



## Ranjit Kumar Behera, M.Tech.

**Designation** : Assistant Professor

**Department** : Department of Computer Science and Technology  
(JOINED THE INSTITUTE IN 2022)

**Contact** : +91-9861762524 (M)

**Email** : ranjit.behera@silicon.ac.in  
ranjit.behera@gmail.com

### RESEARCH INTERESTS

- ✓ Internet of Things
- ✓ Fog Computing
- ✓ Smart Cities
- ✓ Software Reliability

### Academic Qualifications

Ph. D. (Thesis Submitted), BPUT, Rourkela, India

M. Tech. (CSE), National Institute of Science & Technology, Berhampur, India

B.E. (CSE), National Institute of Science & Technology, Berhampur, India

### Teaching Experience/Industrial Experience/Research Experience

- ✓ 16+ years

## PUBLICATIONS

### JOURNALS

- [1]. D. S. Roy, **Ranjit Kumar Behera**, K. H. K. Reddy and R. Buyya, "A Context-Aware, Fog Enabled Scheme for Real-Time, Cross-Vertical IoT Applications," *IEEE Internet of Things Journal*, DOI : 10.1109/JIOT.2018.2869323 [**SCI-IF:9.92**]
- [2]. K. H. K. Reddy, **Ranjit Kumar Behera**, D. S. Roy, "A Service Delay Minimization Scheme for QoS Constrained, Context Aware Unified IoT Applications" *IEEE Internet of Things Journal* [**SCI-IF :9.92**]
- [3]. **Ranjit Kumar Behera**, K. Hemant Kumar Reddy, and Diptendu Sinha Roy. "Modeling and assessing reliability of service-oriented internet of things." *International Journal of Computers and Applications* (2018): 1-12. Taylor

& Francis Journal [ISSN1925-7074] [SCOPUS]

- [4]. **Ranjit Kumar Behera**, Patro, A., Reddy, K. H. K., & Sinha Roy, D. (2021). An Efficient Fog-layer TaskSchedulingAlgorithm for multi-tiered IoT Healthcare System. International Journal of Reliable and Quality E-Healthcare (IJRQEH), IGI Global. [SCOPUS] [Accepted for Publication]
- [5]. Amrut Patro, & **Ranjit Kumar Behera**. (2021, August). A Queuing Based Technique for Efficient TaskScheduling in Fog. In Journal of Physics:ConferenceSeries, Vol. 2007, No. 1, pp.01203, IOP Publishing. [SCOPUS]

## BOOK CHAPTERS

- [1]. **Ranjit Kumar Behera**, and Biswajeet Padhi. "A Smart Document Converter : Conversion of Handwritten Text Document to Computerized Text Document." *Machine Learning Algorithms for Industrial Applications*. Springer, Cham, 2020.153-166.
- [2]. **Ranjit Kumar Behera**, Mohit Misra, Amrut Patro, "An RF Based Social Distance Smart Band System in Organization", in the book "Artificial Intelligence Techniques in Human Resource Management", Apple Academic Press, CRC Press.

## CONFERENCES

- [1]. **Ranjit Kumar Behera**, Patro, A., & Sinha Roy, D. (2021). A Resource AwareLoad Balancing Strategy for Real-Time, Cross-Vertical IoT Applications. In 2<sup>nd</sup> International Conference on BiologicallyInspired Techniques in Many-CriteriaDecisionMaking (BITMDM-2021),Springer.
- [2]. MohitMisra, Amrut Patro, Diptendu Sinha Roy, **Ranjit Kumar Behera** "An Efficient Two Wheeler Anti-theft System based on Three-Layer Architecture", 4<sup>th</sup> International Conference in Communication, Devices and Networking (ICCDN 2020),Springer.
- [3]. **Ranjit Kumar Behera**, K Hemant K Reddy, Diptendu S Roy, (2019), "A Novel Context Migration Model for Fog-enabled Cross-Vertical IoT Applications", In International Conference on Innovative Computing and Communication (ICICC- 2019), TU, Ostrava, CzechRepublic (Europe),Springer.
- [4]. **Ranjit Kumar Behera**, Nicky Kumar, AvinashMahala, K HemantReddy, "A Novel CostMinimizationApproach for Data Transaction in the Context of IoT", In Smart Computing and Informatics 2018 (pp. 393-402).Springer.
- [5]. **Ranjit Kumar Behera**, K. Hemant K. Reddy, and Diptendu S. Roy," ReliabilityAssessment of Energy Monitoring Service for a Futuristic Smart City", In the proceeding of Second International Conference on Information and Communication Technology for CompetitiveStrategies (ICTCS-2016) Udaipur, Rajasthan,India
- [6]. **Ranjit Kumar Behera**, K Hemant K Reddy, Diptendu S Roy, (2015), "Reliability modeling of serviceoriented internet of things" In the proceeding of 4th International Conference on Reliability, Infocom Technologies and Optimization (Trends and FutureDirections)"
- [7]. **Ranjit Kumar Behera**, Shyam Gupta, Akash Gautam, "Big-Data Empowered Cloud Centric Internet of Things", In the proceeding of International Conferenceon Man and Machine Interfacing-MAMI'15. IEEE

- [8]. Gouda, Bhabani Sankar, Chandan Kumar Behera, and **Ranjit Kumar Behera**. "A scenario based simulation analysis and performance evaluation of energy efficiency enhancement of routing protocols in MANET." Automation, Computing, Communication, Control and Compressed sensing (iMac4s), 2013 International Multi- Conference on. IEEE, 2013.

