



Rabindra Kumar Dalei, Ph.D.

Designation : Associate Professor

Department : Department of Computer Applications
(JOINED THE INSTITUTE IN 2009)

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RESEARCH INTERESTS

- ✓ Wireless Sensor Networks
- ✓ Mobile Computing
- ✓ Machine Learning

Academic Qualifications

- ✓ Ph. D. (CSE), Siksha 'O' Anusandhan University, India
- ✓ M. Tech.(CS) Utkal University, India

Teaching Experience/Industrial Experience/Research Experience

- ✓ 23 years of teaching experience

PUBLICATIONS

JOURNAL ARTICLES & CONFERENCE PAPERS

- [1] ShubhashreeSahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, UttamSahu, KrishneshwarTiwarly: "Comparative Performance Analysis of Particle Swarm Optimization and Artificial Bee Colony Algorithm for Optimization of Missile Gliding Trajectory", OITS International Conference on Information Technology 2022.
- [2] ShubhashreeSahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, UttamSahu, KrishneshwarTiwarly: "Comparative Performance Analysis of Genetic Algorithm and Differential Evolution for Optimization of Missile Gliding Trajectory",OITS International Conference on Information Technology 2022.
- [3] ShubhashreeSahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, UttamSahu, KrishneshwarTiwarly:" Parameter optimization of genetic algorithm utilizing Taguchi design for gliding trajectory optimization of missile",Elsevier- Journal of Computational Mathematics and Data Science"(Scopus-Indexed) 2022.

- [4] ShubhashreeSahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, UttamSahu, KrishneshwarTiwary:"Particle swarm optimization algorithm parameter tuning using Taguchi method for gliding trajectory optimization of missile", Elsevier- Journal of Computational Mathematics and Data Science"(**Scopus-Indexed**)2022.
- [5] Bhagwat Prasad Chaudhury, **Rabindra Kumar Dalei**, Ajit Kumar Nayak, "HEERAC-A Hybrid Energy Efficient Routing Algorithm based on K-means clustering for Wireless Sensor Networks", Journal of Huazhong University of Science and Technology,Volume 50, issue 4, ISSN-1671-4512,2021 (**SCOPUS Indexed**)
- [6] PuspanjaliMallik, Ajit Kumar Nayak, **Rabindra Kumar Dalei**, "Comparative Analysis of Various Task Scheduling Algorithms in Cloud Environment", OCIT-OITS International Conference on Information Technology,IEEE, **DOI:** 10.1109/OCIT53463.2021.00019, 2021.(**SCOPUS Indexed**)
- [7] **Rabindra Kumar Dalei**, Ajit Kumar Nayak&SatyanandaChampatiRai, Content Centric Framework for Wireless Sensor Networks, Journal of Engineering and Applied Sciences, 12 (22 SI), pp.6234-6239,DOI:10.3923/jeasci.2017.6234.6239,2017 (**SCOPUS Indexed**)
- [8] **Rabindra Kumar. Dalei**, R. K. Dalei, S. C. Rai, and A. K. Nayak, "A Content Aware Framework with Optimal Path Selection inWireless Sensor Networks," Journal of Engineering and Applied Sciences, 13 (20), pp. 8629-8633, DOI: 10.3923/jeasci.2018.8629.8633, 2018 (**SCOPUS Indexed**).
- [9] **Rabindra. Kumar. Dalei**, A. K. Nayak, and S. C. Rai, "Low Energy Stable Election Content Matching Routing Protocol for Wireless Sensor Network," International Journal of Control Theory and Application, 10 (13), pp. 55-64, 2017 (**SCOPUS Indexed**).
- [10] Pradyumna Kumar Tripathy, Ranjan Kumar Dash, **Rabindra Kumar Dalei**and ChittaRanjanTripathy, A Path-Set Based Approach for Two-Terminal Reliability Computation of Interconnection Networks , Journal of Engineering and Applied Sciences, Medwell Journals, Vol. 13, No. 3, pp. 3243-3249, 2018 (**SCOPUS Indexed**).
- [11] **Rabindra Kumar Dalei**, SatyanandaChamptiRai, and Ajit Kumar Nayak, Content Routing Framework for Wireless Sensor Networks, International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE), IEEE **DOI:** 10.1109/ICRIEECE44171.2018.9008993, 2018(**SCOPUS Indexed**).
- [12] **Rabindra Kumar Dalei**, Real-Time Health Monitoring through Smart and Content-Aware Sensor Network, International Conference on Medical Informatics 2016 (ICMI2016), 2016
- [13] **Rabindra Kumar Dalei**, Suchismita Rout, An Adaptive Power Aware Framework for Energy Efficient Wireless Ad Hoc Network, Int. J. of Recent Trends in Engineering & Technology, Vol. 11, Issue:2, pp. :248-253, 2014
- [14] DamodarNayak&**Rabindra Kumar Dalei**, Multi-Class Traffic Management in 4G Network, International Journal of Advances in Engineering & Technology, Vol. 4, Issue 2, pp. 138-147, 2012.
- [15] **Rabindra K Dalei**, Simulation and Analysis of DSDV and AODV for Mobile Ad Hoc Netowrk (MANET) Using NS-2, National conference on Future Trends in Information & Communication Technology & Applications (NCICT-11), pp. 97-100, 2011.

CONFERENCES ATTENDED

- Participate in the International Virtual Conference on “Wearable Technologies & Applications: Emerging Trends and Innovation” (WeTA 2020) at Center for Wearable Technology and Applications, School of Electronics Engineering, VIT, Vellore on 26th and 27th June 2020.
- Participated in IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE 2018) on 27th – 28th July, 2018 at KIIT, Bhubaneswar as a delegate and presented a paper on “Content Routing Framework for Wireless Sensor Network”.
- Participated in International Conference on Innovative Research in Engineering and Science (IRES2017) organized by Asian Institute of Technology Conference Center, Thailand, 16-17 June 2017 as a delegate and presented papers on “Content Centric Framework for Wireless Sensor Network”.
- Participated in 2nd International Conference on Sustainable Computing Techniques in Engineering, Science and Management (SCESM 2017) organized by Jain College of Engineering, Belagavi (Near Goa), India, January 27-28, 2017 as a delegate and presented papers on “Low Energy Stable Election Content Matching Routing Protocol for Wireless Sensor Network”.
- Participated in International Conference on Medical Informatics 2016 (ICMI2016) on 26th - 28th February 2016 at AIIMS, Bhubaneswar as a delegate and presented a paper on “Real- Time Health Monitoring through Smart and Content-Aware Sensor Network”.