

MKSSS's
 Cummins College of Engineering for Women, Pune
 (An Autonomous Institute Affiliated to Savitribai Phule Pune University)
 Department of Information Technology

JOURNAL PUBLICATION

Sr No	Title of the paper	Name of Journal	Name of the faculty member
2023-24			
1	A Multi-Classifer-Based Recommender System for Early Autism Spectrum Disorder Detection using Machine Learning,	Elsevier's Healthcare Analytics	Dr. Dipti Patil
2	Machine Intelligence Based Assessment of Nutritional Olfactory Features for Controlling Health Hazards Using Electronic Nose	Revista De Gestão Social E Ambiental,	Dr. Dipti Patil
3	An intelligent system with fuzzy-based inference engine for secured tele-robotic surgery	Elsevier's Healthcare Analytics	Dr. Dipti Patil
4	Predicting Sour or Sweet: Exploring Advance DL Methods for Odor Perception Based on Molecular Properties	International Journal of Intelligent Systems and Applications in Engineering	Dr. Dipti Patil
5	Game-based Teaching Methodology for Active and Informal Learning	JEET	Dr. Anagha Kulkarni
6	Real-Time Hazard-Free Planetary Landing using Deep Recurrent Neural Network	International Journal of Intelligent Systems and Applications in Engineering	Dr. Dipti Patil
7	A comprehensive survey on recommender systems techniques and challenges in big data analytics with iot applications	Revista De Gestão Social E Ambiental	Dr. Dipti Patil
8	Data analytics for finding emerging entrepreneur's success factors	Journal of Autonomous Intelligence	Dr. Dipti Patil
9	Facial Image Encryption and Compression for Secure Image Transmission on Cloud Storage	International Journal of Intelligent Systems and Applications in Engineering	Dr. Anagha Kulkarni
10	Employing Cumulative Rewards based Reinforcement Machine Learning for Personalized Music Recommendation	Springer journal Multimedia Tools and Applications	Dr. Makarand Velankar
11	Smart Stress Related Risk Assessment of Pregnant Woman Using Internet of Medical Things	International Journal of Intelligent Systems and Applications in Engineering	Dr. Dipti Patil

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Sr No	Title of the paper	Name of Journal	Name of the faculty member
12	Smart Fruit Identification and Counting using Machine Vision Approach	International Journal of Advanced Computer Science and Applications(IJACSA),	Dr. Dipti Patil
13	Comprehensive Survey on Agent Based Deep Learning Techniques for Space Landing Missions	International Journal of Intelligent Systems and Applications in Engineering	Dr. Dipti Patil
14	Game-based Teaching Methodology for Active and Informal Learning	JEET	Prajakta Deshpande
15	Effective speech recognition for healthcare industry using phonetic system	Journal of Autonomous Intelligence	Dr. Dipti Patil
2022-23			
16	Soft Landing Parameter Measurements for Candidate Navigation Trajectories using Deep Learning and AI-Enabled Planetary Descent	Mathematical Problems in Engineering	Dr. Dipti Patil
17	Intelligent Gesture Recognition System for Translating Indian Sign Language to English	Journal of University of Shanghai for Science and Technology	Dr. Anagha Kulkarni
18	Deep Learning Approach for Unmanned Aerial Vehicle Landing	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Dr. Dipti Patil
19	Survey On Different Methods Used to Track Maternal and Fetal Health During Pregnancy.	Journal of Pharmaceutical Negative Results,	Dr. Dipti Patil
20	A Comprehensive Survey on Methods and Techniques for Automated Fruit Plucking”,	Int J Intell Syst Appl Eng,	Dr. Dipti Patil
21	Knowledge discovery in time series data with contextual event identification.	Inderscience International Journal of Knowledge Engineering and Data Mining	Dr. Makarand Velankar
22	Evaluating Deep Learning Models for Music Emotion Recognition	International Journal of Engineering Applied Sciences and Technology	Dr. Makarand Velankar
23	A Systematic Problem Validation Framework for Startups and Entrepreneurs	AMC Indian Journal of Entrepreneurship	Dr. Makarand Velankar
24	Trust management system in Internet of Things: A survey.	International Journal of Safety and Security Engineering,	Dr. Dipti Patil

