RESUME

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Educational Qualification

S.No.	Degree	Year	Subject	University/Institution	% of Marks
1.	B.E.	1997	Electronics and Communication Engineering	Govt. College of Technology, Coimbatore	First Class
2.	M.E	2004	Power Electronics & Industrial Drives	Sathyabama University	I Rank (Gold Medal)
3.	Ph.D	2011	Image Processing Techniques for on-line weld	Sathyabama University	

Sponsored Research Projects

S.No.	Sponsoring Agency	Investigators	Sanctioned Amount	Status
1	BRFST	**Dr. B.Sheela Rani/ Dr.N.M.Nandhitha** Fusion Of IR Thermography And Visible Images Using Stockwell Transform IPR/NFP/2011/AUG/N/01 dt 25-08-11	Rs 22,73,000/-	Completed
2	BRFST	**Dr. B.Sheela Rani/ Dr.N.M.Nandhitha** Design of Neuro-Fuzzy Controller for Plasma Position Control in Aditya Tokamak IPR/NFP/2011/AUG/N/02dt 25-08-11	Rs.14,39,000/-	Completed
3	DST (TNSCST)	**Dr. B.Sheela Rani/ Dr.N.M.Nandhitha** Infrared Thermography for Monitoring and Rejuvenating temples,Rock Sculptures,Monuments and Traditional Buildings DST/SSTP/TN/11/141 dt 13-09-11	Rs.13,03,200/-	Completed

4	BRNS	**Dr. B.Sheela Rani/ Dr.N.M.Nandhitha** Wavelet Analysis for defect characterization in welded joints from ultrasonic signals and Radiographic Images 2011/36/39-BRNS/1980 dt 19/11/2011	Rs.23,41,375/-	Completed
5	DST	**Dr. B.Sheela Rani/ Dr.N.M.Nandhitha** Development of on-line monitoring system for preventing weld defects in Automated Gas Tungsten ARC welding by infrared Thermography and digital Radiography SR/S3/ME/0048/2010 dt 11/06/2012	Rs.25,97,617/-	Completed
6	BRFST	**Dr. B.Sheela Rani/ Dr.N.M.Nandhitha** Design of signal analysis Techniques for Determining the Parameters Responsible for Plasma Disruptions in AdityaTokamak 39/10/2015 – BRNS dt 24-07-15	Rs.9,39,500/-	completed

PUBLICATIONS

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2. Muthiah, M.A., Logashanmugam, E., Nandhitha, N.M. et al. Performance Evaluation of Conventional CNN Architectures and Modified ALEXNET for the Classification of Potatoes by Thermal Imaging. Russ J Nondestruct Test 56, 718–726 (2020). https://doi.org/10.1134/S1061830920090077
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4. Rajasekar, B.,Logashanmugam, E., Nandhitha, N.M.," Computationally simpler and fast convergence algorithm for neural network based Ldpc encoder/ decoder", International Journal of Scientific and Technology ResearchVolume 8, Issue 8, August 2019, Pages 1575-1579
5. Sudheera, K., Nandhitha, N.M." Computer Aided Radiograph Interpretation Tool for Defect Characterization from Weld Plates", Russian Journal of NondestructiveTestingVolume 55, Issue 6, 1 June 2019, Pages 481-488 ,DOI: 10.1134/S1061830919060081,Sathyabama University, citation 3 (self -2,other 1)
6. Sudheera, K., Nandhitha, N.M., Venkatesh, N., Jayanth, D.," Weld flaw characterization in ultrasonic testing from discrete Walsh Hadamard transform co-efficient", International

Journal of Advanced Science and TechnologyVolume 28, Issue 13, 4 November 2019, Pages 440-450, Sathyabama Institute of Science and Technology,

7. Selvarasu, N., Jayanthi, P., Sadineni, S., Vinayini, D., Nandhitha, N.M., EmaldaRoslin, S., Chakravarthi, R., Sangeetha, M.S.," Correlation analysis of asymmetry and non-uniformity in breast thermographs for abnormality classification",Biomedicine (India)Volume 38, Issue 2, April-June 2018, Pages 166-172, Sathyabama Institute of Science and Technology,

8. Roseline, J.F., Nandhitha, N.M.," Design of linear plasma position controllers with intelligent feedback systems for AdityaTokamak", International Journal of Electrical and Computer EngineeringVolume 8, Issue 5, October 2018, Pages 2904-2909, citation 2, others 2,DOI: 10.11591/ijece.v8i5.pp.2904-2909

9. Thaj Mary Delsy, T., Nandhitha, N.M., Sheela Rani, B." Feasibility of spectral analysis techniques for disruption analysis in Adityatokamak", International Journal of Engineering and Technology(UAE)Volume 7, Issue 4, Oct 2018, Pages 3843-3846

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12. Vedanarayanan, V., Nandhitha, N.M.," Advanced image segmentation techniques for accurate isolation of abnormality to enhance breast cancer detection in digital mammographs", Biomedical Research (India)Volume 28, Issue 6, March 2017, Pages 2753-2757

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14. Roseline, J. Femila ; Nandhitha, N. M ; "Feasibility of Soft Computing Techniques in Predicting Plasma Position in AdityaTokamak", Journal of Computational and Theoretical Nanoscience, Volume 13, Number 11, November 2016, pp. 9057-9063(7), DOI: 10.1166/jctn.2016.6337, Sathyabama University

15. Mohana Nanda Kishore, B., Chaitanya Reddy, S., Emalda Roslin, S., Nandhitha, N.M.," Spectral domain denoising technique for effective removal of noise in medical images , Test Engineering and Management,2020

16. Rajasekar, B., Vijayendra Gowtham Reddy, T., Imam, S., Nandhitha, N.M.," Implementation of soft computing techniques for low density parity check codes decoders "Test Engineering and Management,2019

17. Nandhitha, N.M., Rekha Chakravarthi, Adeline Sneha, J.," Automated pest detection and control using acoustic signal in wireless sensor network ",International Journal of Advanced Science and Technology,2019

18. V.Balamurugan, Dr.N.M.Nandhitha, "Feasibility of Less Complex Viterbi Decoder Based on Neural Networks for Effective Transmission of Medical Images", Contemporary Engineering Sciences, Hikari Ltd, Vol. 8, 2015, no. 22, 1013 – 1019

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Plasma Disruptions in AdityaTokamak",9th International Conference on Computing, Communication and Networking Technologies, ICCCNT 201816 October 2018, Sathyabama Institute of Science and Technolog,DOI: 10.1109/ICCCNT.2018.8494147

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