

DEPARTMENT OF INFORMATION TECHNOLOGY

INTERNATIONAL JOURNALS

Sr. No	Academic Year	Title of the paper	Name of Journal	Name of the faculty Member
1.	2021-22	Machine-to-Machine Communication for Device Identification and Classification in Secure Telerobotics Surgery	Hindawi, Security and Communication Networks	Dr. Dipti Patil
2.	2021-22	Secured energy efficient machine -to-machine communication for telerobotic system	Elsevier's Informatics in Medicine Unlocked	Dr. Dipti Patil
3.	2021-22	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
4.	2021-22	Empirical Analysis of Feature Points Extraction Techniques for Space Applications	IJACSA	Dr. Dipti Patil
5.	2021-22	A Review on Advancements in Automated Plant Disease Identification	International Journal of engineering and Technology Innovations	Radhika Bhagwat
6.	2021-22	Enhancing the energy efficiency by LEACH protocol in the internet of things	International Journal of Computational Science and Engineering (Inderscience)	Dr. Dipti Patil
7.	2020-21	Hardening web browser security configuration using machine learning technique	International Journal of Electronic Business	Dr. Harshad Wadkar
8.	2020-21	Comprehensive Multilayer Convolution Neural Network for Plant Disease Detection	International Journal of Advanced computer science and applications	Radhika Bhagwat
9.	2020-21	Digital Representation Techniques For Olfactory Features	IT in Industry,	Dr. Dipti Patil
10.	2020-21	Tracking Keypoints from Consecutive Video Frames Using CNN Features for Space Applications	Technical Journal	Dr. Dipti Patil
11.	2020-21	IoT Based System for Detection of Sewage Blockages	IT in Industry,	Dr. Dipti Patil

12.	2020-21	In-house Object Detection System for Visually Impaired	International Journal of Future Generation Communication and Networking	Dr.Dipti Patil
13.	2020-21	Emergence and Convergence of AI, Blockchain and IOT	International Journal of Future Generation Communication and Networking	Dr.Dipti Patil
14.	2020-21	Network Performance Measurement through Machine to Machine Communication in Tele-Robotics System	Technical Journal	Dr.Dipti Patil
15.	2020-21	Melodic pattern recognition in Indian classical music for raga identification	Springer International Journal of Information Technology	Makarand Velankar
16.	2020-21	Multimodal Sentiment Analysis of Nursery Rhymes for Behavior Improvement of Children	Journal of university of shanghai for science and Technology	Makarand Velankar
17.	2020-21	Performance Evaluation of Different ASR Classifiers on Mobile Device	International Journal of Next-Generation Computing	Dr. Dipti Patil
18.	2020-21	Smart Cervix Monitoring of Pregnant Women	International Journal of Next-Generation Computing	Dr. Dipti Patil
19.	2020-21	Device Classification for machine to machine communication in internet of things for telerobotic surgery: A review	Indian Journal of computer science and engineering	Dr. Dipti Patil
20.	2020-21	Fake News Detection System	International Research Journal of Engineering and Technology (IRJET)	Harsha Sonune
21.	2020-21	Leaf disease detection system using deep learning: a review	International journal of advance scientific research & engineering trends	Milind Kolambe
22.	2020-21	Family of Friends- A Hostel Utility System	International Research Journal of Engineering and Technology(IRJET)	Prajakta Deshpande
23.	2020-21	A Framework for Crop Disease Detection Using Feature Fusion Method	International Journal of Engineering and Technology Innovations	Radhika Bhagwat

24.	2019-20	Real time multimodal depression analysis	International Journal of Innovative Technology and Exploring Engineering	Dr. Dipti Patil
25.	2019-20	Performance Based Adaptive Personalized eLearning System	International Journal of Recent Technology and Engineering	Dr. Dipti Patil
26.	2019-20	Evaluation of Phonetic System for Speech Recognition on Smartphone	International Journal of Innovative Technology and Exploring Engineering	Dr. Dipti Patil
27.	2019-20	A new optimized recurrent feedback deep convolutional neural net for image super resolution	International Journal of Recent Technology and Engineering	Dr. Dipti Patil
28.	2019-20	Security Threats In M2M Framework Of IoT	International Journal of Advanced Science and Technology	Dr. Dipti Patil
29.	2019-20	Melodic pattern recognition of songs based on raga music for content based music retrieval	International Journal of Information Technology and Electrical Engineering	Makarand Velankar
30.	2019-20	Thematic Context Derivator Algorithm for Enhanced Context Vector Machine : ECVM	International Journal of Engineering and Advanced Technology (IJEAT)	Makarand Velankar
31.	2019-20	Delay and jitter sensitivity analysis with varying TCP fraction for multiplexed internet communications	Inderscience International Journal of Internet Protocol Technology (IJIPT) Inderscience	Sneha Thombre
32.	2019-20	Design and performance analysis of link-by-link congestion avoidance algorithm	International Journal of Communication Networks and Distributed Systems(IJCNDS)	Sneha Thombre