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Sr No	Title of the paper	Name of Journal	Name of the faculty member
25	An Augmented Reality Application to Enhance Visitor Experience	Grenze International Journal of Engineering and Technology	Prajakta Deshpande
2021-22			
26	Machine-to-Machine Communication for Device Identification and Classification in Secure Telerobotics Surgery	Hindawi, Security and Communication Networks	Dr. Dipti Patil
27	Secured energy efficient machine -to-machine communication for telerobotic system	Elsevier's Informatics in Medicine Unlocked	Dr. Dipti Patil
28	A comprehensive survey on investigation techniques of exhaled breath (EB) for diagnosis of diseases in human body	Elsevier's Informatics in Medicine Unlocked	Dr. Dipti Patil
29	Empirical Analysis of Feature Points Extraction Techniques for Space Applications	International Journal of Advanced Computer Science and Applications (IJACSA)	Dr. Dipti Patil
30	A Review on Advancements in Automated Plant Disease Identification	International Journal of Engineering and Technology Innovations	Radhika Bhagwat
31	Enhancing the energy efficiency by LEACH protocol in the internet of things	International Journal of Computational Science and Engineering (Inderscience)	Dr. Dipti Patil

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CONFERENCE PUBLICATION

Sr No.	Title of the paper	Name of the Conference	Name of the faculty member
2023-24			
1	IoT-Based Breath Analysis for Prediction of Rheumatism Using Bi-LSTM	International Conference On Computational Intelligence And Network Systems (CINS 2023)	Dr. Dipti Patil
2	Real-Time Clustering and Classification of Physiological Big Data for Healthcare Monitoring	IECON 2023- 49th Annual Conference of the IEEE Industrial Electronics Society, Singapore	Dr. Dipti Patil
3	Literature survey: Complaint Management System using Blockchain Technology	Smart Trends in Computing and Communications (SmartCom-2024)	Suchitra Morwadkar
4	Integrating Olfaction Technology and AI in Understanding Olfactory Dysfunction in Neurodegenerative Neuropsychiatric Disorders	IEEE- 2023 International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIHI)	Dr. Dipti Patil
5	ChatGPT's Evolution in Reshaping Cognitive Behavioral Therapy	IEEE Conference on Engineering Informatics (ICEI)2023.	Dr. Radhika Bhagwat
6	Banking on AI: Exploring the Transformative Role of ChatGPT in Financial Services	IEEE Conference on Engineering Informatics (ICEI) 2023.	Dr. Radhika Bhagwat
2022-23			
7	Content-Centric Prediction Model for Early Autism Spectrum Disorder (ASD) Screening in Children	6th International Conference on Information and Communication Technology for sustainable development ICT4SD 2021	Dr. Dipti Patil
8	Environment-Based Asthma Trigger Detection (ATD)	6th International Conference on Information and Communication Technology for sustainable development ICT4SD 2021	Leena Panchal
9	A Real-Time Driver Drowsiness Detection Using OpenCV, DLib	6th International Conference on Information and Communication Technology for sustainable development ICT4SD 2021	Leena Panchal

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Sr No.	Title of the paper	Name of the Conference	Name of the faculty member
10	A Comparative Analysis of Various Techniques of Data Leakage Detection in Different Domains	6th International Conference on Information and Communication Technology for sustainable development ICT4SD 2021	Harsha Sonune
11	Advances in Vision-Based UAV Maneuvering Techniques.	International Symposium on Intelligent Informatics. ISI 2022.	Dr. Dipti Patil
12	Study of NFT Marketplace in the Metaverse	International Conference on Data Management, Analytics & Innovation (ICDMAI 2023)	Leena Panchal
13	A Review Paper on Employee Management System	International Conference on Business Innovation & Sustainability: A Roadmap for Business Excellence	Radhika Bhagwat
14	Pix2Pix Generative Adversarial Network with ResNet for Document Image Denoising	IEEE	Prajakta Deshpande
15	Patch-Based Autoencoder for Document Image Denoising with Smoothing	ICT Infrastructure and Computing ICT4SD	Prajakta Deshpande
16	Troomate—Finding a Perfect Roommate a Literature Survey	International Conference on Data Management, Analytics & Innovation	Prajakta Deshpande
17	Graphology-Based Behavior Prediction: Case Study Analysis	International Conference on Data Management, Analytics & Innovation (ICDMAI 2023)	Harsha Sonune
2021-22			
18	An Augmented Reality Application to Enhance the Shopping Experience of Electronic Appliances	2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON)	Suchitra Morwadkar
19	Crater and Boulder Classification using Convolutional Neural Networks	2nd International Conference on Emerging Trends and Innovations in ICT (ICEI)	Dr. Dipti Patil
20	Family of Friends- A hostel utility system	6th International Conference on Information and Communication Technology for sustainable development ICT4SD 2021	Prajakta Deshpande
21	Automated Gate System Using Number Plate Recognition (NPR)	6th International Conference on Information and Communication Technology for sustainable development ICT4SD 2021	Harsha Sonune

