

## Dr. Bivas Mitra,

<http://cse.iitkgp.ac.in/~bivasm/>

Associate Professor, Department of CSE, IIT Kharagpur

### ▪ Educational Qualification (Bachelor to Doctoral):

- PhD in Computer Science and Engineering, IIT Kharagpur (2011)
- M Tech in Computer Science and Engineering, IIT Kharagpur (2003)
- B Tech in Computer Science and Engineering, Vidyasagar University (2001)

### ▪ Professional Experience:

- Associate Professor (CSE), IIT Kharagpur (March 2020 – Present)
- Assistant Professor (CSE), IIT Kharagpur (April 2013 – March 2020)
- Chief Engineer, Samsung Electronics, Noida (August 2012-March 2013)
- Postdoctoral Researcher, Université Catholique de Louvain (UCL), Belgium, (July 2011-July 2012)
- Postdoctoral Researcher, French National Centre for Scientific Research (CNRS), Paris, France, (May 2010-June 2011)

### ▪ Specialization and Expertise: Socio-Mobile Applications, Data science, Affective computing

### ▪ Awards and Distinctions:

- NetApp Faculty Fellowship , Oct. 2018.
- “Best Student Paper Award” in IEEE MDM 2017, KAIST, Daejeon, South Korea.
- Best Poster Award, Xerox Research Symposium (XRCI Open 2014), Bangalore
- DAAD-IIT Faculty Exchange Fellowship, 2014, German Academic Exchange Service (DAAD)
- SAP Lab India Doctoral Fellowship, January 2008-May 2010, SAP Lab India
- National Doctoral Fellowship, January 2007-Dec 2007, AICTE

### ▪ Top publications in last ten years:

1. Soumajit Pramanik, Surya Teja Gora, Ravi Sundaram, Niloy Ganguly and **Bivas Mitra**, "On the Migration of Researchers across Scientific Domains", *ICWSM 2019*, Munich, Germany, June 2019.
2. Snigdha Das, Soumyajit Chatterjee, Sandip Chakraborty and **Bivas Mitra**, "GroupSense: A Lightweight Framework for Group Identification", *IEEE Transactions on Mobile Computing*, 2018 (In-press).
3. Rohit Verma, Surjya Ghosh, Saketh Mahankali, Niloy Ganguly, **Bivas Mitra**, Sandip Chakraborty, "ComfRide: A Smartphone based System for Comfortable Public Transport Recommendation", *ACM RecSys 2018*, Vancouver, Canada, Oct. 2018.
4. Subhendu Khatuya, Niloy Ganguly, Jayanta Basak, Madhumita Bharde and **Bivas Mitra**, "ADELE: Anomaly Detection from Event Log Empiricism", *IEEE INFOCOM 2018*, Honolulu, HI, USA, April 2018.
5. Rohit Verma, Gyanesha Prajjwal, **Bivas Mitra** and Sandip Chakraborty, "Mining Spatio-temporal Data for Computing Driver Stress and Observing Its Effects on Driving Behavior", *ACM SIGSPATIAL 2018*, Seattle, Washington, USA, Nov. 2018. (Short paper)
6. Rohit Verma, Surjya Ghosh, Niloy Ganguly, **Bivas Mitra** and Sandip Chakraborty, "Smart-phone based Spatio-temporal Sensing for Annotated Transit Map Generation", *ACM SIGSPATIAL 2017*, Redondo Beach, California, USA, Nov. 2017.
7. Surjya Ghosh, Niloy Ganguly, **Bivas Mitra**, Pradipta De, "TapSense: Combining Self-Report Patterns and Typing Characteristics for Smartphone based Emotion Detection", *MobileHCI 2017*, Vienna, Austria, Sep 2017.
8. Surjya Ghosh, Niloy Ganguly, **Bivas Mitra**, Pradipta De, "Evaluating Effectiveness of Smartphone Typing as an Indicator of User Emotion", *ACII 2017*, San Antonio, Texas, USA, October 2017.

