

Devasis Pradhan

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PERSONAL INFORMATION

Date and Birth of Place 27th January, 1985, Rourkela, Odisha, India
Nationality Indian

Skills Research Development, Teaching Strategies and usage of Modern Tools, Electronics System and Communication, Microwave & RF Engineering, Publication (conference, Journal, and book), Leadership and Management



EDUCATION

PhD MIMO Antenna Design for 5G Green Communication in the Department of Electrical Engineering, **National Institute of Technology, Rourkela, Odisha**
Supervisor – Prof(Dr.) Prasanna Kumar Sahu, Department of EE, National Institute of Technology, Rourkela, Odisha

M. Tech Design and Analysis of Micro strip Antennas For Ultra-Wide Band Applications, Department of Electrical Engineering, **National Institute of Technology, Rourkela, Odisha** with **CGPA -7.99/10**
Supervisor – Prof(Dr.) Prasanna Kumar Sahu, Department of EE, **National Institute of Technology, Rourkela, Odisha**

B. Tech Electronics & Telecommunication Engineering, Padmanava College of Engineering, Rourkela, Odisha with **CGPA – 7.43/10**

WORKING EXPERIENCE

Acharya institute of Technology, Bangalore

Designation: Assistant Professor -I

Duration: March 2017 to till date

Responsibilities

- Evaluate and grade students' class work, assignments, and papers as OBE.
- Prepare and deliver lectures to undergraduate or graduate students on topics such as Principle of Communication(Analog & Digital), Microwave Engineering/RF Engineering
- Initiate, facilitate, and moderate classroom discussions by opting online polling question, conducting quiz through Google form etc.
- Prepare course materials such as per syllabi, homework assignments, and handouts.
- Conduct research in a particular field of knowledge and publish findings in professional journals, books, or electronic media.
- Perform administrative duties such as serving as department research coordinator as well as HOD in charge.
- Supervise undergraduate or graduate teaching, internship, and research work.
- Write grant proposals to procure external research funding.
- Coordinate with academic or administrative committees that deal with institutional policies, departmental matters, and academic issues. Help department while maintaining NBA/NAAC file and well aware of whole procedure.

Padmanava College of Engineering, Rourkela, Odisha

Designation: Assistant Professor -I

Duration: August 2015- February 2017

- Confer with parents and staff to discuss educational activities, policies, and student behavioral or learning problems while acting as Head of the Department, ETE at PCE, Rourkela Odisha.
- Enforce discipline and attendance rules.
- Recruit, hire, train, and evaluate primary and supplemental staff.
- Prepare and submit budget requests and recommendations, or grant proposals to solicit program funding.
- Initiate, facilitate, and moderate classroom discussions.
- Prepare course materials such as per syllabi, homework assignments, and handouts.
- Collaborate with colleagues to address teaching and research issues.
- Perform administrative duties such as serving as department head.
- Serve on academic or administrative committees that deal with institutional policies, departmental matters, and academic issues.
- Participate in campus and community events.

Padmanava College of Engineering, Rourkela, Odisha

Designation: Assistant Professor -II

Duration: January 2010- July 2015

- Adapt teaching methods and instructional materials to meet students' varying needs and interests.
- Meet with parents and guardians to discuss their children's progress and to determine priorities for their children and their resource needs.
- Observe and evaluate students' performance, behavior, social development, and physical health.
- Evaluate and grade students' class work, assignments, and papers.
- Maintain student attendance records, grades, and other required records.
- Perform administrative duties such as serving as department in-charge.
- Handled subject for UG students - Digital Electronics, Field Theory, Microwave Engineering, Communication System, RF Circuit and Design.
- Serve on academic or administrative committees that deal with institutional policies, departmental matters, and academic issues.
- Supervise undergraduate or graduate teaching, internship, and research work.
- Participate in campus and community events.

Padmanava College of Engineering, Rourkela, Odisha

Designation: Lecturer

Duration: July 2007 -January 2010

- Maintain accurate and complete student records as required by laws or administrative policies.
- Prepare and administer written, oral, and performance tests, and issue grades in accordance with performance.
- Conduct classes, workshops, and demonstrations to teach principles, techniques, or methods in subjects such as basic electronics, image processing, signal processing etc;
- Observe students to determine qualifications, limitations, abilities, interests, and other individual characteristics.
- Write instructional articles on designated subjects.
- Attend meetings, educational conferences, and training workshops and serve on committees.
- Prepare materials and classrooms for class activities.

RESEARCH AREA AND EXPERTISE

1. **Electronics System & Communication** -Communication Engineering, Signal Processing, Image Processing
2. **RF Engineering**- Radio Propagation, Microwave Circuit Design, Microwave Devices, Antennas
3. **Modern Tool** -MATLAB 2018-21, CST2018, FEKO,HFSS

CONTRIBUTION - PUBLICATIONS

International Journal Publication(IJ)

