

PUBLICATIONS 2025-2026

DEPARTMENT OF COMPUTER SCIENCE & ALLIED

Faculty Publications & Research Contributions | Academic Year 2025-2026 (CAY)

JOURNALS

	Name of the Faculty	Title of the Paper	DOI / Reference Link	Indexing Status
1	Dr. Sumam Mary Idicula	A Systematic Survey of Automatic Image Description Generation Systems.	https://doi.org/10.1142/S0219467826500026	SCI (2026)
2	Dr. Suja C Nair	Tri-projection gated cross-modal fusion for robust multilingual emotion recognition	https://doi.org/10.1016/j.knosys.2026.116079	SCIE (June 2026)
3	Dr. Suja C Nair	Lung Disease Classification And Infection Region Detection Using MDCGRURNN Classifier	https://doi.org/10.25258/ijddt.16.37s.109	SCOPUS (May 2026)
4	Dr. Anishin Raj M M	Enhanced Heart disease prediction using LLM ranked feature selection, Dynamic custom Kernel	https://doi.org/10.1016/j.mlwa.2026.100860	SCOPUS (March 2026)

CONFERENCES

	Name of the Faculty	Title of the Paper	DOI / Publication Source	Indexing / Date
1	Dr. Sumam Mary Idicula	Authorship Attribution of Malayalam Biblical Texts using Deep Learning	10.1109/AICAPS68631.2026.11452807	SCOPUS (31 March 2026)
2	Dr. Cerene Mariam Abraham	AI-Based Communication Interface for Special Needs Children	10.1109/I2ITCON65200.2025.11210575	SCOPUS (July 2025)
3	Ms. Rinu Rose George	Ensemble Based Chest X-ray Classification System	10.1109/ICITIIT68860.2026.11499664	SCOPUS (28 March 2026)
4	Dr. Priya C V	EVA: AI-Driven Avatar for College Event Promotion	10.1109/ICSCC66177.2025.11233814	SCOPUS (July 2025)
5	Dr. Anishin Raj M M	A ML approach to predict Knee Septic Arthritis using Engineered Clinical Features	10.1109/ICSCC66177.2025.11233634	SCOPUS (3 July 2025)
6	Dr. Anishin Raj M M	Vision Transformers for Precise Multi-class Diagnosis of Ocular Diseases	https://doi.org/10.1109/AICAPS68631.2026.11453183	SCOPUS (February 2026)
7	Dr. Anishin Raj M M	Secured Information Hiding principle for Concealing 448-Bit Key of Blow-Fish Algorithm on Digital Images using Chess game-based Queen placement strategy	10.1109/ICTEST64710.2025.11042283	IEEE Xplore (June 2025)

	Name of the Faculty	Title of the Paper	DOI / Publication Source	Indexing / Date
8	Ms. Mithu Mary George, Ms. Rinu Rose George	An Exploratory Data Analysis Guided Machine Learning Framework with Feature Selection for Cardiovascular Disease Prediction	10.1109/AICAPS68631.2026.11453112	SCOPUS (March 2026)
9	Dr. Anoop S	Complexity Analysis of Hierarchical Tucker-Based Tensor Decomposition in 3D CNN and LSTM Architectures for Video Data	10.1109/ICSCC66177.2025.11233461	Presented (Feb 2026)
10	Mr. Safad Ismail	An Improved AI Based System for Criminal Identification and Public Safety	https://doi.org/10.1007/978-3-032-09572-5_27	SCOPUS (24 Jan 2026)
11	Mr. Safad Ismail	Hybrid Transformer-CNN Models for Automated 2D MRI Pituitary Tumor Segmentation	10.1109/CICT67193.2025.11399041	SCOPUS (February 2026)
12	Mr. Safad Ismail	NeuroViT: Transformer-Enhanced U-Net for Pituitary Tumor Detection	10.1109/CICT67193.2025.11399240	IEEE Xplore (Dec 2025)
13	Mr. Sumesh M S	FitSync: AI and Digital Twin Solution for Modern Gyms	10.1109/ICSCC66177.2025.11233425	IEEE Scopus (17 Nov 2025)
14	Ms. Linu Paulose	AI-Driven System For Detecting And Mapping Potholes	10.1109/APCI65531.2025.11137333	IEEE Xplore (27 Sept 2025)
15	Ms. Jency Thomas	Semi-Supervised Learning for Foetal Anomaly Detection Using Limited Annotated Ultrasound	10.1109/ACCTHPA65749.2025.11168653	IEEE Xplore (19 July 2025)
16	Ms. Jency Thomas	Real Time Early Curve Accident Warning System	https://doi.org/10.1007/978-3-031-90577-3_23	SCOPUS (26 Aug 2025)
17	Dr. Rajesh Cherian Roy	Power of graph neural networks: A multi-representational feature fusion approach for resolving phonetically similar Indian languages	Proc. 38th Kerala Science Congress, Jan 30, 2026, pp. 11-26	30 January 2026
18	Dr. Rajesh Cherian Roy	Hybrid graph neural architectures and acoustic-contextual feature fusion for Indian language linguistics	Proc. National Conference on Graph Theory and Its Applications, FISAT	14 October 2025
19	Dr. Rajesh Cherian Roy	Leveraging Augmented Samples as an Auxiliary Task for Enhancing Spoken Language Identification in Indian Languages	10.1109/ICTEST64710.2025.11042813	IEEE Xplore (24 June 2025)
20	Ms. Asha Raj	AI-Driven Smart Fire Evacuation System (11th Int'l Conference on Smart Computing and Communications)	https://doi.org/10.1109/ICSCC66177.2025.11233739	IEEE Xplore (Nov 2025)

