

Dr. Amit Kumar Singh

Assistant Professor

Department of Information Technology

School of Information Science and Technology

Mob No.: 9873306857

Email: amit.scss@gmail.com

Webpage: <https://scholar.google.com/citations?user=iL39EgsAAAAJ&hl=en>



Education Qualification

	Organization	Year of award
Undergraduate	Aligarh Muslim University (AMU) Aligarh	2003
Post-graduation	Jawaharlal Nehru University (JNU) New Delhi	2010
Ph.D.	Jawaharlal Nehru University (JNU) New Delhi	2015
Post-Doctoral Fellow	National TsingHua University (NTHU), Taiwan	2017

Professional Experience (In Years)

Teaching Experience: More than 5 years

Research Experience: More than 7 years

Areas of Research (Maximum Five Bullet Points)

- Performance Modeling and Simulation
- Wireless networks
- Internet of Things
- Quantum Computing

Publications

1. R. Bansal, A. Kumar, A.K. Singh, S.Kumar (2021). Stochastic filtering based transmissibility estimation of novel coronavirus," *Digital Signal Processing*, vol. 112, p. 103001.
2. S. Beborhta, A. K. Singh, B. Pati and Dilip Senapati(2021), A Robust Energy Optimization and Data Reduction Scheme for IoT Based Indoor Environments Using Local Processing Framework," *J NetwSyst Manage*, vol. 29.
3. G.Nayak, A. K. Singhand D.Senapati (2020), Computational Modeling of Non-Gaussian Option Price Using Non-extensive Tsallis Entropy Framework," *Computational Economics*

vol. pp. 1-19.

4. S Bebortta, D Senapati, NK Rajput, AK Singh, et. al(2020), Evidence of power-law behavior in cognitive IoT applications," Neural Computing and Applications, vol. 32(20), pp.16043-16055.
5. T. Mukherjee, A. K. Singh and D.Senapati (2019), Performance Evaluation of Wireless Communication Systems over Weibull/q-Lognormal Shadowed Fading Using Tsallis Entropy Framework, Wireless Personal Communications, vol. 106 (2), pp. 789-803.
6. A. K. Singh, H. P. Singh and Karmeshu(2015), Analysis of finite buffer queue: Maximum entropy probability distribution with shifted fractional geometric and arithmetic means, IEEE Communication Letters, vol. 19, no. 2,pp. 163-166.
7. A. K. Singh and Karmeshu (2014), Power law behavior of queue size: Maximum entropy principle with shifted geometric mean constraint, IEEE Communication Letters, vol. 18, no. 8, pp. 1335-1338.

Honors, Recognition and Awards

- * Received Junior research fellowship.
- * Received Jacob scholarship during M.Sc.
- * NBHM, PhD scholarship award

Seminar/Conference/Symposia /Workshops Organised

- | | |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Convenor | Two-week Faculty Development Programme on “Recent Advances in Research Methodology” organized by Ramanujan College, January 17- January 28, 2020. |
| Convenor | One week Faculty Development Programme on “ICT Integrated Research In Mathematical Sciences”, organized by Ramanujan College, September 24- September 30, 2018. |

Countries Visited

- Taiwan

Conference/Symposia /Workshops

- Delivered one-day session on *Python Programming*, ABES college, Gaziabad, 2020.
- Presented on *Entropy and its applications* at National conference on Role of Meghnad Saha in Growth of Physics (RMSGP 2019), J. C. Bose University of Science and technology, YMCA, Faridabad, 2019

- Presented a paper entitled *Adaptive applications of maximum entropy principle* ICACIE, 2018.
- Presented a paper entitled *A non-stationary analysis of Erlang loss model*, ICACIE 2018.
- Presented on *Communication Networks and Power law Behavior* at National conference on Role of Science and Technology Towards Make in India YMCA University of Science and Technology, Faridabad held in 2016.
- Workshop on *Applied Mathematics*, South Asian University, New Delhi, May 2013
- Participation in ACM Delhi- NCR Chapter, School of Computer and Systems Sciences, JNU, April,2013
- Attended one month workshop *SERC School* at Centre for Mathematical and Statistical Sciences Pala, Kerala. 2011
- Attended Plagiarism & The Slippery Slope Of Ethics, Seminar, Dr. N. Raghuram, Seminar, School of Computer & Systems Sciences, JNU.
- Attended Seminar on *Optimization via Simulation*, Seminar, Prof. Shalabh Bhatnagar, School of Computer & Systems Sciences, JNU.
- IBM workshop on *Data analytics & Operations research*, held at IIT Delhi, New Delhi. Oct 2010
- National Conference on *Methods & Models in Computing (NCM2C)*, SC&SS, JNU New Delhi. Dec 2010.
- Attended 4th International Sanskrit Computational Linguistics Symposium, JNU New Delhi. Dec 2010

Additional Information (If Any)

- Director, Ramanujan Centre for Applied Mathematics and Research ,Ramanujan College, Oct 2017-Dec 2019.