1. **Devasis Pradhan (2016)** 'Exposure to Hazardous Effect of EM Radiation', *International Journal of Nuclear Engineering, Design and Radiation Technology*, 1(1 & 2), pp. 1-8. **(Web of Science Indexed)**
2. **Devasis Pradhan (2016)** 'Shoreline Wave Energy Converted to Electrical Energy with help of LIMPET Technology and its Assessment', *Journal of Renewable Energy and Resources*, 1(1 & 2), pp. 1-8. **(Web of Science Indexed)**
3. **Devasis Pradhan (2017)** 'Circular Patch with Circular Slit Patch Antenna used for Ultra Wide Band Application', *International Journal Of Electrical, Electronics And Data Communication*, ISSN: 2320-2084, 5(2), pp. 84-87. **(Web of Science Indexed)**
4. **Devasis Pradhan, Rabinarayan Panigrahi (2017)** 'Robust Digital Invisible Watermarking for Copyright Protection of Image using DCT (Discrete Cosine Transform)', *International Journal of Advances in Science Engineering and Technology*, ISSN: 2321-9009, 5(1), pp. 85-89. **(Web of Science Indexed)**
5. **Devasis Pradhan (2017)** 'Implementation of Invisible Digital Watermarking Technique for Copyright Protection using DWT-SVD and DCT', *International Journal of Advanced Engineering Research and Science (IJAERS)* ISSN: 2349-6495(P) | 2456-1908(O) , 4(7), pp. 63-69. **(Web of Science Indexed)**
6. **Devasis Pradhan (2017)** 'Invisible Digital Audio Watermarking using DWT-DCT based Transform', *IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)* ISSN: 2278-8735, 12(5), pp. 15-19 DOI: 10.9790/2834-1205021419. **(Web of Science Indexed)**
7. **Devasis Pradhan (2017)** 'Massive MIMO Technique used for 5th Generation System with Smart Antenna', *International Journal of Electrical, Electronics and Data Communication*, ISSN (p): 2320-2084, ISSN (e): 2321-2950 , 6(7), pp. 81-87. **(Web of Science Indexed & Publon)**
8. Subhash Chander Verma , Tejaswini T M, **Devasis Pradhan (2019)** 'Harmful Effects of 5G Radiations: Review', *International Journal of Industrial Electronics and Electrical Engineering*, ISSN(p): 2347-6982, ISSN(e): 2349-204X , 7(3), pp. 59-63. **(Web of Science Indexed & Publon)**
9. **Devasis Pradhan (2019)** 'Design of Extended Circular Patch with Rectangular Stub and Circular Slit Used For Ultra Wide Band Application(X-Band)', *IOSR Journal of Applied Physics (IOSR-JAP)* e-ISSN: 2278-4861, 11(4), pp. 14-24. **(Web of Science Indexed & Publon)**
10. Shaik Wasim S A, Saifulla, **Devasis Pradhan (2019)** 'Robust application of 3-D Printing in Healthcare', *International Advanced Research Journal in Science, Engineering and Technology* ISSN (Online) 2393-8021 ISSN (Print) 2394-1588, 6(8), pp. 14-23 DOI 10.17148/IARJSET.2019.6803 . **(UGC Indexed)**
11. Praneeth P Jain, Pradeep R. Pawar, Prajwal Patil, **Devasis Pradhan (2019)** 'Narrowband Spectrum Sensing in Cognitive Radio: Detection Methodologies', *International Journal of Computer Sciences and Engineering* E-ISSN: 2347-2693 , 7(11), pp. 105-113 DOI: [https:// doi.org /10.26438/ijcse/v7i11.105113](https://doi.org/10.26438/ijcse/v7i11.105113). **(Web of Science Indexed & Publon)**
12. **Devasis Pradhan , Priyanka K C (2019)** 'Effectiveness of Spectrum Sensing in Cognitive Radio toward 5G Technology', *Saudi Journal of Engineering and Technology* ISSN 2415-6272 (Print) |ISSN 2415-6264 (Online), 4(12), pp. 473-485 DOI: 10.36348/sjeat.2019.v04i12.001 . **(Web of Science Indexed & Publon)**
13. Pradeep R Pawar, Prajwal Patil, Praneeth P Jain, Manoranjan K V, **Devasis Pradhan (2020)** 'Comparative Analysis between Energy Detection Method and Matched Filter Detection for Spectrum Sensing in Intelligent Network Intended towards 3G/4G/VOLTE', *Studies in Indian Place Names* SSN: 2394-3114 , 40(74), pp. 583-596. **(Web of Science Indexed & Publon)**
14. Pradeep R Pawar, Prajwal Patil, Praneeth P Jain, Manoranjan K V, **Devasis Pradhan (2020)** 'Performance Analysis of Energy Detection Method in Spectrum Sensing Using Static & Variable Threshold Level for 3G/4G/VoLTE', *Saudi Journal of Engineering and Technology* ISSN 2415-6272 (Print) |ISSN 2415-6264 (Online), 5(4), pp. 173-178 DOI: 10.36348/sjet.2020.v05i04.007 . **(Web of Science Indexed & Publon)**
15. **Devasis Pradhan, Priyanka K C (2020)** 'RF-Energy Harvesting (RF-EH) for Sustainable Ultra Dense Green Network (SUDGN) in 5G Green Communication', *Saudi Journal of Engineering and Technology* ISSN 2415-6272 (Print) |ISSN 2415-6264 (Online, 5(6), pp. 258-264 DOI: 10.36348/sjet.2020.v05i06.001. **(Web of Science Indexed & Publon)**
16. Prajwal Patil, Pradeep R Pawar, Praneeth P Jain, Manoranjan K V, **Devasis Pradhan (2020)** 'Enhanced spectrum sensing based on Cyclo-stationary Feature Detection (CFD) in cognitive radio network using Fixed & Dynamic Thresholds Levels', *Saudi Journal of Engineering and Technology* ISSN 2415-6272 (Print) |ISSN 2415-6264 (Online), 5(6), pp. 271-277 DOI: 10.36348/sjet.2020.v05i06.003. **(Web of Science Indexed & Publon)**
17. Shivika Srivastava, Shivansh Rai, Shashi Kumar, Shippu Bhuhsan, **Devasis Pradhan (2020)** 'IoT based Human Guided Smart Shopping Cart System for Shopping Center', *Saudi Journal of Engineering and*

Technology ISSN 2415-6272 (Print) |ISSN 2415-6264 (Online), 5(6), pp. 278-284 DOI: 10.36348/sjet.2020.v05i06.004 .(Web of Science Indexed & Publon)

18. **Devasis Pradhan, Priyanka K C (2020)** 'A Comprehensive Study of Renewable Energy Management for 5G Green Communications: Energy Saving Techniques and Its Optimization', *Journal of Seybold Report* ISSN NO: 1533-9211, 25(10), pp. 270-284.(Scopus & Web of Science Indexed)
19. **Devasis Pradhan, A Dash (2020)** 'An Overview of Beam Forming Techniques Toward the High Data Rate Accessible for 5G Networks', *International Journal of Electrical, Electronics and Data Communication*, ISSN(p): 2320-2084, ISSN(e): 2321-2950 , 8(12), pp. 1-5.(Web of Science Indexed & Publon)
20. Kalukhe Siddhesh Vikas Susmita, Kailas, **Devasis Pradhan (2020)** 'A Comprehensive Study on Firewall for IOT Devices, Policies, and Security Issues.', *International Journal of Industrial Electronics and Electrical Engineering*, ISSN(p): 2347-6982, ISSN(e): 2349-204X, 8(12), pp. 1-5.(Web of Science Indexed & Publon)
21. Shivam, Yadav, Prashant Kumar, Ravi Kumar Singh, Vivek Raj, **Devasis Pradhan (2021)** 'A Detail Survey of Channel Access Method for Cognitive Radio Network (CRN) Applications toward 4G', *South Asian Research Journal of Engineering and Technology* ISSN 2664-4150 (Print) & ISSN 2664-794X (Online) , 3(1), pp. 31-41 DOI: 10.36346/sarjet.2021.v03i01.005.(Web of Science Indexed & Publon)
22. Prathviraj Khande, Yogesh K. B, Manu M. M, Ravikiran G. N, **Devasis Pradhan (2021)** 'An overview of Algorithms for Adaptive Beam Forming (ABF) for Smart Antenna System (SAS)', *South Asian Research Journal of Engineering and Technology* ISSN 2664-4150 (Print) & ISSN 2664-794X (Online) , 3(1), pp. 23-30 DOI: 10.36346/sarjet.2021.v03i01.004.(Web of Science Indexed & Publon)
23. **Devasis Pradhan (2021)** 'Effectiveness of Outcome Based Education (OBE) toward Empowering the Students Performance in an Engineering Course', *Journal of Advances in Education and Philosophy* ISSN 2523-2665 (Print) |ISSN 2523-2223 (Online), 5(2), pp. 58-65 DOI: 10.36348/jaep.2021.v05i02.003.(Web of Science Indexed & Publon)
24. Kalukhe Siddhesh Vikas Susmita, Kailas, **Devasis Pradhan (2021)** 'Portable Firewall for Data Security toward Secured Communication', *East African Scholars Journal of Engineering and Computer Sciences* ISSN: 2617-4480 (Print) & ISSN: 2663-0346 (Online) , 4(4), pp. 41-45 DOI: 10.36349/easjecs.2021.v04i04.002 .(Web of Science Indexed & Publon)
25. Prathviraj Khande ,Yogesh K. B ,Manu M. M ,Ravikiran G. N ,**Devasis Pradhan** , (2021) " Comparative Analysis of Adaptive Beam Forming (ABF) Algorithms for Smart Antenna System (SAS) " , *International Journal of Advance Computational Engineering and Networking (IJACEN)* , pp. 13-21, Volume-9,Issue-7(Web of Science Indexed & Publon)
26. Shivam Yadav ,Prashant Kumar ,Ravi Kumar Singh ,Vivek Raj ,**Devasis Pradhan** , (2021) " Comparative Analysis of BER and PAPR for OFDM, OFDM-CDMA, OFDM-MC-CDMA & OFDM-IDMA Systems " , *International Journal of Advance Computational Engineering and Networking (IJACEN)* , pp. 6-12, Volume-9,Issue-7(Web of Science Indexed & Publon)
27. Oo, W. M., Yangon, M., **Pradhan, D.**, Tun, H. M., Sahu, P. K., Nway, T. M., & Naing, Z. M. (2020). Design, Analysis and Fabrication of Dual Band Microstrip Patch Antenna for (L2) Band GPS and WiFi Applications. *Journal of Electromagnetics and Applications*. Vol, 8(1), 28-32.(Scopus & Web of Science Indexed)
28. Tun, H., Kyu Win, K., Naing, Z., Pradhan, D., & Sahu, P. (2021). Measurement Analysis of Specific Absorption Rate in Human Body Exposed to a Base Station Antenna by Using Finite Difference Time Domain Techniques. *Semiconductor Science and Information Devices*, 3(2). doi:<https://doi.org/10.30564/ssid.v3i2.3861>(Scopus & Web of Science Indexed)
29. Tun, H., Nwe, M., Naing, Z., Latt, M., Pradhan, D., & Sahu, P. (2022). Research on Self-balancing Two Wheels Mobile Robot Control System Analysis. *Electrical Science & Engineering*, 4(1), 7-20. doi:<https://doi.org/10.30564/ese.v4i1.4398>(Scopus & Web of Science Indexed)
30. Pradeep R Pawar ,Prajwalpatil ,Praneeth P Jain ,Manoranjana K V ,**Devasis Pradhan** ,A. Dash , (2022) " Comparative Study Between Energy Detection Method and Matched Filter Detection for Spectrum Sensing in Intelligent Network Intended Towards 3g/4g/Volte. " , *International Journal of Electrical, Electronics and Data Communication (IJEEDC)* , pp. 15-21, Volume-10,Issue-1 (Web of Science & Publon Indexed)
31. **Pradhan D.**, Sahu P.K., Rajeswari, Tun H.M. (2022) A Study of Localization in 5G Green Network (5G-GN) for Futuristic Cellular Communication. In: Sikdar B., Prasad Maity S., Samanta J., Roy A. (eds) Proceedings of the 3rd International Conference on Communication, Devices and Computing. Lecture Notes in Electrical Engineering, vol 851. Springer, Singapore. https://doi.org/10.1007/978-981-16-9154-6_43 (Scopus & Web of Science Indexed)