33.	2018-19	Enhanced e-Learning Experience using Case based Reasoning Methodology	International Journal of Computer Science and Applications	Dr. Dipti Patil
34.	2018-19	Implementation of Efficient Speech Recognition System on Mobile Device for Hindi and English Language	International Journal of Computer Science and Applications	Dr. Dipti Patil
35.	2018-19	Multi-Perspective Analysis of News Articles using Machine Learning Algorithms	International Journal of Computer Applications	Makarand Velankar
36.	2018-19	Effect of multiplexing TCP flows on delay sensitivity in the internet communications	Springer CCF Transaction on Networking	Sneha Thombre

INTERNATIONAL CONFERENCES

Sr. No.	Academic Year	Title of the paper	Name of the Conference	Name of the faculty Member
1.	2021-22	Crater and Boulder Classification using Convolutional Neural Networks	2nd International Conference on Emerging Trends and Innovations in ICT (ICEI)	Dr. Dipti Patil
2.	2021-22	Family of Friends- A hostel utility system	6th International Conference on Information and Communication Technology for sustainable development ICT4SD 2021	Prajakta Deshpande
3.	2021-22	An Augmented Reality Application to Enhance the Shopping Experience of Electronic Appliances	2021 IEEE 4 th International Conference on Computing, Power and Communication Technologies (GUCON)	Suchitra Morwadkar
4.	2020-21	Freeware Solution for Preventing Data Leakage by Insider for Windows Framework	International Conference on Computational Performance Evaluation (ComPE- 2020)	Sneha Thombre
5.	2020-21	Blockchain Based e- voting protocol	5 th International Conference on ICT for sustainable development	Harsha Sonune
6.	2020-21	Architecture of E-Procurement System for Police Department	2020 International Conference on Information and Communication Technology Convergence (ICTC)	Sneha Thombre
7.	2020-21	Literature Survey: Application of Machine Learning Techniques for Static Sign Language Recognition	10th World Congress on Information and Communication Technologies (WICT 2020)	Dr. Anagha Kulkarni
8.	2020-21	Literature Survey: Sign Language Recognition using Gesture Recognition and Natural Language Processing	5th International Conference on Data Management, Analytics and Management (ICDMAI)	Dr. Anagha Kulkarni
9.	2020-21	Application of Deep Learning Techniques on Sign Language Recognition- A Survey	5 th International Conference on Data Management, Analytics and Management (ICDMAI)	Dr. Anagha Kulkarni
10.	2020-21	Attention-Based Visual Question Generation	3rd IEEE Conference on Emerging Smart Computing and Informatics 2021 (ESCI)	Dr. Anagha Kulkarni
11.	2020-21	Trust Computation Model for IoT Devices Using Machine Learning Techniques	Springer's First doctoral symposium on Natural computing research	Dr. Dipti Patil
12.	2020-21	Deep semantic classification of visual inputs for hazard free lunar landing	Global Space Exploration Conference GLEX 2021	Dr. Dipti Patil
13.	2020-21	A Pedagogical Adoption of Game Theory to Finance Technology in Big Data Analytics	2021 5th International Conference on Trends in Electronics and Informatics (ICOEI), 2021	Dr. Dipti Patil

14.	2019-20	Learning Preferences Analysis by Case-Based Reasoning.	Computing in Engineering and Technology. Advances in Intelligent Systems and Computing, vol 1025. Springer, Singapore, doi: https://doi.org/10.1007-978-981-32-9515-5_14 (SCOPUS Indexed)	Dr. Dipti Patil
15.	2019-20	5G Enabled Tactile Internet for Tele- Robotic Surgery	Third international conference on computing and network communications (CoCoNet'19)	Dr. Dipti Patil
16.	2019-20	Music emotion recognition for film music	ISMIR 2019	Makara nd Velankar
17.	2019-20	Wireless Sensor Networks Optimization using Machine learning to increase the network lifetime	Springer's International conference on Evolutionary computing and mobile sustainable networks (ICECMSN 2020)	Dr. Dipti Patil
18.	2019-20	An analytical survey on image compression	IEEE WorldS4, London, UK	Dr. Anagha Kulkarni
19.	2019-20	Secure Web Browsing using Trusted Platform Module (TPM)	Fourth International Conference on Information & Communication Technology For Intelligent Systems	Harshad Wadkar
20.	2019-20	Enabling smart waste management with sensorized garbage bins'	Young Scientists' Conference (YSC) as a part of India International Science Festival 2019	Leena Panchal
21.	2018-19	Detection of Hindi Textual Characters from an Image	ICCUBEA	Dr. Anagha Kulkarni
22.	2018-19	GPU Approach for Handwritten Devanagari Document Binarization	Smart Innovations in Communication and Computational Sciences	Dr. Anagha Kulkarni
23.	2018-19	Real-Time Meta Learning Approach for Mobile Healthcare	Smart Innovations in Communication and Computational Sciences. Advances in Intelligent Systems and Computing	Dr. Dipti Patil
24.	2018-19	A Framework for Identification of Soybean Leaf Diseases	Advanced Technologies for Societal Applications	Radhika Bhagwat
25.	2018-19	A Utility Tool for Personalized Medicine	Proceedings of the 2nd International Conference on Vision, Image and Signal Processing	Dr. Chetana Gavankar
26.	2018-19	Real time Facial Expression Recognition using Deep Learning	ICCIP, Talegaon- Dabhade	Dr. Anagha Kulkarni
27.	2018-19	Network Jitter Analysis with varying TCP for Internet Communications	2018 3 rd International Conference for Convergence in Technology (I2CT)	Sneha Thombre
28.	2018-19	Interface Implementation for Quantifying Information Spread on Social Networks	2018 IEEE 6th International Conference on MOOCs, Innovation and Technology in Education (MITE)	Sneha Thombre
29.	2018-19	Implementation of the RnSIR Model	IEEE 2018 Punecon	Sneha Thombre
30.	2018-19	A study of Vehicular parking system	International Conference on Intelligent Computing and Communication Technologies (ICICCT - 2019)	Leena Panchal

