	Sanjay Ranganathan Thavamuthubaskaran Lakshmanan Vasanth Nachimuthu Sriram Paramasivam (All KPRIET)	IEEE Xplore (2023 8th International Conference on Communication and Electronics Systems (ICCES))	August 2023	Scopus	https://ieeexplore.ieee.org/document/10192829
4	REFLECT: An GPT Based Android Application for Diary Writing and Emotional Support	Vishnu Kumar Kaliappan & Professor CSE	Srikumaran R, Vijay M KPR Institute of Engineering and Technology	Journal of Instrumentation and Automation System	July 2023	Scopus	http://ojs.unsysdigital.com/index.php/jias/article/view/1143
5	A Perlustration on the optimistic prognosis of chronic renal failure using Evolutionary Machine Learning and Deep Learning techniques	B Vishnupriya Department of Computer Science and Engineering K P R Institute of Engineering & Technology Coimbatore	R Abitha, A S Harshithaa, M Agalya, M Gugapriya Department of Computer Science and Engineering K P R Institute of Engineering & Technology Coimbatore	2023 International Conference on Computer Communication and Informatics (ICCCI)	24 May 2023	Scopus	https://ieeexplore.ieee.org/document/10128198
6	Analysis of employee attrition in Azure Machine Learning	Kiruthika J K Department of Computer Science and Engineering K P R Institute of Engineering & Technology Coimbatore	J. K. Kiruthika; G. Gopika; K. Aswin; C. Adarsh;Department of Computer Science and Engineering K P R Institute of Engineering & Technology Coimbatore T. Yawanikha	ADVANCED TECHNOLOGIES IN CHEMICAL, CONSTRUCTION AND MECHANICAL SCIENCES: ICATCHCOME 2022	13 September 2023	Scopus	https://doi.org/10.1063/5.0144642

7	Exploratory Data Analysis of Walmart Outlets Sales using Data Analytics Techniques	Meaga Varsha Ramasami Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India	Rajasekaran Mangaraj, Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India S Manoj Kumar, Department of Computer Science and Engineering, KPR Institute of Engineering and Technology, Coimbatore, India Sivaraman Eswaran, Department of Electrical and Computer Engineering, Curtin	2023 International Conference on Digital Applications, Transformation & Economy (ICDATE)	15 September 2023	Scopus	10.1109/ICDATE58146.2023.10248586
8	Application of machine learning algorithm in identifying credit card cheating	Kamaraj, K, KPRIET	Harish K, KPRIET	AIP Conference Proceedings	13 September 2023	Scopus	https://doi.org/10.1063/5.0144225
9	Data Driven Probabilistic Detection of Fake News using Advanced Machine Learning Algorithms	Kamaraj, K, KPRIET	Giri R, S. Dhanush; S. Gokul	AIP Conference Proceedings	14 September 2023	Scopus	https://doi.org/10.1063/5.0145304
10	Drowsiness detection using CNN model	D. Dinesh, PG Scholar, KPRIET	S Manoj kumar, Department of Computer Science and Engg, KPRIET	AIP Conference Proceedings	13 September 2023	Scopus	https://doi.org/10.1063/5.0144096
11	Enhanced Skin Cancer Prediction with Analysis Using Machine Learning Algorithms	Premkumar Duraisamy Department of Computer Science and Engineering, KPR Institute of Engineering and Technology	Dhivakar J Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. Adhish Sylwesdhan Prabhu F Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. Ajeshbose J S Department of Computer Science and Engineering, KPR Institute of Engineering and Technology.	2023 International Conference on Sustainable Communication Networks and Application (ICSCNA)	01 January 2024	Scopus	https://ieeexplore.ieee.org/document/10368604/
12	Transforming Sign Language into Text and Speech through Deep Learning Technologies	Premkumar Duraisamy Department of Computer Science and Engineering, KPR Institute of Engineering and Technology	A Abinayasrijanani Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. M Amrit Candida Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. P Dinesh Babu Department of Computer Science and Engineering, KPR Institute of Engineering and Technology.	INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY	16,45, 4177-4185,05 December 2023	WoS	10.17485/IJST/v16i45.2583