32. Brijesh, G. V. S., Naveen, N., Chaurasiya, A., Teja, N., & Pradhan, D. (2022). Detection of SAR and Penetration Depth of EM waves on Human body with respect to Cellular 4G/LTE Base Stations. *Asian Journal for Convergence in Technology (AJCT) ISSN-2350-1146*, 8(2), 09-14.
33. Pradhan, D., Tun, H. M., & Dash, A. K. (2022). IoT: Security & Challenges of 5G Network in Smart Cities. *Asian Journal For Convergence In Technology (AJCT) ISSN-2350-1146*, 8(2), 45-50.
34. Sinha, H. K., Kumar, A., Saurabh, A., & Pradhan, D. (2022). Comparative analysis of PAPR using PTS and SLM reduction techniques for 5g communication system. *Asian Journal For Convergence In Technology (AJCT) ISSN-2350-1146*, 8(2), 51-56.
35. Pradhan, D., Dash, A., Tun, H. M., Wah, N. K. S., & Oo, T. (2022). Improvement of Capacity and QoE: Distributed Massive MIMO (DM-MIMO) Technology-5G. In *Journal of Network Security Computer Networks* (Vol. 8, Issue 3, pp. 9–17). MAT Journals. <https://doi.org/10.46610/jonscn.2022.v08i03.002>
36. Dash, A., Pradhan, D., Tun, H. M., & Naing, Z. M. (2022). m-MTC for Optimized Communication in 5G. In *Journal of Network Security Computer Networks* (Vol. 8, Issue 3, pp. 1–8). MAT Journals. <https://doi.org/10.46610/jonscn.2022.v08i03.001>
37. Dash, A., Pradhan, D., Tun, H. M., & Naing, Z. M. (2022). Integration of AI to Enhance 5G Capabilities in Smart Cities. In *Journal of Image Processing and Artificial Intelligence* (Vol. 8, Issue 3, pp. 14–20). MAT Journals. <https://doi.org/10.46610/joipai.2022.v08i03.003>
38. Pradhan, D. & Tun, H. M. (2022). Security Challenges: M2M Communication in IoT. *Journal of Electrical Engineering and Automation*, 4(3), 187-199. doi:10.36548/jeea.2022.3.006
39. Pradhan, D., Dash, A., Tun, H. M., Wah, N. K. S., & Oo, T. (2022). A Sustainable Key Enabler for mm-Wave Beamforming in 5G Environment. In *Journal of VLSI Design and Signal Processing* (Vol. 8, Issue 3, pp. 10–17). MAT Journals. <https://doi.org/10.46610/jovdsp.2022.v08i03.002>
40. Pradhan, D., Ray, S., & Dash, A. (2022). A Critical Review on Sustainable Development of Green Smart Cities (GSCs) for Urbanization. In *Journal of Alternative and Renewable Energy Sources* (Vol. 8, Issue 3, pp. 21–29). MAT Journals. <https://doi.org/10.46610/joares.2022.v08i03.003>
41. Pradhan, D. (2022). Online Teaching Training Pedagogy (OTT-P) for Higher Education Faculties: Approaches and its Importance. In *Journal of Information Technology and Sciences* (Vol. 8, Issue 3, pp. 12–26). MAT Journals. <https://doi.org/10.46610/joits.2022.v08i03.003>
42. Behera, M., Pradhan, D., & Majumder, T. (2023). Energy Efficient Routing Protocol For Manet: FF-AOMDV. *Journal Of Data Acquisition And Processing*, 38(2), 360.
43. Himanshu K S, Abhishek S, Anand K, Devasis P. PAPR Detection Using TR and Clipping & Filtering (CF)-Reduction Technique for 5G Communication System (5G-CS): Comparative Analysis. *Eng Technol Open Acc.* 2023; 5(2): 555656. DOI: [10.19080/ETOAJ.2023.05.555656](https://doi.org/10.19080/ETOAJ.2023.05.555656)
44. Devasis P, Atul V, Simerpreet S. A Critical Review on Challenges and Limitations in Artificial Intelligence-Based e-Health Applications. *Eng Technol Open Acc.* 2023; 5(1): 555654. DOI: [10.19080/ETOAJ.2023.05.555654](https://doi.org/10.19080/ETOAJ.2023.05.555654)
45. Pradhan, D., & Tun, H. M. (2023). Circular-MSPA: Design and Analysis of Applications Intended for 5G Environment. In *Journal of Network Security Computer Networks* (Vol. 9, Issue 1, pp. 14–19). MAT Journals. <https://doi.org/10.46610/jonscn.2023.v09i01.002>
46. Tun, H. M., Pradhan, D., Behera, M., Nwe, M. S., Aye, S. M., Mon, A. T., & Naing, Z. M. (2023). Development of Square Patch Microstrip Antenna Design by Using Three Dimension Finite Difference Time Domain Methods. *Journal of Novel Engineering Science and Technology*, 2(03), 83-88.
47. Tun, H. M., Wulansari, R. E., Pradhan, D., & Naing, Z. M. (2023). Design, fabrication and measurement of metal-semiconductor field effect transistor based on zinc oxide material. *Journal of Engineering Researcher and Lecturer*, 2(3), 104-111.
48. Khuntia, A., Dharshini R, D., R, M., Aditya, K., Pradhan, D., & Atmok, R. A. (2023). Energy-Efficiency for 5G Networks with MIMO System. In *Journal of Network Security Computer Networks* (Vol. 9, Issue 3, pp. 26–38). MAT Journals. <https://doi.org/10.46610/jonscn.2023.v09i03.004>
49. Swe, H. M. T., Khin, E. E., Soe, K. T., Win, L. L. Y., Tun, H. M., & Pradhan, D. (2024). Analysis of Third-Generation Solar Cell Design with Physics of Semiconductor. *Journal of Novel Engineering Science and Technology*, 3(02), 31-37.
50. Oo, N., Aye, M. M., Oo, T., Win, L. L. Y., Tun, H., & Pradhan, D. (2024). Analysis of Electromyography (EMG) Signal Processing with Filtering Techniques. *Journal of Novel Engineering Science and Technology*, 3(02), 41-45.
51. Zaw, K. K., Khin, E. E., Oo, T., Pradhan, D., & Tun, H. M. (2024). Compact design of circularly polarized