Book Chapter

	Name of the Faculty	Title of the Chapter	DOI / Link	Indexing & Details
1	Dr. Sumam Mary Idicula	An Efficient Hybrid Deep Learning Approach for Translating Sanskrit Shlokas into Malayalam with Linguistic Preprocessing	https://doi.org/10.1145/3813805	SCI (June 2026)

	Name of the Faculty	Title of the Chapter	DOI / Link	Indexing & Details
2	Dr. Sumam Mary Idicula	STC-Traj2vec: Spatiotemporal context-integrated trajectory representation learning for clustering	10.1016/j.knosys.2026.11.069	Elsevier (28 June 2026)
3	Dr. Sumam Mary Idicula	Translation of Sanskrit (Shlokas)-Malayalam Using Deep Learning Techniques	https://link.springer.com/chapter/10.1007/978-3-032-05855-3_11	SCOPUS (1 Nov 2025)
4	Ms. Sheena Y	Single Channel EEG Classification for Motor Task	https://doi.org/10.1007/978-981-96-6707-9_3	SCOPUS (10 Oct 2025)
5	Ms. Divya K S	Aroma Detection: A Brief Study on Olfactory Science Using AI	https://link.springer.com/chapter/10.1007/978-981-96-6707-9_2	SCOPUS (10 Oct 2025)
6	Dr. Priya C V	Agrobot: An Intelligent Crop Management Robot for Sustainable Crop Production and Precision Farming	https://link.springer.com/chapter/10.1007/978-981-96-6707-9_4	SCOPUS (10 Oct 2025)
7	Ms. Angel Varghese	Agrobot: An Intelligent Crop Management Robot for Sustainable Crop Production and Precision Farming	https://link.springer.com/chapter/10.1007/978-981-96-6707-9_4	SCOPUS (10 Oct 2025)
8	Dr. Rajesh Cherian Roy	Enhancing spoken language identification on Indian languages with orthogonal task and related task integration: unveiling new dimensions of accuracy	https://doi.org/10.1007/s10772-026-10266-9	SCOPUS (12 May 2026)
9	Dr. Anishin Raj M M	Building Effective AI-Based Machine Learning Systems: A Comprehensive Guide to Design Principles	https://doi.org/10.1002/9781394347070.ch20	SCOPUS (22 May 2026)
10	Dr. Anishin Raj M M	Delving into the basics of QC: From Qubits to Quantum Gates	https://doi.org/10.1002/9781394347070.ch19	SCOPUS (22 May 2026)
11	Dr. Suja C Nair	Lung Disease Classification And Infection Region Detection Using MDCGRURNN Classifier	https://doi.org/10.25258/ijddt.16.37s.109	May 2026
12	Mr. Safad Ismail	SPredict: Stock Market Prediction with Social Media Sentiment Analysis and Machine Learning	https://doi.org/10.1007/978-3-032-06179-9_5	February 2026
13	Mr. Safad Ismail	Tech health CPS: transforming healthcare through cyber-physical systems—opportunities and ethical challenges	https://doi.org/10.1016/B978-0-443-41545-6.00008-7	Elsevier (June 2026)
14	Mr. Safad Ismail	Next Generation Sustainable Bio composites Through Machine Learning: Performance Optimization and Life Cycle Evaluation	https://www.irma-international.org/viewtitle/394831/?isxn=9798337328836	—
15	Mr. Safad Ismail	NIC-Health Nature Inspired Computing for Secure and Intelligent Healthcare Systems	10.1201/9781003716686-9	SCOPUS (Dec 2025)
16	Mr. Anoop S Babu	Multimodal Media Creation: Integrating LLMs for High-Quality Video Generation	10.1007/978-3-032-06703-6_16	SCOPUS (Nov 2025)