

# Niloy Ganguly

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Research Group: Complex Network Research Group (CNeRG) • <http://www.cnergres.iitkgp.ac.in/>

## POSITIONS HELD

### Indian Institute of Technology Kharagpur, India

- Professor Apr 2014 – Present
- Associate Professor Feb 2009 – Apr 2014
- Assistant Professor Jun 2005 – Feb 2009

### Technical University of Dresden, Germany

- Research Scientist Jul 2003 – May 2005

## EDUCATION

### Indian Institute of Engineering Science and Technology, Shibpur, India

- Ph.D. in Computer Science and Engineering Jun 2004

### Indian Institute of Technology Kharagpur, India

- B.Tech. in Computer Science and Engineering 1992

## RESEARCH INTEREST

### Social Computing, Machine Learning, Network Science

## SELECTED HONORS AWARDS

- Best Paper Award, CODS-COMAD** 2019
- Fellow of National Academy of Engineering (FNAE)** 2018
- Cisco Faculty Gift** 2017
- NetApp Faculty Fellowship** 2016
- NSF TCPP Early-Adopter Award** 2013
- Samsung GRO Award** 2012
- Yahoo Faculty Gift** 2012
- Best Paper Award, CODS-COMAD** 2019
- Best Student Paper Award, ASONAM** 2016
- Best Paper Award IEEE TrustCom** 2012
- Honourable Mention (2nd Best Paper), VLSID conference** 2003

## SELECTED PROFESSIONAL ACTIVITIES

- Sponsorship Chair, CODS-COMAD Conference** 2020
- General Chair, CODS-COMAD Conference** 2018
- General Chair, COMSNETS Conference** 2017
- Technical Program Chair, COMSNETS Conference** 2016
- Technical Program Chair, NetSciCom - A workshop of Infocom** 2016
- Poster Chair, ACM WWW Conference** 2015
- PhD Forum Chair, ACM DEBS Conference** 2014

## PH.D. STUDENTS GUIDED

Graduated 17 Ph.D. 8 M.S.

Students obtained Intel, Google, Microsoft, SAP, TCS Ph.D. Fellowship

## SELECTED RECENT PUBLICATIONS

### CONFERENCES

- Gourab K Patro, Abhijnan Chakraborty, Niloy Ganguly and Krishna P. Gummadi, *Incremental Fairness in Two-Sided Market Platforms: On Smoothly Updating Recommendations*, The Web Conference (WWW 2020), Taiwan, April, 2020
- Abir De, Paramita Koley, Niloy Ganguly, Manuel Gomez Rodriguez, *Regression Under Human Assistance*, AAAI 2020, New York
- Gourab Kumar Patro, Abhijnan Chakraborty, Niloy Ganguly, Krishna Gummadi *Incremental Fairness in Two-Sided Market Platforms: On Updating Recommendations Fairly* AAAI 2020, New York
- Bidisha Samanta, Niloy Ganguly and Soumen Chakrabarti, *Improved Sentiment Detection via Label Transfer from Monolingual to Synthetic Code-Switched Text*, ACL. 2019
- Bidisha Samanta, Sharmila Reddy Nangi, Hussain Jagirdar, Niloy Ganguly, Soumen Chakrabarti *A Deep Generative Model for Code Switched Text* IJCAI 2019.
- Satadal Sengupta, Niloy Ganguly, Pradipta De, Sandip Chakraborty, *Exploiting Diversity in Android TLS Implementations for Mobile App Traffic Classification*, The Web Conference (WWW 2019),1657-1668, San Fransisco, USA, May 13-17, 2019.
- Avirup Saha, Niloy Ganguly, Sandip Chakraborty, Abir De *Learning Network Traffic Dynamics Using Temporal Point Process*, Infocom, Paris, 29 April - 2 May 2019, Paris, France
- Bidisha Samanta, Abir De, Gourhari Jana, Pratim Kumar Chattaraj, Niloy Ganguly, Manuel Gomez Rodriguez *Designing Deep Generative Models for Molecular Graphs*, AAAI 2019, January 27 - Feb1, 2019, Honolulu, Hawaii,
- Koustav Rudra, Pawan Goyal, Niloy Ganguly, Prasenjit Mitra and Muhammad Imran *Identifying Sub-events and Summarizing Information during Disasters* ACM SIGIR, Ann Arbor Michigan, U.S.A. July 8-12, 2018.
- Abir De, Sourangshu Bhattacharya, Niloy Ganguly. *Shaping Opinion Dynamics in Social Networks*, AAMAS, 2018, Stockholm
- Abir. De, Sourangshu. Bhattacharya, and Niloy. Ganguly. *Demarcating Endogenous and Exogenous Opinion Diffusion Process on Social Networks*. WWW, 2018. Lyon, France, 2018
- Abhijnan Chakraborty, Saptarshi Ghosh, Niloy Ganguly, Krishna P. Gummadi. *Optimizing the Recency-Relevancy Trade-off in Online News Recommendations* WWW 2017, Perth, Australia
- Abir De, Isabel Valera, Niloy Ganguly, Sourangshu Bhattacharya, Manuel Gomez-Rodrigue. *Learning and Forecasting Opinion Dynamics in Social Network*, NIPS'16, Barcelona, Spain