- microstrip patch antenna with double slip ring resonator for vehicle-to-vehicle communication. *Journal of Engineering Researcher and Lecturer*, 3(1), 1-17.
52. Pradhan, D., Behera, M., & Gheisari, M. (2024). Dynamic Data Placement Strategy with Network Security Issues in Distributed Cloud Environment for Medical Issues: An Overview. In *Recent Advances in Computer Science and Communications* (Vol. 17). Bentham Science Publishers Ltd. <https://doi.org/10.2174/0126662558285372240109113226>
 53. Tin Swe, H. M., Hla Myo Tun, Pradhan, D., Win, L. L. Y., Khin, E. E., & Soe, K. T. (2024). Development of Novel Solar Cell Design based on Current Energy Converted from Phonon Energy by Controlling the Phonon Transport. *Journal of Novel Engineering Science and Technology*, 3(03), 107–112. <https://doi.org/10.56741/jnest.v3i03.626>
 54. Zaw, K. K., Khin, E. E., Oo, T., Hla Myo Tun, & Pradhan, D. (2024). Compact Design of 1x2 MIMO Microstrip Patch Antenna with Corners Trimmed for Vehicle-to-Vehicle Communication. *Journal of Novel Engineering Science and Technology*, 4(01), 12–16. <https://doi.org/10.56741/jnest.v4i01.694>
 55. Aunga, Y. Y., Lwinb, M. M., & Pradhan, D. (2025). Real Time Multi-Object Detection and Distance Estimation Based on YOLO8 Using Webcam. *Scientia. Technology, Science and Society*, 2(1), 55-67. [https://doi.org/10.59324/stss.2025.2\(1\).05](https://doi.org/10.59324/stss.2025.2(1).05)
 56. Hsu, T. N., Win, T., Win, L. L. Y., Soe, K. T., Tun, H. M., & Pradhan, D. (2025). Comparative Analysis of State of Charge Estimation Methods for Lithium-Ion Batteries in a 4S3P Configuration. *Scientia. Technology, Science and Society*, 2(2), 27-35. [https://doi.org/10.59324/stss.2025.2\(2\).02](https://doi.org/10.59324/stss.2025.2(2).02)
 57. Nyo, H. W. W., Tun, H. M., Win, L. L. Y., Win, T., Khin, E. E., Aye, M. M., & Pradhan, D. (2025). Analysis of High-Performance Step-Down DC to DC Converter Design Based on Zero Voltage Switching with Pulse Width Modulation Technique for Electric Vehicles. *Journal of Novel Engineering Science and Technology*, 4(01), 25–32. <https://doi.org/10.56741/jnest.v4i01.775>

International Conference Publication (IC)

1. **Devasis Pradhan**, Rabinarayan Panigrahi (2017) 'Robust Digital Invisible Watermarking for Copyright Protection of Image using DCT (Discrete Cosine Transform)', *International Conference on Emerging Trends in Engineering, Science & Technology-2017*. Sri Venkateswara University College of Engineering, Tirupati, AP, 23-03-2017. Tirupati, AP: International Journal of Advances in Science Engineering and Technology, ISSN: 2321-9009, pp.85-89 (**Web of Science Indexed & Publon**)
2. Rabinarayan Panigrahi, **Devasis Pradhan**. (2017). 'Implementation of Invisible Digital Watermarking Technique for Copyright Protection using DWT-SVD and DCT', *ICOWT - 2017. Dayananda Sagar University, School of Engineering*, Bengaluru, 23- 06- 17. Bangalore, Karnataka: IFERP, pp.65-72. (**Web of Science Indexed & Publon**)
3. Subhash Chander Verma , Tejaswini T M, **Devasis Pradhan** (2019) "Harmful Effects of 5G Radiations: Review', *IRAJ- International Conference-ICRRCTEEE-2019*. Hotel Islie, Benagaluru, 24- 03- 19. Bangalore, Karnataka: IRAJ- BENGALURU SECTION, pp.71-75 (**Web of Science Indexed & Publon**)
4. **Devasis Pradhan**, Rajeswari R (2020). '5G-Green Wireless Network for Communication with Efficient Utilization of Power and Cognitiveness', *ICMCsI-2020-Springer Conference. Tribhuvan University, Nepal, 15- 01- 20*. Springer Nature Switzerland AG 2021: Springer, Cham, pp.325-336. (**Scopus & Web of Science Indexed**)
5. Pradeep R Pawar, Prajwal Patil, Praneeth P Jain, Manoranjan K V, **Devasis Pradhan** (2020) 'Comparative Analysis between Energy Detection Method and Matched Filter Detection for Spectrum Sensing in Intelligent Network Intended towards 3G/4G/VOLTE', *IC4-2020*. Sri Sai Ram College of Engineering, Coimbatore, Tamil Nadu, 24- 02- 20. Coimbatore, Tamil Nadu: IFERP, pp.583-596.(**Web of Science Indexed & Publon**)
6. **Devasis Pradhan**, A Dash (2020) 'An Overview of Beam Forming Techniques Toward the High Data Rate Accessible for 5G Network', *International Conference on Science, Engineering & Technology-2020. Rome, Italy, 25- 10- 20. Rome, Italy*: Researchfora International Conference, pp.1-5. (**Web of Science Indexed & Publon**)
7. Kalukhe Siddhesh Vikas Susmita, Kailas, **Devasis Pradhan** (2020). 'A Comprehensive Study on Firewall For IoT Devices, Policies, and Security Issues', *International Conference on Science, Engineering & Technology - ICSET-2020. Chengdu, China, 15- 12- 20. Chengdu, China*: Researchfora International Conference, pp.1-5. (**Web of Science Indexed & Publon**)
8. Shivam, Yadav, Prashant Kumar, Ravi Kumar Singh, Vivek Raj, **Devasis Pradhan** (2021). 'Comparative Analysis Of BER and PAPR for OFDM, OFDM- CDMA, OFDM- MC-CDMA and OFDM- IDMA Systems', *International Academic Conference on Engineering, Technology and Innovations-2021. Jeddah, Saudi*

