



Annapurna Mishra

Name : Annapurna Mishra

Designation : Sr. Assistant Professor

Department : Department of Electronics and Communication Engineering

(JOINED THE INSTITUTE IN 2010)

Contact : +919861151252 (M)

Email : annapurna.mishra@silicon.ac.in, &
annapurnamishra12@gmail.com

RESEARCH INTERESTS

Biometric Image Processing and Machine Learning

- ✓ Fingerprint Image Analysis
- ✓ Feature extraction of Real-time fingerprint data
- ✓ Classification of fingerprints into different classes using Machine Learning Approaches

Academic Qualifications

Ph.D (Continuing) in Information and Communication Technology, F.M University, Balasore

M. Tech in Electronics and Communication Engineering, BPUT, Odisha, India.

B. Tech in Electronics and Tele-communication Engineering, BPUT, Odisha, India.

Specialisation: Image Processing

Teaching Experience/Industrial Experience/Research Experience

- Teaching experience: 15 years
- Research experience: 7 years (ph.D at F. M. University, Balasore)

PUBLICATIONS

JOURNAL & CONFERENCES

1. Mishra, Annapurna, and Satchidananda Dehuri. "An experimental study of filter bank approach and biogeography-based optimized ANN in fingerprint classification." In *Nanoelectronics, Circuits and Communication Systems*, pp. 229-237. Springer, Singapore, 2019.
2. Mishra, Annapurna, and Satchidananda Dehuri. "Fingerprint Classification by Filter Bank Approach Using Evolutionary ANN." In *Cognitive Informatics and Soft Computing*, pp. 343-351. Springer, Singapore, 2019. (Scopus Indexed)
3. Mishra, Annapurna, and Satchidananda Dehuri. "Fingerprint Classification by Filter Bank Approach Using Biogeography Based Optimized Functional Link ANN." In *Proceedings of 2018 International Conference on Applied Electromagnetics, Signal Processing and Communication (AESPC)*, vol. 1, pp. 1-3. IEEE, 2018.
4. Mishra, Annapurna, Satchidananda Dehuri, and Pradeep Kumar Mallick. "Classification of Real Time Noisy Fingerprint Images Using Flann." In *International Conference on Biologically Inspired Techniques in Many-Criteria Decision Making*, pp. 62-68. Springer, Cham, 2019.
5. Mishra, Annapurna, and Satchidananda Dehuri. "Real-time online fingerprint image classification using adaptive hybrid techniques." *International Journal of Electrical and Computer Engineering* 9, no. 5 (2019): 4372. (Scopus Indexed)
6. Mishra, Annapurna, and Satchidananda Dehuri. "A Novel Hybrid FLANN-PSO Technique for real Time Fingerprint Classification." *Medico-Legal Update* 19, no. 2 (2019): 740-746. (Scopus Indexed)
7. Mishra, Annapurna, Monorama Swain, and Bodhisattva Dash. "An Approach to Face Recognition Of 2-D Images Using Eigen Faces and PCA." *Signal & Image Processing* 3, no. 2 (2012): 143.
8. A Mishra, N Singh, B Dash," An approach to Fractal image compression based on iteration", *International Journal of Modern Engineering Research, IJMER*, 2012.
9. A Mishra, N Modi," Fingerprint Recognition usin Local and Globbal Structures" *IJIREICE*, March, 2016.

10. A Mishra, Abhishek Mishra, Madhusmita Panda ,” Fingerprint Classification and Matching using Self Organizing Feature Map”, *International Journal of Modern Engineering Research*, April,2016.
11. Kanungo, Guru Kalyan, Nalini Singh, Judhisthir Dash, and Annapurna Mishra. "Mammogram image segmentation using hybridization of fuzzy clustering and optimization algorithms." In *Intelligent Computing, Communication and Devices*, pp. 403-413. Springer, New Delhi, 2015.
12. Ray, Abhishek, Nivedita Mahapatra, Soumya S. Das, and Annapurna Mishra. "Iris Recognition Using Gabor Filter and SURF Feature Detection Technique." *IUP Journal of Information Technology* 14, no. 2 (2018): 53-61.
13. Mishra, Annapurna, Niharika Modi, and Monika Panda. "Biometric Identification (Analysis Based on Fingerprints and Faces)." In *Progress in Advanced Computing and Intelligent Engineering*, pp. 27-38. Springer, Singapore, 2018.

ANY OTHER

Book Chapter
Conferences attended