13	Advanced Machine Learning Techniques for Predicting Health Status in Smoke-Exposed Environments	Premkumar Duraisamy Department of Computer Science and Engineering, KPR Institute of Engineering and Technology	B Nitheshvaran Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. S Nalin Kumar Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. B Irshad Department of Computer Science and Engineering, KPR Institute of Engineering and Technology.	2023 2nd International Conference on Automation, Computing and Renewable Systems (ICACRS)	Jan 2024	Scopus	https://ieeexplore.ieee.org/document/10404231
14	Fake Review Detection and Classification Using Improved Convolutional Neural Network on Amazon Dataset	C.SASIKALA Department of Computer Science and Engineering, KPR Institute of Engineering and Technology	Ramya S Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. Rajesh kumar S Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. Ramachandramoorthy K. B Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. VijayaKumar S Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. Umapathi K Department of Computer Science and Engineering, KPR Institute of Engineering and Technology.	2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN)	pp. 398-403, doi: 10.1109/ICPCSN58827.2023.00071.	Scopus	https://ieeexplore.ieee.org/abstract/document/10266285
15	A Real-time Drowsiness Tracking Framework Using the Single Shot with Mediapipe	Mouthami K, Department of Computer Science and Engineering, Coimbatore	N. Yuvaraj Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology, M. Navadharani, PG Scholar, Dept. of Computer Science Engineering, KPR Institute of Engineering and Technology.	2023 9th International Conference on Smart Structures and Systems (ICSSS)	pp. 1-6, Nov - 2023	Scopus	https://ieeexplore.ieee.org/abstract/document/10407102
16	Performance Analysis of YOLOv8, RCNN, and SSD Object Detection Models for Precision Poultry Farming Management	Vishnu Kumar Kaliappan	SV Manjusree, Kavyanjali Sha	International Conference on Applied Electromagnetics, Signal Processing and Communication (AESPC)	Jan 2024	Scopus	https://ieeexplore.ieee.org/abstract/document/10389906/

17	Deep learning based on coconut tree leaf disease detection and classification for precision farming	V Yogabalajee	Vishnu Kumar Kaliappan	International Conference on Smart Structures and Systems (ICSSS)	Jan 2024	Scopus	https://ieeexplore.ieee.org/abstract/document/10407324
18	Chinese cabbage leaf disease prediction and classification using Naive Bayes VGG-19 convolution deep neural network	Vishnu Kumar Kaliappan,	K Anuprabha	International Conference on Smart Structures and Systems (ICSSS)	Jan 2024	Scopus	https://ieeexplore.ieee.org/abstract/document/10407076
19	Comprehensive review of Transfer Learning	D. Naveenprabhu, Student, Department of CSE, KPRIET	R. Naveen; Nithish barathy, M. Naveenkumar	INTERNATIONAL CONFERENCE ON INNOVATIONS IN ROBOTICS, INTELLIGENT AUTOMATION AND CONTROL	Dec 2023	Scopus	https://pubs.aip.org/aip/acp/article-abstract/2914/1/050028/2929654/Comprehensive-review-of-transfer-learning?redirectedFrom=fulltext
20	Phision:Phising Detection Application	Gokul Rangasamy, Student,CSE KPRIET	T.Primya,Gurupriya Kumar, Harinath sivakumar	2024 Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE)	April 2024	Scopus	https://ieeexplore.ieee.org/abstract/document/10493749
21	Enhancing COVID-19 Detection with YOLOv5 Object Detection Algorithm in Chest X-ray Images	Premkumar Duraisamy Department of Computer Science and Engineering, KPR Institute of Engineering and Technology	Arunkumar D Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. Niranjani V Department of Computer Science and Engineering, Sri Eshwar College of Engineering, Coimbatore.	2024 3rd International Conference for Innovation in Technology (INOCON)	May 2024	Scopus	https://ieeexplore.ieee.org/document/10512285