Arabia, 14- 06- 21. Jeddah, Saudi Arabia: Academics World Jeddah, Saudi Arabia, pp.48-53. (Web of Science Indexed & Publon)

9. Prathviraj Khande, Yogesh K. B, Manu M. M, Ravikiran G. N, **Devasis Pradhan (2021)** 'Comparative Analysis Of Adaptive Beam Forming (ABF) Algorithms For Smart Antenna System (SAS)', *International Academic Conference on Engineering, Technology and Innovations-2021*. Jeddah, Saudi Arabia, 14- 06- 21. Jeddah, Saudi Arabia: Academics World Jeddah, Saudi Arabia, pp.54-61. (Web of Science Indexed & Publon)
10. **Pradhan, D.**, Sahu, P., Dash, A. and Tun, H., (2021). 'Sustainability of 5G Green Network toward D2D Communication with RF- Energy Techniques', *IEEE International Conference on Intelligent Technologies (CONIT 2021)*. K.L.E.I.T, Hubballi, Karnataka, 25- 06- 21. IEEE Bangalore Section: IEEE, pp.1-10.(Scopus & Web of Science Indexed)
11. Pradhan, D., Kumar Sahu, P., R, R. and Tun, H., (2021). 'A Study of Localization in 5G Green Network (5G-GN) for Futuristic Cellular Communication', *3rd International Conference on Communication, Devices, and Computing - ICCDC-2021*. Department of ECE, Haldia Institute of Technology, West Bengal, India, 16th -18th August 2021. Singapore, Published: Springer, Singapore.(Scopus & Web of Science Indexed)
12. H. M. Tun, Z. T. Thu Lin, **D. Pradhan** and P. K. Sahu,(2021) "Slotted Design of Rectangular Single / Dual Feed Planar Microstrip Patch Antenna for SISO and MIMO System," *IEEE 2021 International Conference on Electrical, Computer and Energy Technologies (ICECET), 2021*, Cape Town, South Africa pp. 1-6, doi: 10.1109/ICECET52533.2021.9698738 (Scopus & Web of Science Indexed)
13. W. M. Oo, H. M. Tun, T. M. Nway, **D. Pradhan**, P. K. Sahu and Z. M. Naing, (2022)"Design, Analysis and Fabrication of Dual Band Microstrip Patch Antenna for (L2) Band GPS and WiFi Applications," *2022 IEEE International Conference for Advancement in Technology (ICONAT)*, 2022, pp. 1-5, doi: 10.1109/ICONAT53423.2022.9725872. (Scopus & Web of Science Indexed)
14. Myo Tun, H., Nwe, M., Naing, Z. and **Pradhan, D.** Sahu, P K., (2022). 'Sliding Mode Control-Based Two Wheels Mobile Robot System', *The 14th Regional Conference on Electrical and Electronics Engineering (RC-EEE 2021)*. Thailand, March 2022. Singapore (Under the Publication Process): **Springer, Cham.**(Scopus & Web of Science Indexed)
15. Priyanka, K., Mallavaram, G., Raj, A. and **Pradhan, D.**, (2022). 'Cognitiveness of 5G Technology toward Sustainable Development of Smart Cities',*1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA) – 2022*. Regional Association for Security and Crisis Management, **Serbia**, March 26th – 27th, 2022. Singapore (Under the Publication Process): **Springer, Cham.** (Scopus & Web of Science Indexed)
16. Sinha, H., Kumar, A., and **Pradhan, D.**, (2022). 'A Study of Various Peak to Average Power Ratio (PAPR) Reduction Techniques for 5G Communication System (5G-CS)', *1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA) – 2022*. Regional Association for Security and Crisis Management, **Serbia**, March 26th – 27th, 2022. Singapore (Under the Publication Process): **Springer, Cham.**(Scopus & Web of Science Indexed)
17. **Pradhan, D.**, Tun, H., K C, P. and Ooo, T., (2022). 'Efficient Usage of Energy in 5G Toward Sustainable Development Inclined to Industry 4.0 Connectivity', *2022 IEEE Region 10 Symposium (TENSYP)* . IIT Bombay, India, 1st - 3rd July 2022. Bombay (Accepted for Presentation): IEEE Bombay. **Scopus & Web of Science Indexed)**
18. **Pradhan, D.**, Wardhan Singh, H., Victor Fernandes, J. and Devaki, K., (2022). 'PoD Vs SNR Estimation: C-MIMO Radar Using STC and STAP Algorithm', *2022 IEEE Region 10 Symposium (TENSYP)*. IIT Bombay, India, 1st - 3rd July 2022. Bombay (Accepted for Presentation): IEEE Bombay. **Scopus & Web of Science Indexed)**
19. A B, N., Pradhan, D., & Jambli, S. S. (2023). Opportunities, Challenges, and Benefits of 5G-IoT toward Sustainable Development of Green Smart Cities (SD-GSC). In 2023 3rd International Conference on Intelligent Technologies (CONIT). 2023 3rd International Conference on Intelligent Technologies (CONIT). IEEE. <https://doi.org/10.1109/conit59222.2023.10205780>
20. Pradhan, D., C, S., Rajeswari, & Carva, C. B. (2023). Implications of Resource Optimization in D2D Communication for Efficient Usage of RF Energy: Practice and Challenges. In 2023 3rd International Conference on Intelligent Technologies (CONIT). 2023 3rd International Conference on Intelligent Technologies (CONIT). IEEE. <https://doi.org/10.1109/conit59222.2023.10205729>
21. Carlos, R., Teixeira, M., Barbosa Carvalho, C., Pradhan, D., De Andrade Fernandes, R., & Lennon, B. (n.d.). *Desenvolvimento de uma arquitetura de RSSF de baixo consumo e n os concentradores m oveis em*

ambientes industriais. Com.Br. Retrieved January 15, 2024, from https://sbai2023.com.br/submissoes/file/paper_7336.pdf

22. Pradhan, D., Tun, H. M., & Agarwal, A. (2023, October). Design of Directional Rectangular Patch Antenna (D-RP A) Using Slot Feed for Biomedical Application. In 2023 IEEE 11th Region 10 Humanitarian Technology Conference (R10-HTC) (pp. 297-300). IEEE.
23. D. Pradhan, A. Khuntia, D. D. R. K. Aditya, M. R and A. Agarwal, "Performance Evaluation of Coherent & Non-Coherent MIMO Radar for Target Detection," *2024 International Conference on Emerging Techniques in Computational Intelligence (ICETCI)*, Hyderabad, India, 2024, pp. 387-396, doi: 10.1109/ICETCI62771.2024.10704134.

National Conference Publication (NC)

1. Shaik Wasim S A, Saifulla, Devasis Pradhan (2019) 'Robust application of 3-D Printing in Healthcare', National Conference on Emerging Technology -2019. AIT, Bangalore, 30- 09- 19. Bangalore: International Advanced Research Journal in Science, Engineering and Technology, pp.14-23.

