



Suchismita Rout, Ph.D.

Designation : Associate Professor

Department : Department of Computer Engineering
(JOINED THE INSTITUTE IN AUGUST 2011)

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RESEARCH INTERESTS

Experimental condensed matter Physics:

- ✓ Mobile Ad Hoc Network
- ✓ Wireless Sensor Network
- ✓ Software Defined Network
- ✓ Cloud Computing
- ✓ Fog Computing

Academic Qualifications

- ✓ Ph. D. (CSE), KIIT Deemed-To-Be University, Bhubaneswar India.
 - ✓ M. Tech. (CSE), NIT, Rourkela, India.
 - ✓ B. E (CSE), BPUT, Orissa, India.
- Specializations: Computer Science

Teaching Experience/Industrial Experience/Research Experience

- ✓ Teaching Experience: 16 + yrs
- ✓ Research Experience (JRF): 2 yrs 8 months
- ✓ Industry Experience: 4 months

PUBLICATIONS

JOURNAL

- [1]. R Kavitha, RRajeswari, Sudhansu Shekhar Patra, **Suchismita Rout**, "QMwalletChain: Blockchain Traceability using Working Vacation Queueing Model in Mobile Wallet", Turkish Online Journal of Qualitative Inquiry (TOJQI), Vol. 12, no. 8, Pages : 2876- 2889, 2021.
- [2]. **Suchismita Rout**, Samaleswari Prasad Nayak, Partha Sarathi Behera, "AQM: Indoor and Outdoor Air Quality Monitoring using SDN Based IoT Framework supporting Cloud Platform", Journal of Huazhong University of Science and Technology (**Scopus**), Vol. 50, no. 5, Pages: 1-9, 2021.

- [3]. **Suchismita Rout**, Kshira Sagar Sahoo, Sudhansu Sekhar Patra, Bibhudatta Sahoo, and Deepak Puthal. "Energy Efficiency in Software Defined Networking: A Survey." SN Computer Science 2, no. 4, pages: 1-15, 2021.
- [4]. **Suchismita Rout**, Samaleswari Prasad Nayak,"Energy Minimization Technique in SDN using Efficient Routing Policy",Journal of Xi'an University of Architecture & Technology (**Scopus**), Vol. 12, Pages :3512- 3519, 2020.
- [5]. **Suchismita Rout**, Sudhansu Shekhar Patra, and Bibhudatta Sahoo,"Energy Efficient Routing in Software Defined Networking by Efficient Traffic Rule Monitoring Techniques", Jour of Adv Research in Dynamical & Control Systems (**Scopus**), Vol. 10, Pages: 650- 662, 2018.
- [6]. **Suchismita Rout**, Sudhansu Shekhar Patra, and Bibhudatta Sahoo,"Saving energy and improving performance in SDN using rate adaptation technique", International Journal of Engineering & Technology (**Scopus**), 7 (2.6),Pages: 77-82, 2018.
- [7]. Rabindra Kumar Dalei and **Suchismita Rout**, "An Adaptive Power Aware Framework for Energy Efficient Wireless Ad Hoc Network", ACEEE International Journal of Recent Trends in Engineering & Technology, Volume: 11, Pages:248- 254, June 2014.
- [8]. **Suchismita Rout**, Ashok Kumar Turuk, and Bibhudatta Sahoo, "Energy Efficient Routing Protocol in MANET using Power Management Method", International Journal of Basic Applied & Social Sciences (IJBASS), Volume: 1, Issue: 3, Pages: 26-35, May 2013.
- [9]. **Suchismita Rout**, Ashok Kumar Turuk, and Bibhudatta Sahoo, "Review of Transmission Power Control Techniques in MANET", International Journal of Networking and Communication Engineering, January, 2013.
- [10]. **Suchismita Rout**, Ashok Kumar Turuk, and Bibhudatta Sahoo, "Energy Aware Routing Protocol in MANET Using Power Efficient Topology Control Method", International Journal of Computer Application (IJCA-2012), Volume:43, Issue: 5, Pages: 33-42, March 2012.
- [11]. Samaleswari Prasad Nayak, **Suchismita Rout**, Surajit Das, and Sudhansu Shekhar Patra, "Error rate reduction of Air Quality Parameters in Health Care Industry using SD-IoT Environment", 19th OITS International Conference on Information Technology, 16-18 December, 2021.
- [12]. R kavitha, RRajeswari, Pratyusa Mukherjee, **Suchismita Rout**, Sudhansu Shekhar Patra "Performance Measures of Blockchain based Mobile Wallet using Queueing Model",International Conference on Intelligent Systems and Sustainable Computing (ICISSC), September 2021.
- [13]. Mahmoud AlAhmad, Sudhansu Shekhar Patra, Suman Bhattacharya, **Suchismita Rout**, Sachi Nandan Mohanty, Subham Choudhury and Rabindra K Barik, "Priority Based VM Allocation and Bandwidth Management in SDN and Fog Environment," 2021 8th International Conference on Computing for Sustainable Global Development (INDIACom), pp. 29-34, 2021.
- [14]. **Suchismita Rout**, Sudhansu Shekhar Patra, Punyaban Patel and Kshira Sagar Sahoo," Intelligent Load Balancing Techniques in Software Defined Networks : A Systematic Review", IEEE International Symposium on

CONFERENCES

Sustainable Energy, Signal Processing and Cyber Security (ISSC), December 2020.