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Sr No.	Title of the paper	Name of the Conference	Name of the faculty member
22	Gamification by students: An effective approach to cyber security Concept learning	NCPHE-2022: National Conference on Pedagogy for Higher Education ,MKSSS's Cummins College of Engineering For Women (CCEW), Pune, India, June 25, 2022	Dr. Sneha Thombre
23	Quantitative analysis of comprehension and skill acquisition of engineering students from the cyber security virtual internship program	NCPHE-2022: National Conference on Pedagogy for Higher Education ,MKSSS's Cummins College of Engineering For Women (CCEW), Pune, India, June 25, 2022	Dr. Sneha Thombre
24	Purchase Request Management System	2021 International Conference on Computational Performance Evaluation (ComPE). IEEE, 2021	Dr. Sneha Thombre
25	Literature review on Sign Language Generation	7th International Conference on Data Management, Analytics and Innovation (ICDMAI)	Dr. Anagha Kulkarni
26	Literature review on Machine Translation Systems for Sign Language Generation	7th International Conference on Data Management, Analytics and Innovation (ICDMAI)	Dr. Anagha Kulkarni
27	Literature Survey: Indoor Navigation Using Augmented Reality	7th International Conference on Data Management, Analytics and Innovation (ICDMAI)	Suchitra Morwadkar
28	Literature Survey: Navigation System for Visually Impaired People	7th International Conference on Data Management, Analytics and Innovation (ICDMAI)	Suchitra Morwadkar

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FACULTY AWARDS

Sr No.	Faculty Name	Type	Remarks	Awarding Agency
2022-23				
1	Dr. Anagha Kulkarni	International	EduTech Leadership Award	World Education Congress
2	Dr. Dipti Patil	National	Incredible Female inventor-2023 award by 9Magnetec IP and Research	9Magnetec IP and Research
3	Dr. Dipti Patil	International	Listed as "Change Maker" by World Intellectual Property Organization (WIPO)	https://www.wipo.int/web/ipday/wipd-gallery-nominee-profile?profileId=1550528
2021-22				
1	Dr. Anagha Kulkarni	International	WE Local 2022 Outstanding Professional Development Award	SWE
2	Makarand Velankar	National	Gold Global Jury Award 2021	Wadhvani Foundation
3	Dr. Dipti Patil	International	International Best Researcher Award- ISSN Awards" in the field of security in telerobotics surgery by IIRA 2022	ISSN International Research Awards 2022 (IIRA-2022)

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PATENTS (A.Y 2023-24, 2022-23, 2021-22)