Book Chapter (BC)

1. Devasis Pradhan, Rajeswari R (2020) '5G-Green Wireless Network for Communication with Efficient Utilization of Power and Cognitiveness', in Jennifer S. Raj Professor, ECE, Gnanamani College of Engineering and Technology Namakkal India (ed.) *International Conference on Mobile Computing and Sustainable Informatics. Springer Nature Switzerland AG 2021*: Springer, Cham, pp. 325-335.
2. Devasis Pradhan, Priyanka K C, Rajeswari R (2021) 'GREEN- Cloud Computing (G-CC) Data Center and its Architecture toward Efficient Usage of Energy', in Mangesh Ghonge, Ramchandra Sharad Mangrulkar, Pradip M Jawandhiya, Nitin Goje (ed.) *Future Trends in 5G and 6G Challenges, Architecture, and Applications. : CRC Press - Taylor & Francis Group*, pp. ISBN 9781032006826.
3. Devasis Pradhan, Priyanka K C, Rajeswari R (2021) 'SDR Network & Network Function Virtualization for 5G Green Communication (5G-GC)' , in Mangesh Ghonge, Ramchandra Sharad Mangrulkar, Pradip M Jawandhiya, Nitin Goje (ed.) *Future Trends in 5G and 6G Challenges, Architecture, and Applications. : CRC Press - Taylor & Francis Group*, pp. ISBN 9781032006826.
4. Ghonge, M. M., Mane, S., & Pradhan, D. (2022). Demystifying the Role of Blockchain Technology in Healthcare and Transaction. In P. Nijalingappa, & M. Ghonge (Ed.), *Blockchain Technologies and Applications for Digital Governance (pp. 60-84). IGI Global*. <https://doi.org/10.4018/978-1-7998-8493-4.ch003>
5. Pradhan D., Sahu P.K., Ghonge M.M., Rajeswari, Tun H.M. (2022) Security Approaches to SDN-Based Ad hoc Wireless Network Toward 5G Communication. In: Ghonge M.M., Pramanik S., Potgantwar A.D. (eds) *Software Defined Networking for Ad Hoc Networks. EAI/Springer Innovations in Communication and Computing*. Springer, Cham. https://doi.org/10.1007/978-3-030-91149-2_7
6. Pradhan D., Sahu P.K., Rajeswari, Tun H.M. (2022) A Study of Localization in 5G Green Network (5G-GN) for Futuristic Cellular Communication. In: Sikdar B., Prasad Maity S., Samanta J., Roy A. (eds) Proceedings of the 3rd International Conference on Communication, Devices and Computing. *Lecture Notes in Electrical Engineering*, vol 851. Springer, Singapore. https://doi.org/10.1007/978-981-16-9154-6_43
7. Pradhan, D., Sahu, P.K., Goje, N.S., Ghonge, M.M., Tun, H.M., Rajeswari, R. and Pramanik, S. (2022). Security, Privacy, Risk, and Safety Toward 5G Green Network (5G-GN). In *Cyber Security and Network Security (eds S. Pramanik, D. Samanta, M. Vinay and A. Guha)*. <https://doi.org/10.1002/9781119812555.ch9>. Wiley Publisher
8. Pradhan, D., Tun, H. M., Oo, T., & Ghonge, M. M. (2022). Cognition of 5G Network toward Digital Healthcare for Smart Cities: Issues, Challenges, and Future Directions. In *Understanding Pattern Analysis (p. Under the Publication Process)*. Nova Science Publishers.
9. Pradhan, D., Tun, H. M., R, R., Ghonge, M. M., & Sahu, P. K. (2022). Semantic Web Technologies: Architecture, Application, Trends & Challenges. In *Semantic Intelligent Computing and Applications (p. Under the Publication Process)*. De Gruyter Publisher .
10. Pradhan, D., Sahu, P. K., R, R., Tun, H. M., & Wah, N. K. S. (2022). Integration of AI/ML in 5G Technology toward Intelligent Connectivity, Security, and Challenges. In *Machine Learning Algorithms for Engineering Applications (p. Under the Publication Process)*. CRC Press.
11. Priyanka, K., Mallavaram, G., Raj, A., Pradhan, D., & Rajeswari. (2022). Cognitiveness of 5G Technology Toward Sustainable Development of Smart Cities. In Decision Support Systems for Smart City Applications (pp. 189–203). Wiley. <https://doi.org/10.1002/9781119896951.ch11>

12. Tun, H. M., & Pradhan, D. (2023). Voice-Guided Mobile Robot System for Disabled People. In *Advances in Wireless Technologies and Telecommunication* (pp. 94–124). IGI Global. <https://doi.org/10.4018/978-1-6684-8582-8.ch007>
13. Bruno, A., Gao, M., Pradhan, D., Pradeep, N., & Ghonge, M. M. (2022). Artificial intelligence for genomics: a look into it. In *Medical Information Processing and Security: Techniques and applications* (pp. 175–189). Institution of Engineering and Technology. https://doi.org/10.1049/pbhe044e_ch8
14. Sinha, H. K., Kumar, A., & Pradhan, D. (2023). A Study of Various Peak to Average Power Ratio (PAPR) Reduction Techniques for 5G Communication System (5G-CS). In *Optimization Techniques in Engineering* (pp. 437–454). Wiley. <https://doi.org/10.1002/9781119906391.ch27>
15. Pradhan, D., Mallavaram, G., Priyanka, K., Sneha, S., & Jain, S. (2023). Designing for Boundary Detection of Foreign Objects in Airports Using Python 3. In *Advances in Systems Analysis, Software Engineering, and High Performance Computing* (pp. 92–99). IGI Global. <https://doi.org/10.4018/978-1-6684-9809-5.ch007>
16. Sinha, H. K., Pradhan, D., Saurabh, A., & Kumar, A. (2023). Software Principles of 5G Coverage. In *Advances in Systems Analysis, Software Engineering, and High Performance Computing* (pp. 276–285). IGI Global. <https://doi.org/10.4018/978-1-6684-9809-5.ch020>
17. Pradhan, D., Sahu, P. K., Ghonge, M. M., Rajeswari, & Tun, H. M. (2023). 1 Semantic web technologies: architecture, application, trends, and challenges. In *Semantic Intelligent Computing and Applications* (pp. 1–28). De Gruyter. <https://doi.org/10.1515/9783110781663-001>

Books Published (BP)

1. **Devasis Pradhan (2019)** *MATLAB -Based Programming for Essential Topics on Signal Processing*, 1st edn., India: Evince Publication **ISBN: 9789389125672**
2. **Devasis Pradhan (2020)** *Antenna Theory & Design*, 1st edn., India: Evince pub Publishing **ISBN: 978-93-90197-12-5**.
3. **Devasis Pradhan (2020)** *RF and Microwave Circuit Design*, 1st edn., India: Evincepub Publishing **ISBN: 978-93-90197-11-8**
4. **Devasis Pradhan (2020)** *Understanding Fiber Optics and Networks*, 1st edn., India: Educreation Publishing House **ISBN: 978-93-90307-44-9**.