9. Rohit Verma, Aviral Shrivastava, **Bivas Mitra**, Sujoy Saha, Niloy Ganguly, Subrata Nandi and Sandip Chakraborty, "UrbanEye: An Outdoor Localization System for Public Transport", *IEEE INFOCOM 2016*, San Francisco, CA, USA, April 10-15, 2016
10. Sourav Kumar Dandapat, Swadhin Pradhan, **Bivas Mitra**, Romit Roy Choudhury, Niloy Ganguly, "ActivPass: Your Daily Activity is Your Password", *ACM SIGCHI 2015*, Seoul, Korea, April 2015
11. Saurabh Gupta, Sayan Pathak, **Bivas Mitra**, "Complementary usage of Tips and Reviews for Location Recommendation in Yelp", *PA-KDD 2015*, Ho Chi Minh City, Vietnam, May 2015.
12. Joydeep Chandra, **Bivas Mitra** and Niloy Ganguly, "Effect of Constraints on Superpeer Topologies", *IEEE INFOCOM 2013* (Mini-Conference), Turin, Italy, April 2013.
13. Animesh Srivastava, **Bivas Mitra**, Niloy Ganguly, and Fernando Peruani, "Correlations in Complex Networks Under Attack", *Physical Review E*, 86, 2012.
14. **Bivas Mitra**, Lionel Tabourier, Camille Roth, "Intrinsically Dynamic Network Communities", *Computer Networks*, Vol. 56, pp 1041–1053, 2012.
15. Sourav Kumar Dandapat, **Bivas Mitra**, Romit Roy Choudhury and Niloy Ganguly, "Smart Association Control in Wireless Mobile Environment Using Max-Flow", *IEEE Transactions on Network and Service Management*, Vol. 9, No. 1, pp. 73 – 86, March 2012.
16. **Bivas Mitra**, Abhishek Kumar Dubey, Sujoy Ghose, Niloy Ganguly, "How do Superpeer Networks Emerge?", *IEEE INFOCOM 2010*, San Diego, USA, March 2010.

▪ **Major sponsored R&D projects completed/handled:**

1. Project Title: Model Development for Storage System Troubleshooting and Workload Characterization  
 Funding Agency: NetApp India Private Limited, Bangalore  
 Project Duration: 2018-2020  
 Role: Principal Investigator

2. Project Title: Evolving Communities and Information Spreading (Collaborative Project with CNRS-UPMC, Paris, France)  
 Funding Agency: Indo-French Center for the Promotion of Advanced Research  
 Project Duration: 2014-2017  
 Role: Principal Investigator

3. Behavior Modeling in Multi-Sensor Environments - Integrating Environment Sensing, Human Sensing & Social Sensing for Rich Insights  
 Funding Agency: TCS Innovation Lab, New Delhi  
 Project Duration: 2018-2020  
 Role: Co-Principal Investigator

4. Project Title: Post-disaster Situation Analysis and Resource Management using Delay-Tolerant Peer-to-Peer Wireless Networks (DISARM)  
 Funding Agency: ITRA-Media Lab Asia, DIT  
 Project Duration: 2013-2018  
 Role: Co-Principal Investigator

5. Project Title: Characterization & modelling information cascade appearing in social media in response to specific emergency events (DYCIN) – topping up grant of DISARM  
 Funding Agency: Indo-Belgian Research and Technology Cooperation  
 Project Duration: 2014-2017  
 Role: Co-Principal Investigator

6. Project Title: Teaching Learning Centre for Internet-of-things  
 Funding Agency: MHRD  
 Project Duration: 2016-2019  
 Role: Co-Principal Investigator

**Technology development/translation/initiation**

Patent Published

- Method and Apparatus for Detecting Malware and Recording Medium Thereof, US 2014/0351934 A1, November 2014, USA (with Samsung Electronics)