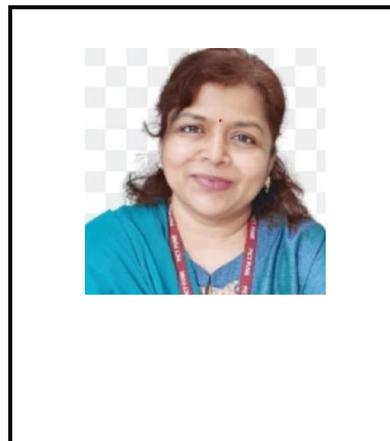


# Faculty Profile

Name Dr.Mousami Prashant Turuk  
Designation Assistant Professor  
Department Electronics & Telecommunication Engineering  
Email mpturuk@pict.edu  
Phone +91-9850711131



## Educational Qualifications

Degree	University/Institution	Year of Passing
Ph.D. (E&TC)	Sant Gadge Baba Amravati University, India.	2018
M.E. (Electronics)	<i>Walchand college of Engineering, Shivaji University, Kolhapur.</i>	2006
B.E. (Electronics)	<i>Shivaji University, Kolhapur.</i>	2000

## Professional Experience

Sr. No.	Designation & Institute	Duration
1	Assistant Professor in E&TC Department, PICT, Pune .	August 2006 - Present
2	<b>Lecturer</b> , Department of Electronics and Telecommunication Engineering, Pune Institute of Computer Technology, Pune, India	January 2003 - August 2006

## Research Publications

Sr. No.	Title	Publication/Conference
1	Continuous Word Level Sign Language Recognition using an Expert System Based on Machine Learning	R Sreemathy, MP Turuk, S Chaudhary, K Lavate, A Ushire, S Khurana International Journal of Cognitive Computing in

		Engineering 4, 170-178,2023
2	Sign language recognition using artificial intelligence	R Sreemathy, M Turuk, I Kulkarni, S Khurana Education and Information Technologies 28 (5), 5259-5278,2023
3	CNN based deep learning approach for automatic malaria parasite detection	M Turuk, R Sreemathy, S Kadiyala, S Kotecha, V Kulkarni IAENG Int. J. Comput. Sci 49 (3),2022
4	A novel reversible multiple medical image watermarking for health information system	MP Turuk, AP Dhande - Journal of medical systems, 2016
5	Real-time word level sign language recognition using YOLOv4	S Sharma, R Sreemathy, M Turuk, J Jagdale, S Khurana 2022 International Conference on Futuristic Technologies (INCOFT), 1-7
6	A novel texture-quantization-based reversible multiple watermarking scheme applied to health information system	M Turuk, A Dhande Journal of Digital Imaging 31, 167-177,2018
7	Indian Sign Language Recognition using Skin Segmentation and Vision Transformer	A Agarwal, R Sreemathy, M Turuk, J Jagdale, V Kumar 2023 IEEE 20th India Council International Conference (INDICON), 857-862
8	Indian Sign Language interpretation using convolutional neural networks	R Sreemathy, M Turuk, J Jagdale, A Agarwal, V Kumar,2023 10th International Conference on Signal Processing and Integrated Networks (SPIN)
9	Comparative Study and Performance Analysis of Deep Neural Networks for Sign Language Recognition using Transfer Learning	S Khurana, R Sreemathy, M Turuk, J Jagdale,2023 Third International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)

10	Interleaving Scheme for Medical Image Authentication	M Turuk, A Dhande, Emerging Research in Computing, Information, Communication and Applications: ERCICA 2015, Volume 3
11	Performance evaluation of frequency domain techniques for efficient storage of patient information with medical images	MP Turuk, AP Dhande, PP Kalgaonkar, 2014 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT)
12	Real-time indian sign language recognition using skeletal feature maps	V Kumar, R Sreemathy, M Turuk, J Jagdale, A Agarwal, 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)
13	Radar Cross Section Modelling and Analysis of Static and Dynamic Targets using MATLAB	Sreemathy R and Mousami Turuk Punam Pande, Journal of Aircraft and Spacecraft Technology, 2022
14	Cloth Pattern Recognition Using Machine Learning and Neural Network	SK Sreemathy R., M. P. Turuk, Malaysian Journal of Science and Advanced Technology (MJSAT), 2022
15	Sign Language Video Generation from Text Using Generative Adversarial Networks	R Sreemathy, P Chordiya, S Khurana, M Turuk, Optical Memory and Neural Networks. 2024
16	Indian Sign Language Recognition Using Video Vision Transformer	R Sreemathy, M Turuk, J Jagdale, M Anish, 2024 3rd International Conference for Advancement in Technology (ICONAT)
17	Advances in Machine Learning Techniques for Sign Language Interpretation	Piyush Jain, Neha Pattanshetti, Esha Hundekar, Mousami Turuk, Sakshi Hosamani, 9th International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2024) held at Jaipur, Rajasthan, India 19 - 21 December 2024.
18	Latest Trends on Satellite Image Segmentation	<b>Turuk M.P.</b> , Borkar, S., Chidrawar, K., ...Naik,

		S., Vaijapurkar, V.B, Lecture Notes in Networks and Systems 968 LNNS, pp. 141-155,2024
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### Conferences / Seminars Attended

Sr. No.	Conference/Seminar	Year
1	IEEE 20th India Council International Conference (INDICON).	2023

### Books Published

Sr. No.	Title	Publisher & Year
1	AI in the Social and Business World: A Comprehensive Approach Chapter Name: Traffic Sign Detection and Recognition using Convolutional Neural Networks Authors: R Sreemathy*, Mousami Turuk, Harsh Patil, Saurabh Shastri, Ninad Lele, Soumya Khurana	Bentham Science Publishers,2024
2	Encyclopedia of Data Science and Machine Learning”, Chapter Name: AI for Emotion Recognition Authors: Mousami Turuk, Sreemathy R, Shardul Khandekar, Soumya Khurana Published- ISBN10: 1799892204	IGI Global, Oct-22

### Areas of Interest

Sr. No.	Area
1	Image Processing
2	Health Information System
3	Data Science(Machine Learning, Deep Learning)
4	Biomedical Image Analysis