

DMI ENGINEERING COLLEGE

Number of research papers published per teacher in the Journals notified on UGC CARE list during 2024

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Date and month Calendar Year of publication	ISSN number	Is it listed in UGC Care list
Emowering Hybrid EVS with bidirectional Dc-Dc converter for seamless V2G and G2V Integration	P.S.Meenambikai, T.Dharmaraj, R.Premkumar, Anita merlin I	EEE	I-manager's journal on Electrical Engineering	2024		No
Enhancing Wireless power transfer efficiency for electric vehicles using ANN-Based prediction and Grey wolf Optimization	Anita merlin I,T.Dharmaraj, P.S.Meenambikai	EEE	Journal of interdiscipilinary Cycle Research	2024	022-1945	Yes
Dense Exudates Net:a novel approach for hard exudates detection in retinal images	Dr. C.Pratheeba, Dr.N.Calvin Jeba Rufus	ECE	International Journal of Machine Learning and Cybernetics	2024	s13042-024-02429-4	SCI
MAML- Enhanced LSTM for Air Quality Time Series Forecasting	Dr.B.Baron Sam	AI&DS	Water Air Soil Pollut	2024	235-783	SCI
Attention-enhanced Deep Ret i Net for robust hard exudates detection in diabetic retinopathy	Dr. C.Pratheeba, Dr.N.Calvin Jeba Rufus	ECE	Biomedical Signal Processing and Control	2024	2024.106903	SCI

Blockchain and Machine Learning Approaches for Credit Card Fraud detection	Princy Usha M	CSE	African Journal of Biological Sciences	2024	2663-2187	Scopus
Development of zero emission formaldehyde plywood as an Eco-Friendly plywood for safer air	P. S. Vijayanand, C. Mahiloo Christopher, J. Jeba Jenkin, S. Jagan, A. Jayaraman	CIVIL	African Journal of Biological Sciences	2024	2663-2187	Scopus
Evaluation of material removal rate on tin composite using electro chemical and laser machining processes	Ravi Roopkumar P. Karunya Moorthy E. Mohan C. Mahiloo Christopher Ram Subbiah	MECH	Interactions	2024	1072-5520	SCI
Development Of Zero Emission Formaldehyde Plywood As An Eco-Friendly Plywood For Safer Air	P.S. Vijayanand, C.Mahiloo Christopher, J. Jeba Jenkin, S. Jagan, A.Jayaraman	MECH	African Journal of Biological Science	2024	2663-2187	SCI
An Analysis of the Amount of Energy Used during the Milling of Aluminum 6061 with Higher Performance	Dr.K.Hari Ram, Prof/Mech	MECH	Key Engineering Materials	2024		yes
Steel Boiler Tube with HVOF Coating: Peculiarity and Interfacial	Dr. P. Mohan, Dr. K. Hari Ram Dr. D.S. Jenaris, Dr. D.S. Manoj Abraham and Dr. R. Rethan Raj	MECH	Materials Science Forum	2024	1662-9752	SCI
An eye bolt shape slotted microstrip patch antenna design and return loss prediction using machine learning	J.Merin Joshiba, D.Judson	ECE	Sadhana - Indian Academy of Science	Feb 2024	0973 -7677	yes

The behaviour of fatigue in an aluminium alloy that has been coated with an electroless nickel-phosphorus deposit	P. Mohana , D.S. Jenarisb,d, D.S. Manoj Abrahamb , T. Livingstonb and K. Hariramc	MECH	International Journal of Vehicle Structures and Systems	2023		yes
Mechanical, wear, and low cycle fatigue behaviour of rice husk ash Si3N4 and pineapple/basalt Fiber–reinforced polyester composite	J. Jesumanen, · M. Chandrasekaran, · P. Babu Aurtherson	MECH	Biomass Conversion and Biorefnery	2023	2190-6815	SCI

DMI ENGINEERING COLLEGE

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during 2024

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
P.S.Meenambikai		Empowering Hybrid EVS with bidirectional DC-DC Converter for seamless V2G and G2V Integration	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE -2024	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College

