



Dr. Manas Ranjan Jena – Ph. D.

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Department : ECE
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RESEARCH INTERESTS

- Wireless Communication
- Antenna Design Technology

Academic Qualifications

- Ph. D. (Planar Antenna Design, ECE, VSSUT Burla, Odisha, India.
- M. Tech. (ECE) VSSUT Burla, Odisha, India.

Teaching Experience/Industrial Experience/Research Experience

Teaching Experience – 19 years+

Research Experience – 12 years

PUBLICATIONS

JOURNALS

1. Manas Ranjan Jena, Sanjana Sahoo, Guru Prasad Mishra, and B. B. Mangaraj, "Miniaturized Band Notched Printed LPDA Design with Meander Fractal Dipole for UWB Communication", International Journal of Electronics, Taylor and Francis, April 2020. (SCI and Scopus Indexed Journal). Print ISSN: 0020-7217 Online ISSN: 1362-3060. 108(1), 21-24, 2021.
2. Manas Ranjan Jena, Guru Prasad Mishra, Amiya Bhusan Sahoo, and B. B. Mangaraj, "An Improved Sierpinski Fractal MIMO Array Antenna with Enhanced Isolation for Next Generation Wireless Applications", International Journal on Emerging Technologies, 11(3), 240-246, May 2020. (Scopus Indexed Journal). ISSN NO. (Print) : 0975-8364, (Online): 2249-3255.
3. Manas Ranjan Jena, Guru Prasad Mishra, Amiya Bhusan Sahoo, and B. B. Mangaraj, "Fractal Geometry and Its Application to Antenna Designs", International Journal of Engineering and Advanced Technology (IJEAT), Volume-9, Issue-1, 3726-3743, October 2019. (Scopus Indexed Journal). 2249-8958 (online).
4. Amiya B. Sahoo, Guru P. Mishra, Manas R. Jena, B. B. Mangaraj, "Optimal Design and Comparative Study of Circular Patch Antennas Using Different Feeds for WLAN and WiMAX Applications", International Journal on Communications Antenna and Propagation (I.Re.C.A.P.), Vol. 6, N. 3, ISSN 2039 – 5086, June 2016. (Scopus Indexed Journal).

5. Biswa Binayak Mangaraj, Manas Ranjan Jena and Saumendra Kumar Mohanty, "Bacteria Foraging Algorithm in Antenna Design", Hindawi Publishing Corporation Applied Computational Intelligence and Soft Computing, Volume 2016, Article ID 5983469, Jan 2016, <http://dx.doi.org/10.1155/2016/5983469>. (SCI and Scopus Indexed Journal). 1687-9724 (Print) 1687-9732 (Online).
6. Manas Ranjan Jena¹, B.B.Mangaraj², Debasis Mishra³, "Bandwidth & Gain Enhancement of Multiband Fractal Antenna Based On the Sierpinski Carpet Geometry", ICTACT Journal On Communication Technology, Vol: 04, Issue: 01, 669-674 March 2013., ISSN Number (Print)0976-0091 ISSN Number (Online) 2229-6948 (UGC Care). [HTTP://DOI.ORG/10.21917/IJCT.2013.0095](http://doi.org/10.21917/IJCT.2013.0095)
7. Sanjana Sahoo, Guru Prasad Mishra, Manas Ranjan Jena, Biswa Binayak Mangaraj, "Sub-sectional Tapered Printed- LPDA Design with WLAN, WiMAX Notch Bands for UWB Communication System", Chapter 82, Springer Science and Business Media LLC, 2020. (Scopus Indexed) DOI:[10.1007/978-981-13-8461-5_82](https://doi.org/10.1007/978-981-13-8461-5_82), https://link.springer.com/chapter/10.1007/978-981-13-8461-5_82 (Scopus indexed book chapter).
8. Rajiv Pathak, Sushil Kumar, Manas Ranjan Jena, "Implementation of smart antenna by optimizing linear patch array antenna, International journal of new innovations in engineering & technology, Volume-5, Issue-1, May-2016.(Peer Reviewed Journal).
9. Sovana Biswal¹, Santwana Mohapatra², Subhalaxmi Jena³, Manas Ranjan Jena⁴, "Design & Analysis of Rectangular Microstrip Patch Array Antenna for Ism Band Applications", International Journal of Microwave Engineering & Technology, Vol 2, Issue 1, May 2016.(Peer Reviewed Journal).
10. Nishant Kumar, Ashutosh Kumar Pandey, Aditya Prakash, Shiv Mani Kumar, Rupali Bihari, and Manas Ranjan Jena, "Design & Analysis of a Novel Rectangular Microstrip Patch Antenna with Improved Performance Using MATLAB for Pervasive Wireless Applications." Wireless and Mobile Technologies, vol. 2, no. 1 (2014): 7-11. doi: 10.12691/wmt-2-1-2. (Peer Reviewed Journal).