Faculty Awards

Sr .No.	Faculty Name	Type	Remarks	AY	Awarding Agency
1.	Dr. Anagha Kulkarni	International	SWE Outstanding Outreach Program	20-21	SWE
2.	Dr. Dipti Patil	International	vGHC 21 Scholarship	21-22	Anitab.org
3.	Dr. Anagha Kulkarni	International	WE Local 2022 Outstanding Professional Development Award	21-22	SWE
4.	Dr. Anagha Kulkarni	International	SWE Joint Professional/Collegiate Event	20-21	SWE
5.	Dr. Dipti Patil	University	Best Innovation award	20-21	SPPU
6.	Dr. Anagha Kulkarni	National	WE Local India Scholarship Program	19-20	SWE
7.	Dr. Anagha Kulkarni	International	WE Local Engaged Advocate	19-20	SWE
8.	Dr. Dipti Patil	University	Best Teacher Award of SPPU, Pune	19-20	SPPU
9.	Sneha Thombre	National	CSI Mumbai Best Faculty of Year	19-20	CSI
10.	Dr. Dipti Patil	National	Best Professor in Information Technology Award in Dewang Mehta National Education Awards	18-19	Dewang Mehta Foundation
11.	Dr. Dipti Patil	National	Selected as Member Board of Studies Information Technology, SPPU	18-19	SPPU
12.	Dr. Dipti Patil	National	Qualified as Indian Patent Agent	18-19	Indian Government

Faculty Patent

Sr. No.	Faculty Name	Patent Title	Application no/Patent No.	Type of Patent	Date Applied	Date Granted	Status
1	Madhura Tokekar	System and method of facilitating Electronic voting using blockchain	202021030124	National	15/07/2020	-	Published
2	Dr. Anagha Kulkarni	System for Translating Indian Sign Language into a Common Language and a method therefore	202021039523	National	12/09/2020	-	Applied
3	Dr. Dipti Patil	Method and Apparatus for wireless sensor network based intelligent framework for mobile real time health care system	329722	National	18/04/2011	20/1/2020	Granted
4	Dr. Dipti Patil	Trust Computation based secured telerobotic surgery	202121038225	National	24/08/2021	-	Published
5	Dr. Dipti Patil	An internet of Things enabled food and drugs supply chain management using blockchain	2021107272	International	25/08/2021	09/12/2021	Granted

Faculty copyrights

Sr. No.	Faculty Name	Copyright Title	Application no/Copyright No.	Date Applied	Date Granted	Status	Diary Number	Class or type of work
1	Dr.Dipti Patil	Contextual content-centric social network-based recommender system	L-108863/2021	23/09/2021	03/11/2021	Registered	23444/2021-CO/L	Literary/dramatic work
2	Dr.Dipti Patil	Block diagram of lightweight secured telerobotic surgery	L-111675/2022	30/12/2021	03/02/2022	Registered	32021/2021-CO/L	Literary/dramatic work the
3	Dr.Dipti Patil	Smart lunar landing for space vehicles using intelligent learning technique	L-102623/2021	13/03/2021	29/04/2021	Registered	6580/2021-CO/L	Literary/dramatic work
4	Dr.Dipti Patil	QOS aware secured access control algorithm for m2m communication in internet of things	L-112596/2022	28/02/22	30/12/2021	Registered	31973/2021-CO/L	Literary/dramatic work the block diagram
5	Dr.Dipti Patil	Block diagram of secured telerobotic surgery	L-112005/2022	21/02/2022	30/08/2021	Registered	20721/2021-CO/L	Literary/dramatic work the block diagram

Research Grants

Sr .No.	Faculty Name	Status	Type	Title of Research	Sponsor ing agencies	Amount (in Lakhs Rs.)	Durati on in no. of years	Date Sanction
1	Dr.Anagha Kulkarni	Sanctioned	Major	Indian Sign Language Recognition and Translation using Deep Learning and Natural Language Processing	IBM	11.91	2	June 2020- June 2022
2	Dr.Dipti Patil	Sanctioned	Major	Design of accurate & efficient machine learning autonomous algorithm for guidance & navigation of space landing missions	ISRO	11	2	August 2021- July 2023