Dr.M.Antony Freeda Rani,K.C.Sandhya,A.A ro selva stino		Modular multilevel converter Fed induction drives		ICECRETE -2024	Internati onal	2024	978-81-973302-9-2	DMI Engineeri ng College	DMI Engineer ing College
T.Bright Fidalis,Mr.Binu Packia Ananth		Design and implementation of converter control strategy for a sustainable micro grid with wind and photovoltaic resources		ICECRETE -2024	Internati onal	2024	978-81-973302-9-2	DMI Engineeri ng College	DMI Engineer ing College
Dr.W.Deva Priya, Dr.Kamalakkannan, Dr. A. Albert Raj, Mr.Kalesh Busa	Image aprocessing using PYTHON				National	2024	978-81-975326-4-1	DMI Engineeri ng College	Tech Discover y Hub
Dr. A. Albert Raj		Dragon fly optimized K-Means clustering via wireless sensor network for energy consumption	Mobile Radio communications & 5G Networks- Proceedings of Fifth MRCN-2024	MRCN-2024	Internati onal	2024		DMI Engineeri ng College	Springer
Mrs.J.Merin Joshiba, Mrs.R.D.S.Terese Sheeba, Mrs.S.Rekha		Double Elliptical Microstrip patch antenna for breast cancer detection	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE -2024	Internati onal	2024	978-81-973302-9-2	DMI Engineeri ng College	DMI Engineer ing College
Dr. Abhisha Mano, A. Baar na Devi,J.Epsipha P. Esaki Pandi		Deep Learning Assisted Methodology for multiclass classification of malignant brain tumors		ICECRETE -2024	Internati onal	2024	978-81-973302-9-2	DMI Engineeri ng College	DMI Engineer ing College

Mrs.J.Stephy Christina,Mrs.Anto Swaruba, Mrs.G.Lingeshwari		An Asymmetric Autoencoder Cryptosystem based in Artificial neural Network		ICECRETE -2024	Internati onal	2024	978-81- 973302-9- 2	DMI Engineeri ng College	DMI Engineer ing College
Dr.C.Pratheeba, Uma Maheswari,Aruna,Epsi pha		AI-Integrated Vegetable Harvester: Real time Tomato Ripeness Detection and Selective Harvesting	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE -2024	Internati onal	2024	978-81- 973302-9- 2	DMI Engineeri ng College	DMI Engineer ing College
Mrs.Annabel Shimi, Ms.S.Reny		Sar-Based Water Body Segmentation with Deep Learning and Swarm Optimization		ICECRETE -2024	Internati onal	2024	978-81- 973302-9- 2	DMI Engineeri ng College	DMI Engineer ing College
T.Thanka Geetha, Vijayan.R, N.Calvin Jeba Rufus		Evaluation of Robot Pilots for Improving Topologies Using AI	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE -2024	Internati onal	2024	978-81- 973302-9- 2	DMI Engineeri ng College	DMI Engineer ing College
Mrs.D.Betteena Shery Fernando, Mrs.S.Aloysius Jelcy, Ms.Princy Usha		Smart Cradle for Baby Monitoring System		ICECRETE -2024	Internati onal	2024	978-81- 973302-9- 2	DMI Engineeri ng College	DMI Engineer ing College

Y. V. Monisha Raju, J. Jeba Christy, Sheeba D		Deep Learning Based Plant Disease Detection and Fertilizer Recommendation for Smart Farming		ICECRETE-2024	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
I Domilin Shyni		Innovative Approaches to Dental Age Estimation: A Comprehensive Review of CNN Technologies and Ethical Issues	IEEE Conference		International	2024	979-8-3503-8960-3	DMI Engineering College	Scad engineering College
I Domilin Shyni		Early Detection of Interproximal caries using YOLOv8 CNN on bitewing radiograph	IEEE Conference		International	2024	979-8-3503-8959-3	DMI Engineering College	Scad engineering College
Dr.J.Johnsy Rose,Dr.P.Jebha Starling,Mrs.S.Sindhu		The Synthesis and Characterization of Polymeric Materials Derived from Acrylated Epoxidized Olive oil	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE-2024	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
Dr.P.Jebha Starling, Dr.J.Johnsy Rose,Mrs.S.Sindhu		Novel Synthetic Mono and dicationic ionic liquids , exhibiting enhanced biological performance	International conference on prospective of multifunctional materials(ICPMM-2024)	ICPMM-2024	International	2024	978-93-5577-829-1	DMI Engineering College	St.Alphonsa College of Arts and Science