### JOURNALS

- Surjya Ghosh, Niloy Ganguly, Bivas Mitra, Pradipta De, *Designing An Experience Sampling Method for Smartphone based Emotion Detection*, IEEE Transaction on Affective Computing, 2019
- Koustav Rudra, Ashish Sharma, Kalika Bali, Monojit Choudhury, Niloy Ganguly, *Identifying and Analyzing different Aspects of English-Hindi Code-Switching in Twitter*, ACM Transaction on Asian and Low-Resource Language Information Processing, 2019
- Madhumita Mallick, Palani Kodeswaran, Sayandeep Sen, Ravi Kokku and Niloy Ganguly, *TSFS: An Integrated Approach for Event Segmentation and ADL Detection in IoT enabled Smarthomes*, IEEE Transaction on Mobile Computing, 2019.
- Koustav Rudra, Ashish Sharma, Niloy Ganguly and Saptarshi Ghosh. *Characterizing and Countering Communal Microblogs during Disaster Events* IEEE Transactions on Computational Social Systems, 5(2): 403-417 (2018)
- Koustav Rudra, Niloy Ganguly, Pawan Goyal and Saptarshi Ghosh. *Extracting and Summarizing Situational Information from the Twitter Social Media during Disasters*, ACM Transactions on the Web (TWEB), 12(3): 17:1-17:35 (2018)
- Abir De, Sourangshu Bhattacharya, Sourav Sarkar, Niloy Ganguly, Soumen Chakraborty. *Discriminative Link Prediction using Local, Community and Global Signals*. IEEE Transactions on Knowledge & Data Engineering, 28(8): 2057-2070 (2016).
- Tanmoy Chakraborty, Ayushi Dalmia, Animesh Mukherjee, Niloy Ganguly. *Metrics for Community Analysis: A Survey* ACM Computing Surveys. Volume 50 Issue 4, November 2017
- Tanmoy Chakraborty, Suhansanu Kumar, Niloy Ganguly, Animesh Mukherjee, Sanjukta Bhowmick. *GenPerm: A Unified Method for Detecting Non-overlapping and Overlapping Communities*. IEEE Transactions on Knowledge and Data Engineering (TKDE), 2016, 28(8): 2101-2114.

## PUBLICATION SUMMARY

Publications in both Physics and Computer Science

- 60 Journals, 160 Conferences
- Physics-related publications highlight - [Physical Review E](#), [Euro Physics Journal B](#), Physica A, Euro Physics Letter.
- Computer Science publication - DBLP Profile: [Ganguly:Niloy.html](#)
- Complete list of publications is available [here](#)
- Google Scholar Profile is available [here](#)

## SELECTED INVITED/ KEYNOTE TALKS

For full list check [here](#)

<a href="#">Invited Speaker</a> LinkedIn-MSR-IISc workshop on Fairness, Accountability, Transparency and Ethics in Machine Learning, Jan 2020	
<a href="#">Invited Speaker</a> Learning with Temporal Point Processes NeurIPS 2019 Workshop,	Dec 2019
<a href="#">Invited Talk</a> Adobe Labs, San Jose	May 2019
<a href="#">Invited Talk</a> Flipkart Annual Event - Slash n	Apr 2019
<a href="#">Invited Talk</a> Theoretical Basis of Machine Learning, ICTS, Bangalore	Dec 2018
<a href="#">Invited Talk</a> Adobe Development Talk Series Bangalore	Jun 2018
<a href="#">Keynote Speaker</a> , Big Data Analytics, IIIT Hyderabad	Dec 2017
<a href="#">Distinguished Speaker</a> , Northeastern University, College of Computer and Information Science, Boston, Massachusetts Oct 2017	
<a href="#">Invited Talk</a> , IKDD, Data Science In India Colocated with KDD 2017, Halifax, Nova Scotia, Canada	Aug 2017
<a href="#">Keynote Speaker</a> , IBM I-CARE Conference, Bangalore	Oct 2016
<a href="#">Invited Speaker</a> , ACM-MSR India Research Summit, Infosys Park, Pune	Jan 2016
Invited Speaker, TCS, TACTiCS Conference on Social Media Analytics, Yantra Park, Thane	Jan 2016
Invited Speaker, HP Labs, Palo Alto, California,	Apr 2016

