

Publications in SCOPUS database

1. Neeraj Kumar, Raubin Kumar, **Govind Murmu**, Prabira Kumar Sethy, "Extraction of melody from polyphonic music using modified Morlet wavelet," *Microprocessors and Microsystems*, vol.80, article-103612, 2021. (**Ranking Q3, 2019**)
2. Gyan Prakash Mishra, Dharmendra Kumar, Vijay Shanker Chaudhary, and **Govind Murmu**, "Cancer cell detection by a heart-shaped dual-core photonic crystal fiber sensor," *Appl. Opt.*, vol. 59, issue 33, pp.10321-10329 (2020).
<https://doi.org/10.1364/AO.409221> (**Ranking Q3, 2019**)
3. Vivek Kumar and **Govind Murmu**, "Comparative Study of Wavelets for Image Compression with Embedded Zerotree Algorithm," *Lecture Notes in Electrical Engineering*, vol.470, pp.163-171, 2018.
4. **G. Murmu**, S. Bhattacharya, "Real time performance evaluation of transform domain NLMS audio predictors", *Far East journal of Electronics and Communications*, vol.17(5), pp.1153-1166, 2017.
5. **G. Murmu**, S. Bhattacharya, "A novel blind source separation algorithm using Bussgang criterion and natural gradient," *Indian Journal of Science and Technology*, vol.9(39), pp.1-9, 2016.
6. A. Singh. **G. Murmu** and B. B. Sharma, "Adaptive online frequency estimation of sinusoid with unknown frequency," *Procedia Technology (Elsevier)*, vol.4, pp.482-486, 2012.

----- International conference -----

1. Preeti Topno, **Govind Murmu**, "An Improved Edge Detection Method based on Median Filter," accepted in *3rd International Conference on Devices for Integrated Circuit (DevIC)*, Kalyani, India, 2019.
2. Ajit Kumar, Rakesh Ranjan and **Govind Murmu**, "Study of Some Beamforming Algorithms," accepted in *2nd International Conference on Communication, Devices and Computing (ICCDC)*, Haldia, India, 2019.
3. Mayank Gupta and **Govind Murmu**, "Experimental Study of Fading using Alamouti Space-Time Block Code," in *Proc. IEEE International Students' Conference on Electrical, Electronics and Computer Sciences (SCEECS)*, MANIT Bhopal, India, 2018.
4. Richa Mishra, **Govind Murmu**, "Transform Domain Adaptive Orthogonal Frequency Division Multiplexing Beamforming System," in *Proc. International*

Conference on Telecommunication, Power Analysis and Computing Techniques (ICTPACT), Chennai, India, 2017.

5. Pravin Yadav, **Govind Murmu**, “Study and Hardware Implementation of JPEG Algorithm on C6713DSK,” in Proc. *IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, Chennai, India, pp-505-508, 2016.
6. Abhishek Mukherjee, **Govind Murmu**, “A Novel Sub-band Filtering Based LMS Adaptive Algorithm for Acoustic Echo Cancellation,” in Proc. *International Conference on Electrical, Electronics and Optimization Techniques (ICEEOT)*, pp-1690-93, 2016.
7. **Govind Murmu**, Subrata Bhattacharya, Nehal Tare, “A Transform Domain LMS Audio Coder,” in Proc. *IEEE National Conference on Communications(NCC)*, IIT Kharagpur, India, 2012.
8. **Govind Murmu**, Subrata Bhattacharya, “A Comparative Study of Different Wavelets used in Transformed Domain LMS filter,” in Proc. *IEEE 8th Annual India Conference (INDICON)*, Hyderabad, India, 2011.
9. Swati Katwal, Ravinder Nath, **Govind Murmu**, “A Simple Kalman Channel Equalizer using Adaptive Algorithms for Time Variant Channel,” in Proc. *International Conference on Signal Processing, Communication, Computing and Networking Technologies (ICSCCN)*, Thuckalay, India, 2011.
10. **Govind Murmu**, Ravinder Nath, “Convergence Performance Comparison of Transform Domain LMS Adaptive Filters for Correlated Signal,” in Proc. *International Conference on Devices and Communications (ICDeCom)*, Ranchi, India, 2011.
11. Alaka Barik, **Govind Murmu**, Tarkeshwar Prasad Bhardwaj, Ravinder Nath, “LMS Adaptive Multiple Sub-Filters Based Acoustic Echo Cancellation,” in Proc. *International Conference on Computer and Communication Technology (ICCCT)*, MANIT Bhopal, India, 2010.