Ms.V.Priscollin Avina, Mrs.N.S.Benila, Mrs.GV.Soni meera		Integrated Approach for Skin Disease Identification Using Multimodal 3D Imaging and Machine Learning	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE-2024	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
Sahaya Selin Rose.S		Treatment of crumb rubber waste water by advanced oxidation process	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE-2024	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
R.Reeba Jennifer, Dr.V.R.Balaji, Dr.A.Albert Raj		An Attribute Extraction technique for Micro-Sleep Discernment based on Random Sampling ANN's	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE-2024	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
Annabel Shimi S P	Algorithms					2024	978-93-6260-530-6	DMI Engineering College	Charulatha Publications
Princy Usha M		Novel Hybrid Convolution Neural Network –Support Vector Machine algorithm	IEEE Conference	INTELLIGENT	International	2024		DMI Engineering	IEEE explore

		for Effective diagnosis of Diabetics Data		COMPUTING				ng College	
Betteena Sheryl Fernando D		Advancements in Neural Network-Based Text Summarization Techniques		Multidisciplinary Research in Arts, Science & Commerce	National	2024	978-81-971947-9-5	DMI Engineering College	The Hill Publication
Betteena Sheryl Fernando D, Princy Usha M		Smart Cradle for Baby Monitoring System		Ethical Challenges in Recent Emerging Technologies in Engineering	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
Anorelin.A, Y.V. Monisha Raju		Real time Object Detection with voice feedback		ICECRETE-2024	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
Annabel Shimi S P		SAR-based Water Body Segmentation with Deep Learning and Swarm Optimization		Ethical Challenges in Recent Emerging Technologies in Engineering	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
Y.V.MONISHA RAJU, SHEEBA. D		Deep Learning based Plant Disease Detection and Fertilizer		Ethical Challenges in Recent Emerging	INTERNATIONAL	2024	978-93-6260-530-6	DMI Engineering College	DMI Engineering College

		Recommendation for Smart Farming		Technologies in Engineering					
SHEEBA D		Ethical Ai: Striking A Balance Between Technological Innovation And Social Responsibility To Ensure Fair And Transparent Artificial Intelligence Systems		Global Issues in Multidisciplinary Academic Research (GIMAR)	International	2024	978-1-80433-924-4	DMI Engineering College	Rubicon publication
Ms.Abira.A, Mrs.Anni Steffi Mercy.J, Dharshini.J, Dershiya.V, Varsha.R.S		Hand getures recognition using fractional Fourier Transform and KNN Classifier	Proceedings of International conference on Ethical Challenges in Recent Emerging Technologies in engineering	ICECRETE-2024	International	2024	978-81-973302-9-2	DMI Engineering College	DMI Engineering College
S.Rekha R.V . Revathi		The Total Detour Edge Semi Toll Number of a Graph	Proceedings of ICMRSH-2024	ICMRSH-2024	International	2024	978-81-969358-1-8	DMI Engineering College	SNS College of Technology
,Dr.P.Jebha Starling Dr.J.Johnsy Rose, .S.Sindhu		Effect of Mono and Dicationic Ionic liquids Against Larvae of the Filarial vector Culex Quinquefasciatus	Proceedings of ICMRSH-2024	ICMRSH-2024	International	2024	978-81-969358-1-8	DMI Engineering College	SNS College of Technology
R.V . Revathi S.Rekha		The weak edge detour values of a Graph	Proceedings of ICMRSH-2024	ICMRSH-2024	International	2024	978-81-969358-1-8	DMI Engineering College	SNS College of

								ng College	Technol ogy
Dr.A.Albert Raj	Machine Learning for Neurodegenerative Disorders	A unique machine learning Approach to Intracranial Lesion Detection by Dual Segmentation for Anisotropically Diffused MRI Images			Internati onal	20/12/2 024	97810326 61025	DMI Engineeri ng College	CRC Press
Benila.NS,A. Anorelin		AI-Powered Traffic Surveillance: License Plate Recognition with Non-Helmet Detection Using YOLOv8	2024 IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES)	IEEE CONFERE NCE	Internati onal	Decem ber 2024	979-8- 3503- 7613-5	DMI Engineeri ng College	IEEE
Dr.M.Antony Freedarani		Firefly optimized Energy Management with improved Boost Converter for hybrid charging of electric vehicles	ICPERES 2024		Internati onal	20/12/2 024 & 21/12/2 4		DMI Engineeri ng College	Rajalaks hmi Engineer ing College
Princy Usha M		Polycystic Ovary Syndrome Prediction System Using K Nearest Neighbor Machine Learning Algorithm			Internati onal	2023	PSRAIDT T-062	DMI Engineeri ng College	