S.No	Title of the Chapter	Name of the Authors & Affiliation as per the order in papers (Highlight the KPR Authors name)	Title of the Book & Publisher	Page No. Month and Year of Publication	Indexing Scopus / WoS	Online Link of the Chapter/Book		
1	Multivariate Cryptosystem Based on a Quadratic Equation to Eliminate the Outliers Using Homomorphic Encryption Scheme	M.Janani CSE Department KPR Institute of Engineering and Technology Jeevitha.R Jaikumar.R Suganthi.R Jhansi Ida.S	Homomorphic Encryption for Financial C	Pg.No - 277 to 302 and August 2023	Scopus	https://link.springer.com/chapter/10.1007/978-3-031-35535-6_13		
2	Futuristic Adoption of Blockchain Technology in the Smart Agriculture and Food Industry: Basic Concepts, Structure, Characteristics, Applicabilities	S.K.Geetha CSE Department KPR Institute of Engineering and Technology Rajasekaran Thangaraj, J. K. Kiruthika, A. Devipriya	Contemporary Developments in Agricultural Cyber-Physical Systems IGI Global Publisher	(pages 122-148),August, 2023	Scopus	https://www.igi-global.com/chapter/futuristic-adoption-of-blockchain-technology-in-the-smart-agriculture-and-food-industry/327601		
3	Advancements in Machine Learning Techniques for Optimizing Cognitive Radio Networks: A Comprehensive Review	Niranjani V CSE Department Sri Eshwar College of Engineering Premkumar Duraisamy, Department of Computer Science and Engineering, KPR Institute of Engineering and Technology. M. Priyadharshan, Department of Computer Science and Engineering, Hindusthan College of Engineering and Technology. B. Gayathri, Department of Computer Science and Engineering, MountZion College of Engineering and Technology.	Advances in Computational Intelligence in Materials Science AnaPub Publications, Kenya.	130-135 & 07 June 2023	Scopus	https://doi.org/10.53759/acims/978-9914-9946-9-8_20		
4	Cyber-Physical Systems in Agriculture: Applications, Challenges, and Future Perspectives	C.Sasikala CSE Department KPR Institute of Engineering and Technology L. Dharani Chemical Department KPR Institute of Engineering and Technology	Contemporary Developments in Agricultural Cyber-Physical Systems IGI Global Publisher	23 - 40& 07 June 2023	Scopus	https://www.igi-global.com/chapter/cyber-physical-systems-in-agriculture/327596		
5	Industrial Internet of Things and Industry 4.0: A learner's perspectives toward quantum technologies	Nisha Soms CSE Department KPR Institute of Engineering and Technology Kalyani, S., SRIT; Nagarani, S, SRIT; Rohini, M, SKCET; Oswalt, M.S, SKCET	Quantum Computing and Artificial Intelligence: Training Machine and Deep Learning Algorithms on Quantum Computers De Gruyter	pp. 243-270.	Scopus	https://www.degruyter.com/document/doi/10.1515/9783110791402-013/html		
6	IoT Enabled Smart Transportation System	Premkumar D CSE Department KPR Institute of Engineering and Technology Yuvaraj N, KPRIET; Kathiresan K, KPRIET; Niranjini V, SECE	Blockchain Enabled Secure Big Data Computing for Smart Cities Using Internet of Things Nova Science Publishers	January 2024	Scopus	https://doi.org/10.52305/ZTKF5521 ISBN: 979-8-89113-280-1		
7	Internet of Things for Smart Cities: Overview and Challenges	A Suganya, IT, Karpagam College of Engineering, Coimbatore S Manoj Kumar, CSE, KPR Institute of Engineering and Technology, Coimbatore	Blockchain Enabled Secure Big Data Computing for Smart Cities Using Internet of Things Nova Science Publishers	January 2024	Scopus	https://doi.org/10.52305/ZTKF5521 ISBN: 979-8-89113-280-1		