- [15]. **Suchismita Rout**, Sudhansu Shekhar Patra, and Bibhudatta Sahoo," Load Balancing in SDN using Effective Traffic Engineering Method", IEEE International Conference on Signal Processing and Communication, Pages: 452-456, July 2017.
- [16]. **Suchismita Rout**, Sudhansu Shekhar Patra, and Bibhudatta Sahoo,"Performance Evaluation of the Controller in Software Defined Networking", Springer Advances in Intelligent Systems and Computing(AISC) series, December, Pages: 543-551, December 2016.
- [17]. **Suchismita Rout**, Ashok Kumar Turuk, and Bibhudatta Sahoo, " Energy efficiency in Wireless Ad Hoc Network using Clustering", Proceedings in International Conference on Information Technology (ICIT-09), Bhubaneswar, Pages:223-226, December 21-24, 2009.
- [18]. **Suchismita Rout**, Ashok Kumar Turuk, and Bibhudatta Sahoo," Energy Efficiency in Wireless Network Through Alternate Path Routing", Proceedings in Fourth Innovative Conference on Embedded Systems, Mobile Communication and Computing, (ICEMC2-09), Bangalore, Pages:3-8, July 27-29, 2009.

ANY OTHER

Book Chapter

Sensor Network Applications, Protocols, and Architectures, Pages: 278-306, August 2016.

1. **Suchismita Rout**, Ashok Kumar Turuk, and Bibhudatta Sahoo, "Techniques to Enhance Lifetime of MANET", Handbook of Research on Advanced Wireless

Conferences/ Workshop/
STTP/ FDP attended

COURSE NAME	ORGANIZING INSTITUTE	PLACE & YEAR	DURATION
National Conference on Future Trends in Information & Communication Technology & Applications	SIT, Bhubaneswar	SIT, 2011	2 Days
National Seminar on Application Oriented Networking (NSAON)	SIT, Bhubaneswar	SIT, 2012	2 Days
International Conference on Computing, Communication and Sensor Networks (CCSN)	PIET, Rourkela	PIET, Rourkela, 2012	2 Days
Workshop on Database Management System	IIT, Bombay	Apex, 2013	2 Weeks
National Seminar on Nanosensors and Applications	SIT, Bhubaneswar	SIT, 2013	2 Days

(NSNA)			
Workshop on Computer Programming	IIT, Bombay	SIT, 2014	2 weeks
Workshop on Cloud Computing (WCC)	KIIT, Bhubaneswar	KIITT, 2014	2 Days
Pedagogy for Effective use of ICT in Engineering Education	IIT, Bombay	SIT, 2015	2 Weeks
STTP on Technical Communication	IIT, Bombay	SIT, 2015	1 Week
Short Term Training Program on Induction Training (Module-1)	NITTTR, Kolkata	SIT, 2015	1 Week
National Workshop on Science & Engg. Aspects of Big Data Analysis (SEBDA)	SIT, Bhubaneswar	SIT, 2015	3 Days
Short Term Training Program on Institutional Management	NITTTR, Kolkata	SIT, 2015	1 Week
Workshop on Internet of Things with Cloud and Big Data	KIIT, Bhubaneswar	KIITT, 2015	2 Days
Linux Operating System & Kernel Internals (LOSKI)	SIT, Bhubaneswar	SIT, 2015	2 Days
Workshop on Graph Theory & Application	SIT, Bhubaneswar	SIT, 2015	1 Week
Workshop on Scientific Document Preparation using Latex (SDPL)	SIT, Bhubaneswar	SIT, 2015	2 Days
Workshop on Wireless Sensor Networks with Internet of Things and Cloud Computing (WICC-2016)	SIT, Bhubaneswar	SIT, 2016	2 Days
Workshop on Machine Learning for Big Data Analysis (MLBDA)	SIT, Bhubaneswar	SIT, 2016	1 Week
Workshop on Train the Trainer	SIT, Bhubaneswar	SIT, 2017	4 Days
FDP on Embedded Systems in IoT	AICTE	Trident, Bhubaneswar, 2017	2 Days
FDP on IoT & Cloud Computing	AICTE & ISTE	Trident, Bhubaneswar, 2018	1 week
Build your career in Data Science	Codegnan	Webinar, 2020	1 day
Machine Learning with ScikitLearn	Codegnan	Webinar, 2020	1 day
Introduction to Data Science in Python	University of Michigan	Coursera, 2020	4 weeks
Algorithm and Data Structure in Python	Udemy	Udemy, 2020	2 weeks

Linux applications in Engineering Education	NITTR, Chandigarh	Online mode, 2020	1 week
Post Covid 19, Job Opportunities	Francis Xavier Engineering College	Online mode, 2020	1 day
Intellectual Property and Technological Innovation in COVID Spill Over Societal Benefits	GIET University	Webinar, 2020	1 day
Wipro certified Faculty	WIPRO	Digital mode, 2020	5 weeks
STP on Training for the trainers for Teacher Educators	NITTR, Bhopal	Digital mode, 2020	1 week
Machine Learning and its Applications	SIT, Bhubaneswar	Webinar, 2021	3 days
Software- defined Networks and its Applications	IIT, Bhubaneswar	AICTE STC, 2021	2 Weeks
OITS Conference	SIT, Bhubaneswar	International Conference	3 Days