## MAJOR RESEARCH GRANTS

### Ongoing projects

- Sponsor: Indo-Korea Science and Technology Center:  
*Prediction of Properties of Materials*  
Worth: Rs. 16 Lakh, Duration 2019 - 2021.
- Sponsor: Huawei Technologies India Private Limited, Business office:  
*Anomaly Detection using Logs*  
Worth: Rs. 47 Lakh, Duration 2019 - 2021.
- Sponsor: Huawei Technologies India Private Limited, Business office:  
*Anomaly Detection in Big Data Cluster*  
Worth: Rs. 20 Lakh, Duration 2019 - 2021.
- Sponsor: [IMPRINT-2](#)  
*CONVERSATION AGENTS FOR URBAN NAVIGATION*  
Worth: \$40K(Rs 28Lakh), Duration 2019 - 2022.
- Sponsor: Scenario Apex Committee of SPARC  
*Generating Actionable and Reliable Summaries from Social Media in a Post-Disaster*  
Worth: Rs. 49 Lakh. Duration 2019 - 2021.
- Sponsor: Scenario Apex Committee of SPARC  
*Where the Mind is Without Fear - Developing Enablers for Safe Communication in Online Social Networks*  
Worth: Rs. 49 Lakh. Duration 2019 - 2021.
- Sponsor: Tata Consultancy Limited  
*Behavior Modeling in Multi-sensor Environments Integrating environment sensing, human sensing and social sensing for rich insights*  
Worth: \$101K(Rs 71Lakh), Duration 2018 - 2020.
- Sponsor: INTEL Technology India Pvt. Ltd.  
*Traffic Engineering for Enabling Energy-aware Design in Next Generation Cellular Networks*  
Worth: \$135K, Duration 2018 - 2021.
- Sponsor: INTEL Technology India Pvt. Ltd.  
*Learning Representations from Network Data*  
Worth: \$151K(Rs 108Lakh), Duration 2017 - 2020.
- Sponsor: [IMPRINT](#)  
*CityProbe: A City-Scale Pervasive Sensing System for Monitoring Road Conditions, Air and Sound Pollution*  
Worth: \$85K(Rs 60Lakh), Duration 2017 - 2020.
- Sponsor: [IMPRINT](#)  
*Development of a Remote Healthcare Delivery System: Early Diagnosis, Therapy, Follow-up and Preventive Care for Non-communicable Diseases (Cardio-pulmonary)*  
Worth: \$352K(Rs 248Lakh), Duration 2017 - 2020.
- Sponsor: HEWLETT-PACKARD (INDIA) Software Operation Pvt. Ltd.  
*Property Preserving Data Gradation for Autonomous Vehicle Data*  
Worth: \$17K(Rs 12Lakh ), Duration 2018 - 2023
- Sponsor: CISCO University Research Program Fund  
*Understanding and Predicting Opinion Dynamics In Collective Environment Using Deep Network Representation*  
Worth: \$63K(Rs 44Lakh), Duration 2017 - 2022
- Sponsor: Accenture Corporation  
*Online Social Media for Understanding and Countering Disease Outbreak*  
Worth: \$23K(Rs 16Lakh), Duration 2017 - 2022
- Sponsor: Adobe Systems Inc  
*Computational Aspects and Role of Content for Persuasive Brand Positioning*  
Worth: \$14K(Rs 10Lakh), Duration 2017 - 2020
- Sponsor: NetApp India Private Limited  
*Real Time Failure Prediction System*

