



**Dr. Rohit Tripathi**  
Assistant Professor  
PhD (IIT Guwahati)  
Department of Computer Science & Engineering  
✉ rohit@iiitg.ac.in  
Joined the Institute in May 2015

## About

I am an Assistant Professor at Computer Science and Engineering Department, IIIT Guwahati. I joined the institute in May, 2015. I completed my PhD from CSE department, IIT Guwahati.

## Research Interests

My research interests include Social Network Analysis, Machine Learning in Social Networks, Game Theory.

## Teaching

I have taught the following courses: operating systems, data structures, game theory and network science.

## PhD positions available (Deadline approaching)

<https://www.iiitg.ac.in/vacancy-for-project-associate-i-cum-phd-1>

## Publication

### Journal

- Kalyanee Devi and Rohit Tripathi, "Identification of best social media influencers using ICIRS model", Computing, (2023), Springer
- Kalyanee Devi and Rohit Tripathi, "ASN: A method of optimality for seed identification in the influence diffusion process", Physica A: Statistical Mechanics and its Applications, (2023), Science direct
- Kalyanee Devi and Rohit Tripathi, "Optimal seed node selection method for LTIS model", Concurrency and Computation: Practice and Experience, (2022), Wiley
- Rohit Tripathi and Shilpa Rao, "Rumor containment in peer-to-peer message sharing online social networks", International Journal of Data Science and Analytics, (2022), Springer
- Kishor Goswami, Hari K Choudhury, Atanu Hazarika, Rohit Tripathi, "An assessment of economic viability of jatropa plantation in North East India", International Journal of Energy Sector Management, (2019), Emerald Publishing Limited
- Rohit Tripathi and Gautam Barua, "Dynamic internet pricing with service level agreements for multihomed clients, Netnomics", September, Volume 17, Issue 2, (2016), pages. 121-156, Springer.

### Book Chapters

- Saurav Kumar and Rohit Tripathi, "Detection of COVID-19 Using Machine Learning", Lecture Notes in Networks and Systems book series (LNNS, volume 586), (2023), Springer

### Conference

- Kalyanee Devi and Rohit Tripathi, "An LTIRS Model for Influence Diffusion Process", COMSNETS, (2022), IEEE
- Kalyanee Devi and Rohit Tripathi, "Applying an Optimal Seed Selection Scheme Under a Progressive Model", ICCNT, (2022), IEEE
- Kalyanee Devi and Rohit Tripathi, "Efficient Seed Selection for IC-IS Multiphase Diffusion Model", IEEE ANTS, (2021), IEEE
- Shilpa Rao and Rohit Tripathi, "Friendly Jamming in Wireless Networks: A Stackelberg Game", APNOMS, (2021), IEEE
- Kalyanee Devi and Rohit Tripathi, "Social Network Analysis for efficient delivery of Agricultural Extension Services", ICCNT, (2020), IEEE
- Kalyanee Devi and Rohit Tripathi, "Information diffusion within a limited budget using node centralities and community detection", APNOMS, (2020), IEEE
- Rohit Tripathi and Shilpa Rao, "Positive information diffusion for rumor containment in online social networks", COMSNETS, (2020), IEEE
- Rohit Tripathi, "ISP's Pricing Strategy: Advance vs Simultaneous", COMSNETS, (2019), IEEE
- Rohit Tripathi, "Effect of Penalties on the Service that Multihomed Internet Clients Receive", Wispnet, (2019), IEEE
- Rohit Tripathi, "Effect of the penalty on the qos received by multihomed clients", APNOMS, (2017), IEEE
- Rohit Tripathi and Gautam Barua, "Pricing with Bandwidth Guarantees for Clients with multi-ISP Connections", The 16th International Conference on Distributed Computing and Networking (ICDCN 2015), January 3-5, (2015), Goa.
- Rohit Tripathi and Gautam Barua, "Dynamic Internet Pricing and Bandwidth Guarantees with Nash Equilibrium", APNOMS 2014, The 16th Asia-Pacific Network Operations and Management Symposium, September 17-19, (2014), National Chiao Tung University, Taiwan.



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