8	IoT Devices in Healthcare	A Suganya, IT, Karpagam College of Engineering, Coimbatore S Manoj Kumar , CSE, KPR Institute of Engineering and Technology, Coimbatore	Technological Tools for Predicting Pregnancy Complications IGI Global Publisher	Page 1-17, October 2023	Scopus	https://www.igi-global.com/chapter/iot-devices-in-healthcare/332204 DOI: 10.4018/979-8-3693-1718-1.ch0		
9	Applications of quantum AI for healthcare	K. Sasi Kala Rani, SKCET, Coimbatore Priyadarsheni J M, SKCET, Coimbatore. B. Karthikeyan , KPRIET, Coimbatore. G. S. Pugaleendhi, SKCET, Coimbatore	Quantum Computing and Artificial Intelligence: Training Machine and Deep Learning Algorithms on Quantum Computers De Gruyter	Page 271-276	Scopus	https://doi.org/10.1515/9783110791402-014		
10	Deep learning system based naturalistic communication in brain-computer interface for quadriplegic patient	Dr.N.Yuvaraj , CSE Department KPR Institute of Engineering and Technology K. Mouthami, Gitanjali Wadhwa, CSE, KPR Institute of Engineering and Technology, Coimbatore	Computational Intelligence and Deep Learning Methods for Neuro-rehabilitation Applications ELSEVIER	November 1, 2023	Scopus	https://shop.elsevier.com/books/computational-intelligence-and-deep-learning-methods-for-neuro-rehabilitation-applications/hemanth/978-0-443-13772-3		
11	Dynamic Detection of Malwares Using Deep Learning Techniques	M. Nivaashini, AP/CSE, Sri Ramakrishnan College of Engineering R. S. Soundariya, AP/CT Bannari Amman Institute of Technology B. Vishnupriya , AP/CSE, KPR Institute of Engineering of Technology R. M. Tharsanee, AP/CSE Bannari Amman Institute of Technology	Wireless Communication for Cybersecurity WILEY ONLINE LIBRARY	27 October 2023	Scopus	https://onlinelibrary.wiley.com/doi/epdf/10.1002/9781119910619.ch2		
12	Implementation of a Distributed Electronic Voting System Using a Blockchain-Based Framework	Nisha Soms CSE Department KPR Institute of Engineering and Technology Lawrance, J., Harshitha, R., Dakshineshwar, D.S., Sri Ramakrishna Institute of Technology, Coimbatore	Integrating Blockchain and Artificial Intelligence for Industry 4.0 Innovations. EAI/Springer	4 October 2023	Scopus	https://link.springer.com/chapter/10.1007/978-3-031-35751-0_10		
13	Blockchain-Based Decentralized Student Verification Platform	Nisha Soms CSE Department KPR Institute of Engineering and Technology Adhithyan, S., Lokesh, M.S., Madhumitha, K., Sri Ramakrishna Institute of Technology, Coimbatore	Integrating Blockchain and Artificial Intelligence for Industry 4.0 Innovations. EAI/Springer	4 October 2023	Scopus	https://link.springer.com/chapter/10.1007/978-3-031-35751-0_14		
14	Deep learning method for adult patients with neurological disorders under remote monitoring	K Kathiresan , CSE Department KPR Institute of Engineering and Technology T. Preethi, N. Yuvaraj, S. Karthic, K.R. Sri Preethaa, CSE, KPR Institute of Engineering and Technology, Coimbatore	Computational Intelligence and Deep Learning Methods for Neuro-rehabilitation Applications ELSEVIER	14 November 2023	Scopus	https://shop.elsevier.com/books/computational-intelligence-and-deep-learning-methods-for-neuro-rehabilitation-applications/hemanth/978-0-443-13772-3		
15	Ergonomic Prevention Method Based on the UX Index to Assess Industrialized Tasks From a Human-Centered Standpoint	Hemawathi M. S. Sivaramakrishnan R. , Dhanasekaran P., Pavithra R., Illavarasi S.	Human-Centered Approaches in Industry 5.0: Human-Machine Interaction, Virtual Reality Training, and Customer Sentiment Analysis IGI Global Publisher	1 November 2023	Scopus	https://www.igi-global.com/book/human-centered-approaches-industry/333621		
16	Defect Exposure in Vegetables and Fruits using Machine Learning Algorithms	P.Chinnasamy K.B.Sri Sathya Rameshkumar Ayyasamy V. Praveena Arulananth TS	Engineering, Science and Sustainability : Advancements in Technology and Techniques, CRC Press, Taylor & Francis Group	28 September 2023	Scopus	https://www.taylorfrancis.com/chapters/edit/10.4324/9781003388982-47/defect-exposure-vegetables-fruits-using-machine-learning-algorithms-chinnasamy-sri-sathya-ramesh-kumar-ayyasamy-praveena-arulananth		

