

DIVISION OF COMPUTER SCIENCE ENGINEERING

Faculty Publications & Research Contributions | Academic Year 2022–2023

JOURNALS

SI No:	Name of the Faculty	Title of the Paper	DOI Number	Indexing Status
1	Dr Anand Hareendran S	Real - time railway track crack analysis using multi-level classification	https://doi.org/10.1007/s43538-022-00127-9	E-SCI/Scopus October 2022
2		Smell detection agent optimization approach to path generation in automated software testing	https://link.springer.com/article/10.1007/s10836-022-06033-8	SCIE/Scopus December 2022
3		Smell detection agent optimization approach to path generation in automated software testing	https://doi.org/10.1007/s10836-022-06033-8	SCIE December 2022
4		COVID-19 severity detection using machine learning techniques from CT-images.	https://doi.org/10.1007/s12065-022-00739-6	ESCI and Scopus Indexed June 2022
5	Ms Sreenu G	Smart and Deep Hand Movement Tracking from Crowd Videos through Particle Filtering and Matrix Transformation	https://link.springer.com/article/10.1007/s42979-022-01313-8	Scopus August 2022
6	Ms Fasila K A	SCADBIN: A Blockchain-based Security Framework for Electronic Health Record Management	Grenze ID:01.GIJET.9.1.637 ISSN: 2395-5295 2395-5287(Print) Volume 9, Issue 1, January 2023	Scopus January 2023
7		An efficient lightweight key exchange algorithm for internet of things applications	http://doi.org/10.11591/ijece.v12i5.pp5609-5618	Scopus October 2022
8	Ms Bismin V Sherif	Detection and Isolation of Selfish Nodes in MANET Using Collaborative Contact-Based Watchdog with Chimp-AODV	https://www.researchsquare.com/article/rs-754829/v1	SCIE Sep 2022
9		Selfish node management in opportunistic mobile networks with improved social based watchdog and dynamic power AODV protocol	https://doi.org/10.1007/s41870-022-01030-8	Scopus July 2022

10	Ms Asha Raj	Design And Implementation Of An Efficient Text Summarization Method Using Self-Organizing Maps	https://iraj.doionline.org/dx/IJACEN-IRAJ-DOIONLINE-19126	Google Scholar Oct-2022
11	Dr Sumam Mary Idicula	Deep Learning Based Synthetic Aperture Radar Image Classification	https://doi.org/10.1002/9781119861850.ch3	Scopus November 2022
12		Feature based entailment recognition for Malayalam language texts	http://dx.doi.org/10.14569/IJACSA.2022.0130283	ESCI 2022
13		An answer recommendation framework for an online cancer community forum	https://doi.org/10.1007/s11042-023-15477-9	Scopus May 2023
14		Abstractive Summarization of Text Document in Malayalam Language: Enhancing Attention Model Using POS Tagging Feature	https://doi.org/10.1145/3561819	SCIE March 2023

CONFERENCES

SI No:	Name of the Faculty	Title of the Paper	DOI Number	Indexing Status
1	Dr Sumam Mary Idicula	Siamese network with transfer learning for similar query retrieval in online health community forums	https://doi.org/10.1007/978-981-16-8550-7_32	Scopus April 2022
2		Novel Deep Learning-Based Technique for Sentinel-1 Ocean SAR Vignettes Classification	https://doi.org/10.1109/ICC45855.2022.9838934	IEEE Xplore, Scopus August 2022
3		Spatio-temporal data clustering using deep learning: A review	https://doi.org/10.1109/EAIS51927.2022.9787701	IEEE Xplore, Scopus June 2022
4		An Improved Query Similarity Model for Online Health Community Forum Using Cross-Attention Mechanism on Siamese Network	https://doi.org/10.1007/978-981-19-7524-0_47	Scopus February 2023
5		Textual Inference Identification in the Malayalam Language Using Convolutional Neural Network	https://doi.org/10.1007/978-981-19-2980-9_20	Scopus August 2022