- Worth: \$18K(Rs 12Lakh), Duration 2016 - 2020
- Sponsor: MICROSOFT RESEARCH LAB. India Pvt. Ltd.  
*Understanding Different Pragmatic Functions Behind Code-Switching*  
Worth: \$3.5K(Rs 2.5Lakh), Duration 2016 - 2021
  - Sponsor: Hewlett Packard (India) Software Operations Private Limited  
*Efficiently Managing Storage Space in IOT (Internet of Things)*  
Worth: \$14K(Rs 10Lakh), Duration 2016 - 2024
  - Sponsor: Flipkart Internet Private Ltd.  
*Social computing for e-commerce*  
Worth: \$14K(Rs 10Lakh), Duration 2015 - 2021
  - Sponsor: [Data Transparency Lab](#)  
*Exposing Demographic Biases on Social Media*  
Joint Project with Max Planc Institute, Software Systems, Saarbruken.  
Worth: \$50K, Duration 2018 - 2019.
  - Sponsor: Indo-Belgian Research and Technology Cooperation  
*Analyzing the Dynamics of Critical Information Diffusion on Social Media: A Network Science Initiative (DyCiN)*  
Worth: \$16K(Rs 11.4Lakh), Duration 2016 - 2019
  - Sponsor: IoTimize LLC  
*Classification & Progression Modelling of Cardiovascular & Pulmonary Diseases Using Advanced Data Analytics and Machine Learning Techniques*  
Worth: \$13K(Rs 9.3Lakh), Duration 2016 - 2021
  - Sponsor: NetApp India Private Limited check  
*Real time fault prediction system*  
Worth: \$4K(Rs 3Lakh), Duration 2014 - 2019
  - Sponsor: Dr. M Chelliah, Head, Academic Relations, Yahoo India R & D  
*Unrestricted grant for research in social networks and user-generated content*  
Worth: \$12K(Rs 8.4Lakh), Duration 2014 - 2020
  - Sponsor: NSF and Intel grants to Georgia State University  
*NSF and Intel Grants to Georgia State University*  
Worth: \$1.7K(Rs 1.2Lakh), Duration 2014 - 2020
  - Sponsor: Yahoo  
*Identifying topical experts on twitter*  
Worth: \$3.5K(Rs 2.5Lakh), Duration 2013 - 2019
  - Sponsor: Samsung Electronics Co.Ltd.  
*Leveraging bipartite network to investigate the dynamical properties of socio-technical systems*  
Worth: \$57K(Rs 40Lakh), Duration 2012 - 2021
  - Sponsor: Advanced Technology Group (ATG)  
*Development for Storage System Troubleshooting and Workload Characterization*  
Worth: \$18K(Rs 13Lakh), Duration 2018 - 2020
  - Sponsor: Samsung India Electronics Pvt Ltd  
*Self Evolving and Language Independent knowledge Graphs*  
Worth: \$50K(Rs 35.4Lakh), Duration 2018 - 2019
  - Sponsor: Hewlett Packard (India) Software Operations Private Limited  
*QoS Based Network Resource Management to Cater to Dynamic Workload Mobility in Hyperconverged Architecture*  
Worth: \$20.5K(Rs 14.4Lakh), Duration 2016 - 2022
  - Sponsor: Indian National Science Academy  
*From Word Senses to Entity Roles: Identifying Temporal and Media-specific Scopes Through Big Data Analytics*  
Worth: \$7K(Rs 5Lakh), Duration 2016 - 2021
  - Sponsor: Flipkart Internet Private Ltd.  
*Unrestricted Grant for Estimation of Product Response using Temporal Modeling of Past Events*  
Worth: \$4.6K(Rs 3.3Lakh), Duration 2016 - 2021
  - Sponsor: GOOGLE India Pvt. Ltd.  
*Unrestricted Fund for Social Computing*  
Worth: \$2.8K(Rs 2Lakh), Duration 2015 - 2020

