

## Faculty Profile



**Name:** Dr. Rashmi Sahay

**Designation:** Senior Assistant Professor

**Teaching Areas:** Data Structure, Computer Networks, Network Security, AI.

**Research Interests:** Internet of Thing, Routing Security, Applied ML, Soft Computing

### Education:

- Ph.D. CSE- Security in Internet of Things, Birla Institute of Technology and Science, Pilani
- M.Tech (Computer Science), Birla Institute of Technology, Mesra
- B.E (Electrical Engineering), Rajiv Gandhi Proudyogiki Vishwavidyalaya

### Research / Selected Publications: The following are few of my publications:

1. Rashmi Sahay, Geethakumari, G. & Mitra, B. Correction: Mitigating the worst parent attack in RPL based internet of things. *Cluster Comput* 25, 3765 (2022). <https://doi.org/10.1007/s10586-022-03721-0>
2. . Rashmi Sahay, G. Geethakumari, Barsha Mitra, A Novel Network Partitioning Attack against Routing Protocol in Internet of Things, *Ad Hoc Networks*, Elsevier, 15 June 2021.
3. . Rashmi Sahay, G. Geethakumari, Barsha Mitra, A Holistic Framework for Prediction of Routing Attacks in IoT-LLNs, *The Journal of Supercomputing*, Springer, 9 June 2021, DOI:10.1007/s11227-021-03922-1.
4. . Rashmi Sahay, G. Geethakumari, Barsha Mitra A novel blockchain based framework to secure IoT-LLNs against routing attacks, *Computing*, Springer, Vol. 102, Issue 11, pp. 2445-70, 25 May 2020.
5. • V.S.S. Sriram, Rahul Ramadas, Rashmi Sahay and Gadadhar Sahoo, "Optimizing elliptic curve domain parameters using genetic algorithms", *International Journal of Secure Digital Information Age*, Vol. 1, Issue 2, 2009.
6. • Rashmi Sahay, G. Geethakumari, Barsha Mitra, A Feedforward Neural Network based Model to Predict Sub-optimal Path Attack in IoT-LLNs, In the Proceedings of the 20th IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing (CCGrid 2020), pp. 400-409, May 2020, Melbourne.
7. • Rashmi Sahay, G. Geethakumari and Barsha Mitra, Partitioning Attacks against RPL in the Internet of Things Environment, In the Proceedings of the 26th (Virtual) Annual International Conference on Advanced Computing and Communications (ADCOM 2020), Dec 16-18, 2020, India.

### Book Publication

1. Deep, Manisha Kumari, and **Rashmi Sahay**, *Popular Metaheuristic Optimization Techniques*, University Science Press, Laxmi Publications, 2011.

A complete list of my publications can be found at the following link

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