17	Edge-Cloud Collaborative Inference Expending Federated Learning in Task Migration	Vishnu Kumar Kaliappan , Sakthivel Velusamy, P Dhanasekaran, S Gnanamurthy, S Illavarasi	Pioneering Smart Healthcare 5.0 with IoT, Federated Learning, and Cloud Security		Scopus	https://www.igi-global.com/chapter/edge-cloud-collaborative-inference-expending-federated-learning-in-task-migration/339429		
18	Safety for Digital Immersive Environments and Social Economic Dynamics Based on Designing the Metaverse	S Vinoth Kumar, Vishnu Kumar Kaliappan , A Suresh, B Suresh Kumar, SV Manikanthan	Human-Centered Approaches in Industry 5.0: Human-Machine Interaction, Virtual Reality Training, and Customer Sentiment Analysis IGI Global Publisher		Scopus	https://www.igi-global.com/chapter/safety-for-digital-immersive-environments-and-social-economic-dynamics-based-on-designing-the-metaverse/337107		
19	From Remote Monitoring to Personalized Care: A Review of IoT-Based Patient Engagement Solutions in Healthcare	SJ Suji Prasad, R Manjula Devi , P Keerthika, P Suresh, A Rex Macedo Arokiaraj, M Sangeetha	Convergence of Blockchain and Internet of Things in Healthcare, CRC Press	March 2024	Scopus	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003466949-17/remote-monitoring-personalized-care-suji-prasad-manjula-devi-keerthika-suresh-rex-macedo-arokiaraj-sangeetha		
20	CardioSegNet meets XAI: A Breakthrough in Left Ventricle Delineation within Cardiac Diagnostics	Abhinaya Saravanan, S. David Samuel Azariya, Nisha Soms	Explainable AI (XAI) for Sustainable Development	2024	Scopus	https://www.taylorfrancis.com/chapters/edit/10.1201/9781003457176-9/cardiosegnet-meets-xai-abhinaya-saravanan-david-samuel-azariya-nisha-soms		

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**July 2023 - June 2024
PATENT PUBLICATION**

S.No	Title of the Patent	Indian / Australian	Patent Published date	Granted Yes/No	Publication No/Grant Number
1	MEDICAL INSTRUMENT FOR MONITORING RESPIRATORY DISEASE	Indian	20/07/2023	Yes	390717-001
2	EDGE DETECTION IN DENTAL RADIOGRAPHS USING GENERALIZED TYPE 2 FUZZY LOGIC SYSTEM	Indian	10-11-2023	No	202341075074 A
3	AN EDGE-CLOUD INTEGRATED PRIVACY-PRESERVING HEALTHCARE SYSTEM FOR PARKINSON'S DISEASE PREDICTION AND CLASSIFICATION	Indian	24/11/2023	No	202341070297 A
4	A SYSTEM FOR ANALYSIS OF CRITICAL CRISIS MANAGEMENT FACTORS USING MACHINE LEARNING	Indian	22/09/2023	No	202341036235 A
5	AI BASED CONTACTLESS WELLNESS AND VITAL SIGN SHORT TERM MONITORING SYSTEM FOR THE ELDERLY PATIENTS	Indian	24/11/2023	No	202341072769 A
6	DEEP LEARNING FRAMEWORK FOR AUTONOMOUS VEHICLES	Indian	05-01-2024	No	202341082675 A
7	A FRAMEWORK FOR OPEN SOURCE GEN AI LLM AND DIFFUSION BASED MODELS USING COMPRESSION AND OPTIMIZATION	Indian	05-01-2024	No	202341089262 A
8	AN EFFICIENT RAINFALL IRRIGATION SYSTEM	Indian	05-01-2024	No	202341081782 A
9	VOICE ASSISTANT FOR APHASIA PATIENTS	Indian	05-01-2024	No	202341081785 A
10	AN ENHANCED GESTURE RECOGNITION FOR ADAPTABLE HUMAN COMPUTER INTERACTION USING DEEP LEARNING APPROACH	Indian	23/02/2024	No	202441002645 A
11	AUTOMATIC BRAKE ASSIST SYSTEM	Indian	05-01-2024	No	202341081779 A

12	MED-X	Indian	05-01-2024	No	202341081783 A
13	AUTOWASRO	Indian	05-01-2024	No	202341081781 A
14	LIQUID QUALITY MONITORING SYSTEM	Indian	05-01-2024	No	202341081786 A
15	AUTOMATED ARDUINO CAR	Indian	05-01-2024	No	202341081784 A