Department of Information Science and Engineering

Staff Publications and Patents (2023-24 to 2025-26)

1. Publications

S.No	Year	Author(s)	Title	Journal / Conference Details
1	2023-24	Vivek T. Patil, Dr. Prashanta G. R., Dr. Rajashekar Kunabeva	Design & Development of Hybrid Algorithms for Glaucoma Detection in Humans – using Multi-Stage Discrete Wavelet Transform (3 Levels) & Principal Component Analysis	Journal of Basic Science Engineering (Q3), Vol. 21, No. 1, July 2024, ISSN: 1005-0930, https://doie.org/10.0824/Jbse.20243 33413
2	2023-24	Vivek T. Patil, Dr. Prashanta G. R., Dr. Rajashekar Kunabeva	Design & Development of Hybrid Algorithms for Glaucoma Detection in Humans – using Local Binary Pattern (LBP) & the Local Multi-Level Binary Pattern (LMBP)	Journal of Basic Science Engineering (Q3), Vol. 21, No. 1, Aug 2024, ISSN: 1005-0930, https://doie.org/10.0824/Jbse.20248 77383
3	2023-24	Shashidhar P. K., Thanuja T. C., Kunabeva R.	Adaptive RPL Routing Optimization Mode for Multimedia Data Transmission using IoT	Indian Journal of Science and Technology, 17(5): 436-450, 2024, ISSN: 0974-5645, https://doi.org/10.17485/IJST/v17i5 .2627
4	2023-24	Dr. Shivarajkum ar Hiremath	User Centric Auditing System for Cloud Data Security with Privacy Preserving and Data Dynamics	Advanced Engineering Science, Vol. 56, Issue 4, pp. 4591-4611, April 2024, ISSN: 2096-3246
5	2023-24	Dr. Shivarajkum ar Hiremath	An Effective Auditing Framework to Confirm Data Confidentiality and Integrity in Cloud Data Storage	Journal of Basic Science and Engineering, Vol. 21, No. 1, pp. 429-438, June 2024, ISSN: 1005-0930
6	2025-26	Mrs. Prathima Mahapurush	Artificial Intelligence Model for Precise Cervical Cancer Cell Boundary Denoising and Segmentation with Adaptive Wavelet-Spectral Enhancement	International Journal of Advances in Intelligent Informatics (Scopus-indexed, Q3), ISSN: 2442-6571

S.No	Year	Author(s)	Title	Journal / Conference Details
7	2025-26	Mrs. Prathima Mahapurush	Healthcare Cloud Portal: A Secure Patient-Doctor Information Management System	ICMRTET-2026, SKSVMACET, Laxmeshwar, 25–26 March 2026; Asian Journal of Convergence in Technology, Vol. XII, Issue I, pp. 342–343
8	2025-26	Mrs. Prathima Mahapurush	Recipe Explorer: An AI-Powered Personalized Recipe Recommendation System Using Google Gemini Generative AI	ICMRTET-2026, SKSVMACET, Laxmeshwar, 25–26 March 2026; Asian Journal of Convergence in Technology
9	2025-26	Mr. Ravikumar Chawhan, Dr. Parashuram Baraki	Stock Market Analysis and Forecasting using Machine Learning	ICMRTET-2026, SKSVMACET, Laxmeshwar, 25–26 March 2026; Asian Journal of Convergence in Technology, pp. 331–334
10	2025-26	Mr. Ravikumar Chawhan, Basavaraj M. Shirahatti, Ganesh B. Halkeri, Prajwal Kadadi, Rahul A. Kumbar	Waste Segregation through AI	ICMRTET-2026, SKSVMACET, Laxmeshwar, 25–26 March 2026; Asian Journal of Convergence in Technology, pp. 145–147
11	2025-26	Mr. Ravikumar Chawhan, Shivaraj Yaliwal, Akash P. Chandai, Iranna Jakkali, Puneet Akki	Edge AI for Real-Time Sign Language Translator	ICMRTET-2026, SKSVMACET, Laxmeshwar, 25–26 March 2026; Asian Journal of Convergence in Technology, pp. 151–153
12	2025-26	Mr. Ravikumar Chawhan, S. V. S. Padmini	Internet of Things (IoT) in Healthcare: Applications, Challenges, and Future Prospects	ICMRTET-2026, SKSVMACET, Laxmeshwar, 25–26 March 2026; Asian Journal of Convergence in Technology, pp. 59–61

S.No	Year	Author(s)	Title	Journal / Conference Details
13	2025-26	Mrs. Ashwini Gouripur, Ashwini Bhavi, Sujata Hadapad, Tanuja Patil, Madhushri S.	Fake News Detection Using Web Scraping	ICMRTET-2026, SKSVMACET, Laxmeshwar, 25–26 March 2026; Asian Journal of Convergence in Technology, pp. 148–150

2. Patents Published

	Year	Inventor	Title	Details
1	2023-24	Dr. Rajashekar Kunabeva	Safeguarding Power Grids with Fault-Tolerant Monitoring and Control	Published by Indian Patent Office on 14/06/2024, Application No. 202421037082
2	2023-24	Dr. Rajashekar Kunabeva	Advancing Electric Mobility with Smart Grid-Integrated Charging Solutions	Published by Indian Patent Office on 31/05/2024, Application No. 202421035965
3	2024-25	Dr. Rajashekar Kunabeva	Artificial Intelligence-Based Stress Detection Device	Design patent granted on 02/01/2025

3. Books Published

	Year	Author	Title	Details
1	2023-24	Dr. Rajashekar Kunabeva (Co-author)	Electric and Hybrid Vehicles	Published on 06/08/2024, ISBN: 978-93-341-0568-1
2	2025-26	Prof. Shambulingappa H S	Artificial Intelligence in Robotics: Building Intelligent and Smart Machines	Published by Leilani Katie Publication and PRESS, Madurai, November 2025, ISBN: 978-93-6348-891-5