



POONAM NIRAJ SONAR

Ph. D Pursuing (since 2014)

M.Tech. Electronics & Telecommunication, Mumbai University

B.E. Electronics & Telecommunication, Mumbai University

EmailId : poonam.sonar@mctrgit.ac.in

Designation : Assistant Professor in Electronics & Telecommunication Department.

Experience : Educational- 12 Years

: Research and Development on DRDO Sponsored Project at IIT Bombay-2.3Years

Date of Joining : 21st July 2008

Areas of Interest : Signal Processing and Image Processing

Publications: Journal:

1. **Poonam Sonar ,Udhav Bhosle** “Optimization of association Rule mining for mammogram classification” is published in International Journal of image processing (IJIP), Vol. 11, Issue 3,2017
2. **Poonam Sonar ,UdhavBhosle, Chandrajit Choudhury ,”** Mammography Classification using modified Hybrid SVM_KNN” is selected for presentation and publication in,” IEEE International Conference on Signal Processing and Communication (ICSPC’17)
3. Ravindra Sonawane ,**Poonam sonar, Surendra Sutar**“Classification Of MRI Brain Tumor and Mammogram Images Using Learning Vector Quantization Neural Network “International Conference on Sensing, Signal Processing and security (ICSSS 2017),4th-5th May 2017,Chenni.
4. **Poonam Sonar, Udhav Bhosle, Sumit Anuse and Mandar Bandodekar,**” Mammogram Classification with Optimized Association rules using Multi Objective Genetic Algorithm with Adaptive Mutation and Crossover” at International Conference on Computing Communication and signal processing –ICCSP-2016 July 2016.
5. Vijay Wasule ,**PoonamSonar,**“Classification of Brain MRI using SVM and KNN classifier”, IEEE International Conference on Sensing, Signal Processing and security (ICSSS 2017),4th-5th May 2017,Chenni.
6. Ravindra Sonawane, **PoonamSonar,**“Classification and Segmentation of Brain Tumor Using Adaboost Classifier” International Conference on Global Trends in Signal Processing, Information Computing and Communication (ICSPICC 2016) ,22 – 24 December 2016
7. **Poonam Sonar, DeeptiJadhav, Udhav Bhosle ,** “Optimization of Association rules using objective function for mammography image classification”, IEEE International Conference on Communication and Signal Processing, Chennai (ICCSP2016), 6-8 April 2016.
8. **Poonam Sonar, Udhav Bhosle,**”Optimized Association Rules for MRI Brain Tumor Classification”, at 3rd 2016 International Conference on “Computing for Sustainable Global Development”, 16th– 18th March, 2016, Bharati Vidyapeeth’s Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA)
9. **Poonam Sonar ,UdhavBhosle, Chandrajit Choudhury ,”** Mammography Classification using Hybrid SVM_KNN” IEEE International conference on Computer Graphics ,Vision and Information

Security.(CGVIS)

10. AkshayThokale; Poonam Sonar; “Hybrid Approach to Detect a Fire based on Motion Color and Edge” CiiT International Journal of Digital Image Processing, Print: ISSN 0974 – 9691 & Online: ISSN 0974 – 9586, Vol 7, No 9 (2015)

11. AkshayThokale; Poonam Sonar; “Hybrid Approach to Detect a Fire based on Motion Color and Edge” CiiT International Journal of Digital Image Processing, Print: ISSN 0974 – 9691 & Online: ISSN 0974 – 9586, Vol 7, No 9 (2015)

12. AkshayThokale, Poonam Sonar; “Review on Vision Based Fire Flame Detection” International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, Issue 9, September 2015, ISSN(Online) :2319-8753, ISSN (Print) : 2347-6710 DOI:10.15680/IJIRSET.2015.0409046

National:

1. **Poonam Sonar** ,“Pixel based image registration and its application to Image Mosaicing“, is presented at National Conference on wired and Wireless Commutation (2008), and organized by SIES School of information technology, Nerul, Navi Mumbai, Maharashtra.

Research and Development: Co_ Investigator for Research Project Proposal on” Multispectral Data mining” submitted to AICTE in Jan 2017

Interaction with Professional Institutions:

STTPs

- Attended an ISTE approved one week short term training program on “Software Tools in Electronics and Telecommunication Engineering”, during 15-19 Dec.2008 Mumbai.
- Five day QIP Short Term Course on “Introduction to Geographic Information systems and Applications” Conducted by IIT Bombay during May 25-29, 2009.
- Five day QIP Short Term Course on “Matlab and its applications” conducted by PVPCOE during Jan13-17 2010
- Five day QIP Short Term Course on” SCILAB” conducted by IIT, Bombay during Jan3-7 2012

Workshops

- Attended a National workshop on Digital Signal Processing and its application to communication (July 2006) organized by RAIT, Nerul, Navi Mumbai.
- Successfully completed a National workshop organized by Wipro on “High Impact Teaching Skills” at SPIT, during 24-25 Nov 2008.
- Coordinated and attained three days National Workshop on “Advances in Signal Processing & Applications” at Rajiv Gandhi Institute of Technology, Versova, Andheri(W), Mumbai, during 19-21 January 2011.
- Participated in Research Scholars and alumni symposium at IIT Bombay during 7th and 8th March 2014.

Conferences :

- Attended an International Conference on Wireless Communication (2008) organized by IMC.

Responsibilities

- Teaching :Subjects Taught: signals and systems, Principle of communication ,Discrete time signal Processing ,Digital Image and video Processing
- Signal Processing Lab In charge
- M.E. Coordinator
- Secretary for Women Development Cell
- M.E. Project Guide: Two Completed and four ongoing
- Class Advisor
- Co-coordinator for National workshop on “Advances in signal Processing and Applications (Nwaspa Additional -2011)”,January 2011.
- Secretary for Woman Development Cell
- Coordinator for Orientation Program for Signals and Systems, Sem(IV) CBSGS course on EXTC ,organized by Board of Studies in EXTC engineering ,University of Mumbai at RGIT,on January

3rd 2014.

- Coordinator for Orientation Program for Digital image and Video Processing, Sem(VII) CBSGS course on EXTC ,organized by Board of Studies in EXTC engineering ,University of Mumbai at RGIT,on July 3rd 2015.

Awards/Recognition

- Received best paper award for “Mammography Classification hybrid SVM KNN classifier “ IEEE International conference on IEEE International Conference on Signal Processing and Communication (ICSPC'17)

References

- Dr. S.N. Merchant, Electrical Department, IIT Bombay.
 - Dr. U. V. Bhosle, Principal, RGIT, Mumbai.
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