Best Paper Awards (BPA)

1. Kalukhe Siddhesh Vikas Susmita, Kailas, **Devasis Pradhan (2020)**. 'A Comprehensive Study on Firewall For IoT Devices, Policies, and Security Issues', International Conference on Science, Engineering & Technology - ICSET-2020. Chengdu, China, 15- 12- 20. Chengdu, China: Researchfora International Conference, pp.1-5. **First Best Paper. (Web of Science Indexed)**
2. Prathviraj Khande, Yogesh K. B, Manu M. M, Ravikiran G. N, **Devasis Pradhan (2021)** 'Comparative Analysis Of Adaptive Beam Forming (ABF) Algorithms For Smart Antenna System (SAS)', International Academic Conference on Engineering, Technology and Innovations-2021. Jeddah, Saudi Arabia, 14- 06- 21. Jeddah, Saudi Arabia: Academics World Jeddah, Saudi Arabia, pp.54-61. **2nd Best Paper. (Web of Science Indexed)**
3. Priyanka, K., Mallavaram, G., Raj, A. and **Pradhan, D., (2022)**. 'Cognitiveness of 5G Technology toward Sustainable Development of Smart Cities', *1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA) – 2022*. Regional Association for Security and Crisis Management, **Serbia**, March 26th – 27th, 2022. Singapore (Under the Publication Process): **Springer, Cham. (Scopus & Web of Science Indexed) 2nd Best Paper**
4. Sinha, H., Kumar, A., and **Pradhan, D., (2022)**. 'A Study of Various Peak to Average Power Ratio (PAPR) Reduction Techniques for 5G Communication System (5G-CS)', *1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA) – 2022*. Regional

Association for Security and Crisis Management, **Serbia**, March 26th – 27th, 2022. Singapore (Under the Publication Process): **Springer, Cham.(Scopus & Web of Science Indexed) 3rd Best Paper.**

Edited Book

1. Prof. Devasis Pradhan, **Editor in Chief** for : **The Role of Network Security and 5G Communication in Smart Cities and Industrial Transformation**” is approved by **Bentham Publishing House Singapore**. (Forthcoming)<https://benthambooks.com/future-books-by-subject/energy-science-technology/sub-category/communication/>
2. Prof. Devasis Pradhan, **Editor in Chief** for: **Artificial and Cognitive Computing for Sustainable Healthcare System in Smart Cities**” is approved by **ISTE Science Publishing House (Elsevier)** (Forthcoming) all chapter submitted.
3. Prof. Devasis Pradhan, **Editor in Chief** for : **5G-Green Communication Network and Diversity for Smart Cities**” is approved by **Apple Academic Press Co-Publishing with CRC Press (Taylor & Francis Group)**.(Forthcoming)<https://www.appleacademicpress.com/5g-green-communication-networks-and-diversity-for-smart-cities-/1290>

KEYNOTE SPEAKER/ INVITED SPEAKER/TCP in INTERNATIONAL/NATIONAL CONFERENCE

Session Chair & Keynote Speaker :

1. Chaired a Session in 2nd -International conference- ICRRCTEEE- 23rd March, 2019 at Hotel Trinity Isle, Bengaluru

Topic Delivered – *Ultra Low latency in 5G Cellular*

2. Chaired a Session in 3rd - ACN International Conference – 24th November 2019 Hotel Trinity Isle Bengaluru

Topic Delivered – *Lowering Cost for 5G: New Testing & Challenges for implementation*

3. Chaired a Session in International Conference on Science, Engineering & Technology -2020 , 24-25th October 2020, Rome, Italy

Topic Delivered – *RF –Energy harvesting in 5G Green Communication in Smart Cities*

4. Chaired a Session in International Conference on Science, Engineering & Technology -2020 , 12th December 2020, Chengdu, China

Topic Delivered – *Efficient usage of energy while deploying 5G Cellular*

5. Chaired a Session IASTEM International Conference at Dubai, UAE, 22nd May, 2022

Topic Delivered - *Cognitiveness of 5G for Smart Cities*

6. Chaired a Session ISERD International Conference at New York, USA, 03rd March, 2022

Topic Delivered - *5G Security and other Issues*

7. Chaired a Session International Conference on Big Data, IoT, Cyber Security and Information Technology, Chicago, USA, 15th January, 2022

Topic Delivered -*RF Harvesting Approaches toward smart cities*

8. Chaired a Session World Conference on Applied Science Engineering and Technology (WCASET) held in Dubai, United Arab Emirates during 25 - 26 July, 2022

Topic Delivered - “*SDN and SDR*”.

9. Chaired a Session 3rd International Conference CONIT, IEEE, KLEIT, Hubli, 23rd to 25th June, 2023

10. Chaired a Session IEEE Conference -ICAISC 2023, SDMCET, Dharwad, 16th to 17th June, 2023

11. Chaired a Session 2nd IEEE Conference -ICDCECE 2023, BITM, Ballari, 29th to 30th April, 2023

12. Chaired a Session 1st IEEE Conference -ICIICS 2023, Sharanbasava University, Kalaburagi, 24th to 25th November, 2023

Invited Speaker/Talk

1. Resource Person for 3 days FDP on **Applications of MATLAB Tools** organized by Department of Computer Science Engineering , Padmanava College of Engineering, Rourkela, Odisha (2nd January -4th January 2017)

Talk – **Usage of Various MATLAB Communication Tool Box .**

2. Resource Person for five days FDP on **Applications of Mathematics in Engineering & Technology** organized by Department of Mathematics, Acharya Institute of Technology, Bangalore (3rd to 7th February

2020)

Talk - Role of Mathematics in MATLAB programming.

3. Resource Person for **3 - Days Intensive Workshop On Fundamentals of Communication & Networks** organized by Department of ECE, AIT Bangalore -560107 in the Association of ISTE New Delhi. (17th December, 2020 - 19th December, 2020)

Talk - Signaling & Transmission Media

4. Resource Person for **2- Days National Workshop on Use of Modern ICT Tools for Effective TLP** organized by Department of Chemistry, AIT, Bangalore -560107 in the Association with IQAC Cell AIT (25th -26th March 2022)

Talk - Preparing e-Content and Effective Video Lectures

5. Resource Person for **1- Day National Workshop on Research Publication Parameters & e- Resources** organized by Department of ECE, AIT, Bangalore -560107(23rd March, 2022)

Talk- Research Metrics

6. Resource Person for **4- Day IEEE Seminar Series &** organized by BGIET, Punjab (23rd January, 2023 - 27th January 2023)

Talk- Enhancing Energy Efficiency for cellular communication in 5G Network

TCP/Advisory Board Member/Workshop Chair

1. **TPC Member** of 2nd IEEE IAS ComPE 2021 on Computational Performance Evaluation at Department of Computer Science & Engineering, Amity University, Gurugram, India
2. **Advisory Board Member** for IC4 Conference -2018 Sri Sairam College of Engineering, Anekal Bengaluru, 2018
3. **Scientific Committee Member** for ICFTEN-2021 Conference 20th and 21st May ,2021 at Rao Bahadur Y Mahabaleswarappa Engineering College, Ballari
4. **Advisory Board Member** for Human Behaviour Analysis for Smart City Environment Safety - Associated with ICIAP 2021 Lecce, Italy, May 23-27, 2022
5. **Workshop Chair** for International Conference on IoT, Communication and Intelligent Technology, Changsa, China , Springer -27th -29th May, 2022
6. **Workshop Chair for International Conference on Computing, Communication, Perception and Quantum Technologies-2022**, North China Electric Power University-5th -7th August, 2022
7. PC Member & Reviewer in the 4th International Conference (Springer) on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology held in Hybrid mode during November 19-20, 2022
8. PC Member & Reviewer in the International Conference (Springier) PEIS 2023 organized by NIT Delhi, India in Hybrid mode during June 24-25, 2023
9. PC Member & Reviewer in the International Conference (Springier) ICDS 2023 organized by MNIT Jaipur, India in Hybrid mode during July 14-15, 2023
10. PC Member & Reviewer in the 4th International Conference (Springier) CIS 2023 organized by Christ University, Bangalore, India in Hybrid mode during September 04-05, 2023
11. PC Member & Reviewer in the 3rd International Conference (Springier) ICIVC 2023 organized by NIT, Agartala, India in Hybrid mode during November 26-27, 2023
12. PC Member & Reviewer in the 4th International Conference (Springier) ICCIS 2023 organized by MNIT, Jaipur, India in Hybrid mode during December 16-17, 2023