11. Manas Ranjan Jena, B.B. Mangaraj, and Rajiv Pathak, "Design of a Novel Sierpinski Fractal Antenna Arrays Based on Circular Shapes with Low Side Lobes for 3G Applications." American Journal of Electrical and Electronic Engineering, vol. 2, no. 4 (2014): 137-140. doi: 10.12691/ajeee-2-4-3. (Peer Reviewed Journal).
12. Rajiv Pathak¹, Manas Ranjan Jena², B.B. Mangaraj³, "Performance Analysis of Patch Array as a Smart Antenna", International Journal of Computer Science and Network, May 2014, Conference Proceeding – RDFCORDGE – 2014. (Peer Reviewed Journal).
13. Manas Ranjan Jena¹, B.B. Mangaraj², Rajiv Pathak³, "An Improved Compact & Multiband Fractal Antenna Using the Koch Curve Geometry", Wireless and Mobile Technologies, Vol. 2, No. 1, 1-6, June 2014. (Peer Reviewed Journal).
14. Manas Ranjan Jena¹, B.B. Mangaraj², Rajiv Pathak³, "A Novel Sierpinski Carpet Fractal Antenna with Improved Performances", American Journal of Electrical and Electronic Engineering, Vol. 2, No. 3, 62-66, March 2014. (Peer Reviewed Journal).
15. Manas Ranjan Jena¹, B.B. Mangaraj², Debasis Mishra³, "Bandwidth & Gain Enhancement of Multiband Fractal Antenna Based On the Sierpinski Carpet Geometry", ICTACT Journal On Communication Technology, Vol: 04, Issue: 01, March 2013. (UGC Care).

CONFERENCE PAPERS PRESENTED

1. Manas Ranjan Jena, Guru Prasad Mishra, and B. B. Mangaraj, "Microstrip Patch Antenna Design using Fractal Slot Geometries for Multiband and Wideband Applications," IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE), 27-28 July 2018, pp. 485-488, KIIT, Bhubaneswar, Odisha, India. DOI: [10.1109/ICRIEECE44171.2018](https://doi.org/10.1109/ICRIEECE44171.2018)

2. Manas Ranjan Jena, Guru Prasad Mishra, and B. B. Mangaraj, "An Improved Microstrip Patch Antenna Using Fractal Slot Geometries on Both Patch & Ground Plane for Multiband & Wideband Applications", IEEE International Conference on Applied Electromagnetics, Signal Processing and Communication (AESPC), 22-24 October 2018, KIIT, Bhubaneswar, Odisha, India.
DOI: [10.1109/AESPC44649.2018](https://doi.org/10.1109/AESPC44649.2018)
3. Guru P. Mishra, Manas R. Jena, B. B. Mangaraj, "Investigations on design and performance of Linear Cantor Array using strip dipole and V-dipole for UHF band application", <https://doi.org/10.1109/WISPNET.2016.7566452> 23-25, IEEE Conference International conference on Wireless communications, Signal processing & networks, March 2016.
DOI: [10.1109/WISPNET.2016.7566452](https://doi.org/10.1109/WISPNET.2016.7566452)
4. Jogesh Chandra Dash, Manas Ranjan Jena, and B. B. Mangaraj, "Analysis of Dipole Antenna and Its Array Using Finite Element Method", International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB16), IEEE, Feb, 2016.
DOI: [10.1109/AEEICB.2016.7538326](https://doi.org/10.1109/AEEICB.2016.7538326)
5. Amiya B. Sahoo¹, Suraj Ku. Jha², Manas Ranjan Jena³ and Saumendra Ku. Mohanty⁴ "Optimization of circular patch antenna at 5GHz using Firefly Algorithm" 2015 Fifth International Conference on Communication Systems and Network Technologies, 2015 IEEE Computer Society, DOI 10.1109/CSNT.2015.79, April 2015.