6		English to Indian Sign Language Gloss Conversion Using a Rule-Based Approach	https://doi.org/10.1007/978-981-19-3951-8_55	Scopus September 2022
7		Enhanced Video Classification System with Convolutional Neural Networks Using Representative Frames as Input Data	https://doi.org/10.1007/978-981-19-4162-7_25	Scopus November 2022
8	Ms Bismin V Sherif	Comparative analysis on different deepfake detection methods and semi supervised gan architecture for deepfake detection	https://doi.org/10.1109/I-SMAC55078.2022.9987265	IEEE Xplore, Scopus December 2022
9	Dr Rajesh Cherian Roy	Development and Analysis of Convolutional Neural Network based Accurate Speech Emotion Recognition Models	https://doi.org/10.1109/INDICON56171.2022.10040174	IEEE Xplore, Scopus February 2023
10		Spoken language identification of Indian languages in adversarial synthetic and noisy attacking environments	https://doi.org/10.1109/IC3SIS54991.2022.9885560	IEEE Xplore, Scopus September 2022
11	Ms Dhanya Sudarsan	An Overview of Character Recognition from Palm Leaf Manuscripts	https://doi.org/10.1109/ICSMDI57622.2023.00056	IEEE Xplore, Scopus May 2023
12	Dr Cerene Mariam Abraham	Real-time earthquake detection using Twitter tweets.	https://doi.org/10.1063/5.0102903	Scopus August 2022
13	Dr Cerene Mariam Abraham	Cyber Complaint Automation System	10.1109/ACCTHPA57160.2023.10083354.	Scopus April 2023
14	Dr Priya C V	An Automated System For Subject Allocation Among Faculty in Academic Institutions	10.1109/IPRECON55716.2022.10059509	IEEE Xplore, Scopus March 2023
15	Dr Sumam Mary Idicula	Malayalam language textual inference identification through attention over embeddings	https://doi.org/10.1007/978-3-031-11633-9_1	Scopus July 2022
16		Novel Deep Learning-Based Technique for Sentinel-1 Ocean SAR Vignettes Classification	https://doi.org/10.1109/ICC45855.2022.9838934	IEEE Xplore, Scopus August 2022

17		Spatio-Temporal Data Clustering using Deep Learning: A Review	https://doi.org/10.1109/EAIS51927.2022.9787701	IEEE Xplore, Scopus June 2022
BOOK CHAPTERS				
<u>Sl.No</u>	<u>Faculty</u>	<u>Title of the Book Chapter</u>	<u>DOI number</u>	<u>Indexing Status</u>
1	Dr Sumam Mary Idicula	Enhanced Video Classification System with Convolutional Neural Networks Using Representative Frames as Input Data	https://doi.org/10.1007/978-981-19-4162-7_25	Scopus November 2022
2	Ms Ameena K Ashraf	Static Data Race Detection in Multi-task Programs for Industrial Robots	https://link.springer.com/chapter/10.1007/978-3-031-24848-1_4	Scopus January 2023
3	Ms Bismin V Sherif	Multi- model deepfake detection using deep and temporal features	https://doi.org/10.1007/978-3-031-12413-6_53	Scopus July 2022
4	Ms Sruthi S	Emergency Help for Road Accidents	https://doi.org/10.1007/978-981-19-6406-0_19	Scopus March 2023
5	Ms Sneha Sreedevi	An Analytical Approach for Extracting Entities and Their Emotional Tones in Narrative Scenarios	https://link.springer.com/chapter/10.1007/978-981-19-2130-8_16	Scopus Aug 2022

MECHANICAL ENGINEERING

Faculty Publications & Research Contributions | Academic Year 2022–2023

Sl No	Type	Faculty	Title	Journal name	DOI	Month & Year of Publication	Indexing	Impact factor	Peroid	Verified	
	Journal	Dr. Bibin Jose	Development of a low heat-input welding technique for joining plates of 250 grade maraging steel to fabricate rocket motor casings	Materials Letters (Elsevier)	https://doi.org/10.1016/j.matlet.2022.132984	November 2022	SCI/SCIE	2.7	Outside this college	Yes	10
2	Journal	Dr. Bibin Jose	Technology development for thick section of aerospace-grade MDN 250 weldments with higher weld strength and toughness by suppressing reverted austenite phase	Journal of Materials Engineering and Performance (Springer)	https://doi.org/10.1007/s11665-021-06330-x	November 2024	SCI/SCIE	2.2	Outside this college	Yes	

3	International Conferences	Dr. Bibin Jose	A comparative evaluation on the microstructure and mechanical properties of MDN 250 grade Maraging steel joined by Gas metal arc welding (GMAW) and Gas tungsten arc welding (GTAW) techniques'	16th Global Congress on Manufacturing and Management, GCMM 2022, Auckland University of Technology, New Zealand	NA	December 2022	NA	NA	Outside this college	Yes	
4	Publications	International Journal papers with impact factor<1.5	MANOJ KUMAR K	International Journal of Machining and Machinability of Materials							
5	Publications	Book	MANOJ KUMAR K	WILEY							
6	Publications	Book Chapters	MANOJ KUMAR K	CRC Press							
7	Publications	Book Chapters	MANOJ KUMAR K	Advances in Micro and Nano Manufacturing and Surface Engineering (Springer, Singapore)							