AWARDS, COMMENDATIONS RECEIVED

- 1. Green Thinkerz- Bright Educator Award -2018** -Organizing Committee -IRSD, CII, Chandigarh, 5th April 2019
- 2. Bright Educator Award -2019** - Organizing Committee -IRSD, CII, Chandigarh, 10th January 2020
- 3. Teacher Innovation Award-2019** - Organizing Committee -Sri Aurobindo Society ZIIEI -2019
- 4. Best Lecturer of Electronics - Karnataka Educational Award -2019** - Organizing Committee - Karnataka Educational Award -2019 Unit of NITI AYOOG Govt. of India
- 5. Maulana Abul Kalam Excellence Award -2020-** Organizing Committee- Shikshak Kalyan Foundation in association with AICTE New Delhi
- 6. National Author Award 2021** -Organizing Committee -(I2OR) Ministry of Micro, Small and Medium Enterprises, Government of India
- 7. CIEMA Research Excellence Award 2022** - In the Field of Antenna Engineering, Organizer - Regional Association for Security and Crisis Management, Serbia

MEMBERSHIP OF PROFESSIONAL BODIES				
1. ISTE - Life Time Membership (2008 Onwards)				
2. SAE India - Life Time Membership (2016 Onwards)				
3. IAENG - Life Time Membership (2015 Onwards)				
4. IEEE - Annual Membership (2018 Onwards)				
5. ATMS - Life Time Membership (2020 Onwards)				

CONTINUING EDUCATION / REFRESHER COURSES UNDERGONE [LAST 3 YEARS]				
Course Title	Institution/Organization	Year	Duration	
Understanding Ultra Low-Latency in 5G Cellular	IEEE Kolkata	2018	5 Days	
Lowering Cost for 5G New Testing	IEEE Bangalore	2018	5 Days	
How to Publish Research in the IEEE Transactions and Journals	IEEE- PDH course	2018	1 Day	
Industrial IoT Markets and Security	University of Colorado Boulder - Coursera	2020	4 Weeks	
Cyber security and the X-Factor	University System of Georgia - Coursera	2020	4 Weeks	
5G Hybrid Beamforming Design	IEEE- PDH	2020	3 Days	
IEEE 802.11ax Wireless Networking in High-density WLANs	IEEE- PDH	2020	3 Days	
Getting Ahead with RF Breakdown Simulation for Space Hardware	IEEE-PDH	2020	3 Days	
Microwave and Antenna Applications in 5G jointly Organized by APMTT Chapter Bangalore and IEEE Bangalore Section	APMTT Chapter Bangalore and IEEE Bangalore	2020	5 Days	
Futuristic Wireless Communication and IoT 5G and Beyond	National Institute of Technology, Rourkela, Odisha	2020	5 Days	
Faculty Development Program on Outcome based Education	Dr. Akhilesh Das Gupta Institute of Technology and Management	2020	3 Days	
Advanced Antenna Design and Development for RF Communication Systems	IETE and ATMS Bangalore	2020	1 Day	
Advancement & Research Opportunities in Electronics &	Bharati Vidyapeeth		1 Day	

Telecommunication

College of Engineering, 2020
Pune, Maharashtra

National Level Webinar On “Innovative **Technologies**”

Department of ECE, Sir 2021 3 Days
MVIT, Bengaluru

JOURNAL REFEREE (EDITORIAL BOARD/REVIEWER)

1. **Editorial Board Member** - International Journal of Electrical, Electronics and Data Communication (IJEEDC)-eISSN:2320-2084 , pISSN:2321-2950 (2017 Onwards)
2. **Editorial Board Member** -International Journal of Industrial Electronics and Electrical Engineering (IJIEEE)-ISSN (Print) : 2347-6982 (2017 Onwards)
3. **Editorial Board Member**- Dove Press - Journal of Multidisciplinary Healthcare, Australia (2019 Onwards)
4. **Editorial Board Member** - International Journal of Wireless Communication and Mobile Computing , ISSN-Print -2330-1007, ISSN-Online- 2330-1015 (2020 Onwards)
5. **Peer Reviewer** - International Journal of Innovations in Engineering, Research and Technology-IJIERT (ISSN 2394-3696) (2018 Onwards)
6. **Peer Reviewer**- International Research Journal of Innovations in Engineering & Technology - IRJIET International Open Access, Monthly, Peer Reviewed Journal ISSN (online): 2581-3048 (2019 Onwards)
7. **Peer Reviewer**- IGI Global Publication (2021 Onwards)
8. Peer Reviewer - *International Journal of Intelligent Networks*, **KeAi Publishing, Elsevier(2021 onwards)**
9. Peer Reviewer - **Ad Hoc Networks, Elsevier (2021 onwards)**
10. Peer Reviewer - **Digital Communications and Networks, Elsevier (2021 onwards)**

PROFESSIONAL ACHIEVEMENT / CONSULTANCY

1. **Workshop Organized** - Conducted a National Level Workshop as a program coordinator sponsored by ISTE Karnataka Section Intensive workshop on MATLAB SIMULATION for UG Students – 2019 Grants - Free
2. **Workshop Organized** - Conducted a Workshop as a program coordinator sponsored by ISTE Karnataka Section Intensive workshop on Fundamentals of Communication & Networks – 2020 Grants – **Rs. 5000/-**
3. **FDP Organized - Received Grants From AICTE -ATAL** to conduct FDP -2020-2021 FDP- 5G Green Communication & Network Deployment in Smart Cities -2020-21 **Grant – Rs. 93,000/-**
4. **Working as a Research Consultant for Vyomastra LLP, Bangalore , Karnataka, India. Project** - MIMO Radar for UAV

RESEARCH PROFILE

1. **Resaerchgate** - <https://www.researchgate.net/profile/Devasis-Pradhan-2>
2. **Google Scholar** - <https://scholar.google.co.in/citations?user=sZBMU8UAAAJ&hl=en>
3. **ORCID** - <https://orcid.org/0000-0002-8201-2210>
4. **Web of Science ResearcherID** -AAN-9695-2020 <https://publons.com/researcher/AAN-9695-2020/>

REFERENCE

1. Dr. Prasanna Kumar Sahu, Professor, Department of Electrical Engineering, National Institute of Technology , Rourkela, Odisha, **India**
Mob- 9861431878
Email - pk_sahu@nitrrkl.ac.in
2. Dr. Hla Myo Tun, Professor, Department of Electronic Engineering Faculty of Electrical and Computer Engineering Yangon Technological University **Myanmar**
Email - hla.myotun@ytu.edu.mm
3. Dr. Alessandro Bruno, PhD Lecturer in Computing at Bournemouth University’s Department of Computing and Informatics. Poole - **United Kingdom**

Pradhan

Devasis Pradhan