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RESEARCH INTERESTS

- ✓ Wireless Sensor Network
- ✓ Internet of Things
- ✓ Load Balancing in Cloud

Academic Qualifications

- ✓ Ph. D (Computer Science), Utkal University, India
- ✓ M. Tech. (Computer Science), Utkal University, India

Teaching Experience/Industrial Experience/Research Experience

- ✓ 14 years

PUBLICATIONS

JOURNAL ARTICLES

[1]. **Samaleswari Prasad Nayak**, Satyananda Champati Rai, S Pradhan, J.K. Mantri, "RELAS: A reliable authentication system for patient monitoring using IoT", International Journal of Knowledge-based and Intelligent Engineering Systems(Scopus Indexed, SCIE), vol. 24, issue. 2, pp. 83-93, 2020.

[2]. SuchismitaRout, **Samaleswari Prasad Nayak**, "Energy Minimization Technique in SDN using Efficient Routing Policy", Journal of Xi'an University of Architecture &Technology (Scopus Indexed), vol. XII, Issue IV, pp. 3512-3519,2020.

[3]. **Samaleswari Prasad Nayak**, Surajit Das, Satyananda Champati Rai, Sateesh Kumar Pradhan, "SIMAS: smart IoT model for acute stroke avoidance", International Journal of Sensor Networks, Inderscience (Scopus Indexed), vol. 30, pp. 83-92,2019.

[4]. S Pradhan, SurajitDas, **Samaleswari Prasad Nayak**, J.K. Mantri, "An IoT Based Detection Model for the Level of Autism in a Context-Aware Health Care", International Journal of Computer Sciences and Engineering, vol. 7, issue. 3, pp. 152-156,2019.

[5]. **Samaleswari Prasad Nayak,** Satyananda Champati Rai, Sateesh Kumar Pradhan, "An IoT Framework for Real-Time Event Detection and Acquisition Using Mobile Sink", International Journal of Engineering &Technology (Scopus Indexed), vol. 7, 466-473, 2018pp..

[6]. Monalisha Mishra, **Samaleswari Prasad Nayak,** Basant KumarNayak, "Maximizing Network Lifetime With Adaptive Clustering In Wireless Sensor Networks", International Journal of Advances in Electronics and Computer Science, 2016, Vol. 3, pp. 37 –41

[7]. **Samaleswari Prasad Nayak,** Satyananda Champati Rai, "A Performance Analysis of Energy Efficient Routing Protocols in Wireless Sensor Networks", International Journal of Innovations &Advancement in Computer Science IJIACS,2015, Vol.4, pp. 248 –255

[8]. Bhagwat Prasad Choudhury, **Samaleswari Pr. Nayak**, Ajit Ku Nayak, "CIF: An IoT - based Pollution Awareness Model throughCarbonlevel Monitoring in Urban Areas", Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 6, June 2021: 1207-1223, (ScopusIndexed)

[9]. SuchismitaRout, **Samaleswari P. Nayak**, ParthaSarathiBehera, "AQM: Indoor and Outdoor Air Quality Monitoring using SDN BasedIoT Framework supporting Cloud Platform", Journal of Huazhong University of Science and Technology, Vol. 50, No. 5, June, 2021 (Scopus Indexed)

[10]. Stitapragyan Lenka, Sateesh Kumar Pradhan, **Samaleswari Prasad Nayak** and Sarat Chandra Nayak," Exploiting Predictability of Random Vector Functional Link Networks in Forecasting Quality of Service (QoS) Parameters of IoT-Based Web Services Data", International Journal of Sensors, Wireless Communications and Control, Vol. 13, Pages : 57 - 70, 2023.

[11]. Stitapragyan Lenka, Sateesh Kumar Pradhan, **Samaleswari Prasad Nayak** and Sarat Chandra Nayak," Forecasting Quality of Service (QoS) Parameters of IoTbased Web Services with an Artificial Electric Field Algorithmtrained Artificial Neural Services with an Artificial Electric Field Algorithmtrained Artificial Neural Network Network", Karbala International Journal of Modern Science, Vol. 9, Pages : 137 - 148, 2023.

[12]. Surajit Das, **Samaleswari Prasad Nayak**, Biswajit Sahoo, Sarat Chandra Nayak, "Machine Learning in Healthcare Analytics: A State-of-the-Art Review", Archives of Computational Methods in Engineering, https://doi.org/10.1007/s11831-024-10098-3, Springer

CONFERENCE PAPERS

[1]. **Samaleswari Prasad Nayak, Stitapragyan Lenka, Satyananda**Champati Rai, SateeshKumarPradhan, "An optimal clusteringalgorithm for wirelesssensor network", Proceedings of 2017 International Conference on SignalProcessing and Communication (ICSPC), Indexed in IEEE Explorer and Scopus, pp. 462-466, July 28-29,2017.

[2]. **Samaleswari Prasad Nayak,** SatyanandaChampati Rai, SateeshKumarPradhan, "A Multi-ClusteringApproach to AchieveEnergyEfficiencyusing Mobile Sink in WSN", In Computational Intelligence in Data Mining, pp. 793- 801. Indexed in Springer, Singapore,2017.

[3]. **Samaleswari Prasad Nayak,** SatyanandaChampati Rai, SateeshKumarPradhan, "MERA: A Multi-clusteredEnergy Efficient RoutingAlgorithm in WSN", Proceedings of 2015 International Conference on Information Technology (ICIT),Indexed in IEEE Explorer, pp. 37 - 42, December 21 - 23,2015.

[4]. **Samaleswari Prasad Nayak,** KasturiDhal, SatyanandaChampati Rai, SateeshKumarPradhan, "TIME: Supporting topology independent mobility with energy efficient routing in WSNs", 2015 1st International Conference on NextGenerationComputing Technologies (NGCT), **Indexed in IEEE Explorer,** pp. 350 - 355, September 4 - 5,2015**.**

[5]. **Samaleswari Prasad Nayak**, SuchismitaRout, SurajitDas and SudhansuShekharPatra, "Error rate reduction of Air QualityParameters in Health Care Industryusing SD-IoTEnvironment" 2021 19th OITS International Conference on Information Technology (OCIT), indexed by IEEE, DOI: 10.1109/OCIT53463.2021.00094

[6]. Surajit Das, **Samaleswari Prasad Nayak**, Biswajit Sahoo, Sarat Chandra Nayak, "Evaluating Ensemble Models on Imbalanced Data Sets: A Comparative StudyacrossVariedMinority Class Ratios" 2024 International Conference on EmergingSystems and Intelligent Computing (ESIC), indexed by IEEE, DOI: 10.1109/ESIC60604.2024.10481583

ANY OTHER

BOOK CHAPTER

1. SAW: A real-time surveillance system at an agricultural warehouseusingIoTSamaleswari Prasad Nayak, SatyanandaChampati Rai, BiswajeetSahooElsevier   978-0-12-823694-9, 2022

2. Wearablesensors and machine intelligence for smart healthcareSamaleswari Prasad Nayak, Sarat Ch. Nayak, SatyanandaChampati Rai, Bimal Prasad Kar Springer 978-981-19-1408-9   2022   978 981-19-1407-2