Sr No.	Faculty Name	Patent Title	Application no/Patent No.	Type of Patent	Date Applied	Date Granted	Status
1	Madhura Tokekar	System And Method for Facilitating Electronic Voting Using Blockchain	202021030124	National	15 July 2020	15 May 2024	Granted
2	Dr. Dipti Patil	Ai-MI Enabled Iot Based System for Tender Coconut Shell Waste Management	202321053552	National	Aug 9, 2023	—	Applied
3	Dr. Dipti Patil	IoT based Breath Analyzer	202221043464	National	Jul 29, 2022	Mar 8, 2024	Granted
4	Dr. Dipti Patil	Piezoelectric Sensors Integrated Hand Gesture Recognition Device	201821012736	National	Mar 4, 2018	Apr 15, 2024	Granted
5	Dr. Dipti Patil	Real Time Depression Detection and Analysis Using Multi-Parametric Fusion Approach	4093/mum/2015	National	Oct 29, 2015	Jun 25, 2024	Granted
6	Dr. Anagha Kulkarni	A System and A Method For Gesture Recognition Of Indian Sign Language	202321058486	National	Aug 31, 2023	—	Applied
7	Dr. Anagha Kulkarni	A System and Method For Enabling Navigation For Visually Impaired People	202321054893	National	Aug 16, 2023	—	Applied
8	Dr. Dipti Patil	System For Vision Based Self Decisive Planetary Hazard Free Landing of a Space Vehicle	202221051791	National	Oct 9, 2022	Mar 27, 2023	Granted
9	Dr. Dipti Patil	Trust Computation Based secured telerobotic surgery	202121038225	National	Aug 24, 2021	—	Applied and published

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10	Dr. Dipti Patil	An internet of Things enabled food and drugs supply chain management using blockchain	2021107272	International	Aug 25, 2021	Sep 12, 2021	Granted
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Sr No.	Faculty Name	Copyright Title	Application no/Copyright No.	Date Applied	Date Granted	Diary Number
1	Dr. Dipti Patil	Autonomous Fruit Harvesting using Intelligent Learning Technique	L-137534/2023	—	Aug 12, 2023	—
2	Dr. Dipti Patil	Spacecraft Simulator	SW-16619/2023	Mar 8, 2023	Jun 15, 2023	6057/2023-CO/SW
3	Dr. Dipti Patil	vJUD Lunar Landing Dataset	L-126136/2023	Mar 6, 2023	Jun 15, 2023	5890/2023-CO/L
4	Dr. Dipti Patil	Contextual Content-Centric Social Network based Recommender System	L-108863/2021	Sep 23, 2021	Mar 11, 2021	23444/2021-CO/L
5	Dr. Dipti Patil	Block diagram Of Lightweight Secured Telerobotic Surgery	L-111675/2022	Dec 30, 2021	Mar 2, 2022	32021/2021-CO/L
6	Dr. Dipti Patil	Qos Aware Secured Access Control Algorithm For M2m Communication In Internet Of Things	L-112596/2022	Dec 30, 2021	Feb 28, 2022	31973/2021-CO/L
7	Dr. Dipti Patil	Block Diagram Of Secured Telerobotic Surgery	L-112005/2022	Aug 30, 2021	Feb 21, 2022	20721/2021-CO/L
8	Dr. Dipti Patil	Non-Invasive Method For Health Analysis Using Intelligent Learning Technique	L-114630/2022	Oct 2, 2022	Apr 23, 2022	2975/2022-CO/L

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9	Dr. Dipti Patil	Multi-Classifer Based Recommender System For Early Screening Of Autism Spectrum Disorder (Asd) For Patients Using Machine Learning Techniques	L-115902/2022	Mar 14, 2022	May 23, 2022	5665/2022-CO/L

RESEARCH GRANTS (A.Y 2023-24, 2022-23, 2021-22)

Sr No.	Faculty Name	Status	Type	Title of Research	Sponsoring agencies	Amount (in Lakhs Rs.)	Duration in no. of years	Sanctioned Date
1	Suchitra Pakale, Dr. Anagha Kulkarni	Sanctioned	Major	Blockchian applicability	MAN Truck and Bus Pvt. Ltd.	13.96	2	Mar 18,2024
2	Dr. Sneha Thombre	Sanctioned	Major	AR/VR	Boeing	12.39	—	October 2023
3	Dr. Dipti Patil	Completed	Major	Design of accurate & efficient machine learning autonomous algorithm for guidance & navigation of space landing mission	ISRO-SPPU	11	2	Jul 26, 2021

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4	Dr. Anagha Kulkarni	Completed	Major	Indian Sign Language Recognition and Translation using Deep Learning and Natural Language Processing	IBM	11.91	2	June 2020-June 2022
5	Dr. Dipti Patil	Submitted	Major	Smart IOT Based End to End Biodegradable Waste Management Technology	DST	34.86	3	—