### CONFERENCES ATTENDED

- [1]. Attended 4<sup>th</sup> International Conference in (Digital) Communication, Devices and Networking (ICCDN 2020), from 19<sup>th</sup> to 20<sup>th</sup> December-2020, organized by the Department of Electronics & Communication Engineering, Sikkim Manipal Institute of Technology, India, Springer
- [2]. Attended Second International Conference on (Digital) Research and Innovations in Science, Engineering & Technology" ICRASET-2020, from 4<sup>th</sup> - 5<sup>th</sup> September-2020, organized by Birla Vishvakarma Mahavidyala Engineering College, Vallabh Vidyanagar, Gujarat, India, IEEE
- [3]. Attended an International Conference on Man and Machine Interfacing (MAMI'15) from 17<sup>th</sup> to 19<sup>th</sup> December 2015, organized by C.V Raman College of Engineering, Bhubaneswar, which was technically co-sponsored by IEEE Kolkata section.
- [4]. Attended the 4<sup>th</sup> International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) organized in association with Computer Society of India held during September 2-4, 2015 at Amity University, Uttar Pradesh, which was technically Co-Sponsored by IEEE UP Section.
- [5]. Attended a three days National Conference on "Cloud Computing" held during 19<sup>th</sup>- 21<sup>st</sup> January, 2015 organized by School of Computer Science, NIST, Berhampur.
- [6]. Attended a National Conference on High Performance Computing & Simulation organized by School of Computer Science & Engineering, National Institute of Science & Technology, Berhampur held during January 18-19 2013.
- [7]. Attended an IEEE International Multi Conference on Automation, Computing, Control, Communication and Compressed Sensing organized by St. Joseph's College of Engineering and Technology, Palai, Kottayam held during March 22-23, 2013, Co-Sponsored by IEEE Kerala Section.
- [8]. Attended 10<sup>th</sup> International Conference on Information Technology (ICIT-2007) organized by National Institute of Technology, Rourkela with collaboration with OITS, held during December 17- 20, 2007.

### WORKSHOPS/FDP PROGRAMS ATTENDED

- [1]. Participated and obtained "A" grade in a one-week Faculty Development Program on "AI and Machine Learning" jointly organized by Electronics and ICT Academics through National Knowledge Network under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" by the Ministry of Electronics and Information Technology (MeitY), Government of

India from 23 December – 27 December, 2019 at National Institute of Science and Technology, Berhampur.

- [2]. Participated in a one-week Faculty Development Program on “Robotics and AI” at National Institute of Science and Technology, jointly organized by Electronics and ICT Academic held from June 24 – 28, 2019 through National Knowledge Network under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the Ministry of Electronics and Information Technology (MeitY), Government of India.
- [3]. Participated in a short-term course on “Introduction to Programming: A Pedagogical Approach” at National Institute of Science and Technology, jointly organized by Electronics and ICT Academy, Indian Institute of Technology, Kanpur from 17<sup>th</sup> June to 21<sup>st</sup> June, 2019.
- [4]. Participated in a one-week Faculty Development Program on “Deep Learning and Applications” and obtained „A’ grade at National Institute of Science and Technology, jointly organized by Electronics and ICT Academic held from 27 May – 31 May, 2019 through National Knowledge Network under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the Ministry of Electronics and Information Technology (MeitY), Government of India.
- [5]. Participated in a one-week Faculty Development Program on “Network Security” at National Institute of Science and Technology, jointly organized by Electronics and ICT Academic held from May 20-24, 2019 through National Knowledge Network under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the Ministry of Electronics and Information Technology (MeitY), Government of India. This programme is endorsed by AICTE / UGC / NBA.
- [6]. Attended a Workshop on “Artificial Intelligence and Deep Learning” held at National Institute of Science and Technology, Berhampur from September 1, 2018 to September 3, 2018 conducted by leadingindia.ai, a nationwide initiative by Bennett University, Greater Noida, India.
- [7]. Participated in the Workshop on “Disruptive Technology Management” held on 10<sup>th</sup> December, 2016 at National Institute of Science and Technology, Berhampur.
- [8]. QIP/AICTE Sponsored Short-Term Course on “Internet of Things: Convergence of Sensing, Cloud and Big-Data Networking” is organized by Indian Institute of Technology, Kharagpur from 13<sup>th</sup> -26<sup>th</sup> July 2015.
- [9]. Two week ISTE main workshop on “Computer Programming” is organized by Indian Institute of Technology, Bombay at remote center National Institute of Science and Technology from 16<sup>th</sup> June 2014 – 21<sup>st</sup> June 2014.
- [10]. Attended a Workshop on “Modern Trends in Soft Computing and Security Issues” is jointly organized by Indian Statistical Institute, Kolkata and National Institute of Science & Technology, Berhampur, Odisha from 23<sup>rd</sup> -28<sup>th</sup> September 2013.
- [11]. Attended Wipro Mission 10X Workshop on “High Impact Teaching Skills” at National Institute of Science and Technology, Berhampur from 26<sup>th</sup> - 27<sup>th</sup> Sept 2011.
- [12]. Attended IBM Academic National Workshop on “Rational Functional Tester” at National Institute of Science and Technology,

Berhampur from 8<sup>th</sup> – 9<sup>th</sup> Jul2010.

- [13]. Attended IBM Academic National Workshop on “Rational Application Developer” at National Institute of Science and Technology, Berhampur from 8<sup>th</sup> – 9<sup>th</sup> Jan2010.

## ANY OTHER

### MEMBER OF PROFESSIONAL SOCIETIES

[1]. Life Member of ISTE

[2]. Life Member of CSI

### ACHIEVEMENTS

- [1]. Got the **University Foundation Day Research Award-2019** (TEQIP-III, BPUT, Odisha) in Ph.D Research Scholar Category.
- [2] Got the **Academic Honorarium for Research paper publication** at National Institute of Science and Technology for the academic year-2018.