



Centre/School/Special Centre: SoS Engg & Tech

Department: ECE Dept

Phone: 9425280114

Email: anitadhawan0308@gmail.com

Personal Webpage Link: NIL

Name: Anita Khanna

Qualifications: ME

Area of Interest/Specialization: Image processing, deep learning

Experience: 21 yrs

Awards and Honors: NIL

Research Projects: NIL

International Collaboration/Consultancy: NIL

Best Peer Reviewed Publication (up-to 10):

1. Khanna Anita, Sood Meenakshi, Swapna Devi, "US Image Segmentation Based on Expectation Maximization and Gabor Filter", International Journal of Modelling and Optimization (IJMO), 2012 Vol. 2(3): 230-233 ISSN: 2010-3697.
2. Sood Meenakshi, Khanna Anita, Pattnaik Shyam Sundar, "Performance of controllable Triangular Split Structure Metamaterial: Journal of Electrical and electronics Engineering", Volume 5, Number 1, May 2012.
3. Deman Kosale, Anita Khanna, "Modified Variable Step size normalized least square Algorithm in the context of Acoustic Echo Cancellation", IJSCE, Vol-2, Issue-5, Nov. 2012.

4. Deman Kosale, Anita Khanna, "Performance, monitoring and analysis of OWC Link at different atmospheric conditions", IJSCE, Vol-2, Issue-5, Nov 2012.
5. Khanna, A., Londhe, N. D., Gupta, S., & Semwal, A. (2020). A deep Residual U-Net convolutional neural network for automated lung segmentation in computed tomography images. *Biocybernetics and Biomedical Engineering*, 40(3), 1314–1327. <https://doi.org/10.1016/j.bbe.2020.07.007>
6. Khanna, A., Londhe, N. D., & Gupta, S. (2020). Automated localized approach for airway segmentation in 3D chest CT volume. *Biomedical and Pharmacology Journal*, 13(4), 1671–1682. <https://doi.org/10.13005/BPJ/2042>

Recent Books/Book Chapters/Monographs etc.

1. Khanna, A., Londhe, N. D., & Gupta, S. (2019). *Automatic lung segmentation and airway detection using adaptive morphological operations. Advances in Intelligent Systems and Computing* (Vol. 748). Springer Singapore. https://doi.org/10.1007/978-981-13-0923-6_30. (Book Chapter).

Research Supervision: NIL

Administrative Responsibilities:

1. **NAAC Committee member 2004**
2. **Member of Building committee**
3. **Member of Tender committee**
4. **University Engineer from 2009 to 2014**

Additional Information:

1. Peer reviewer in technical committee of 3rd International Conference on Computer Technology and Development (ICCTD), Nov 25-27,2011 at Chengdu, China.
2. Session chair at CIICS, American University of Sharjah, Mar 13-15 2016, Sharjah, UAE.