- Sponsor: MICROSOFT Co.  
*Research grant in social computing*  
Worth: \$3.5K(Rs 2.5Lakh), Duration 2014 - 2019
- Sponsor: Information Technology Research Academy (ITRA)  
*Post disaster situation analysis and resource management using delay tolerant peer to peer wireless networks*  
Worth: \$126K(Rs 90L ), Duration 2013 - 2018
- Sponsor: BHARAT ELECTRONICS LIMITED  
*Design and Development of Activity/Event Based Authentication Framework*  
Worth: \$14K(Rs 10Lakh), Duration 2013 - 2018
- Sponsor: Department of Science and Technology(DST)  
*Data driven approaches for inferring opinion dynamics on social networks*  
Worth: \$12K(Rs 8.6Lakh), Duration 2015 - 2017
- Sponsor: Department of Science and Technology(DST)  
*Understanding, leveraging and deploying online social networks*  
Worth: \$85K(Rs 60Lakh), Duration 2012 - 2017
- Sponsor: IIMA Idea Telecom Centres of Excellence (IITCOE)  
*Development of a novel authentication system using daily activity*  
Worth: \$8K(Rs 6Lakh), Duration 2015 - 2016
- Sponsor: CSIR, NEW DELHI  
*Enhancing cloud efficiency through P2P - based architectures*  
Worth: \$23K(Rs 16L), Duration 2012 - 2015
- Sponsor: Department of Science and Technology(DST)  
*BUILDING COLLABORATIVE DOWNLOAD FRAMEWORK FOR WIRED AND WIRELESS NETWORKS*  
Worth: \$59K(Rs 42Lakh), Duration 2011 - 2015
- Sponsor: DIT,New Delhi  
*BUILDING DELAY TOLERANT PEER-TO-PEER NETWORK*
- Sponsor: Department of Science and Technology(DST)  
*DESIGNING ROBUST & SELF ORGANIZED PUBLISH SUBSCRIBE SYSTEM OVER PEER TO PEER (P2P) NETWORKS*
- Sponsor: Department of Science and Technology(DST)  
*DESIGNING SELF-ORGANIZED ADAPTIVE SERVICES FOR OPEN-SOURCE INTERNET TELEPHONY OVER P2P NETWORKS*
- Sponsor: APPLIED RESEARCH WORKS INDIA PVT. LTD.  
*DISTRIBUTED DATA SYNCHRONIZATION ALGORITHMS*
- Sponsor: ISIRD, SRIC  
*DEVELOPING ROBUST AND EFFICIENT SERVICES FOR PEER TO PEER NETWORK*
- Sponsor: Science and Engineering Research Board (SERB)  
*Fast and communication efficient distributed supervised machine learning system using big data platforms*  
Worth: \$60K(Rs 42Lakh), Duration 2015 - 2018
- Sponsor: BHARAT ELECTRONICS LIMITED  
*Design and Development of Security Module to Prevent Information Leakage from Android Systems*  
Worth: \$14K(Rs 10Lakh), Duration 2016 - 2018
- Sponsor: Indo-French Centre for the promotion of Avanced Research (CEFIPRA)  
*Evolving communities and information spreading*  
Worth: \$37K(Rs 26Lakh), Duration 2014 - 2017
- Sponsor: Department of Science and Technology(DST)  
*FUZZY TECHNIQUES FOR OPINION MINING IN A SOCIAL NETWORKING ENVIRONMENT*
- Sponsor: CSIR, NEW DELHI  
*Identification of Motifs in integrated Cellular Networks*  
Worth: \$17.8K(Rs 12Lakh), Duration 2011 - 2014
- Sponsor: VODAFONE ESSAR (VEICET)  
*OPTIMAL SOLUTIONS AND APPLICATIONS FOR THE NEXT GENERATION WIRELESS INTERNET*  
Worth: \$64.6K(Rs 46Lakh), Duration 2009 - 2013
- Sponsor: GOOGLE INDIA PRIVATE LIMITED  
*Google Travel Fund*

Worth: \$1.8K(Rs 1.30Lakh), Duration 2012 - 2012  
More details of running and completed projects [here](#)

## COVERAGE OF RESEARCH WORK IN POPULAR MEDIA

**Times of India**, [My interview in Times of India](#)

**Economic Times**, [Coverage of work on Clickbait](#)

Publicatons: ASONAM'16, CSCW'18

Jan 2018

**SIAM News**, [Coverage of work on opinion dynamics](#)

Publicatons: NIPS'16

Jul 2016

**MIT Technology Review**, [Coverage of work on Activity Based Password](#)

Publicatons: SIGCHI'15

Apr 2015

**The Telegraph India**, [Coverage of work on Indian Railways](#)

Publicatons: Physica A

Jan 2012

**GIGAOM**, [Coverage of work on ?](#)

Publicatons: WWW 2012

Apr 2012

## COMPLETE PUBLICATIONS

### CONFERENCE COMPLETE LIST

- Gourab Kumar Patro, Abhijnan Chakraborty, Niloy Ganguly and Krishna Gummadi *Incremental Fairness in Two-Sided Market Platforms: On Smoothly Updating Recommendations* The Web Conference (WWW'2020), Taiwan
- Abir De, Paramita Koley, Niloy Ganguly, Manuel Gomez Rodriguez *Regression Under Human Assistance* AAAI 2020, New York
- Gourab Kumar Patro, Abhijnan Chakraborty, Niloy Ganguly, Krishna Gummadi *Incremental Fairness in Two-Sided Market Platforms: On Updating Recommendations Fairly* AAAI 2020, New York
- Abhirut Gupta, Sandipan Sikdar, Prateeti Mohapatra and Niloy Ganguly *Topic Influence Graph Based Analysis of Seminal Papers* CODS-COMAD, 2020, Hyderabad 2019
- Soumyadeep Roy, Koustav Rudra, Nikhil Agrawal, Shamik Sural and Niloy Ganguly *Towards an Aspect-based Ranking Model for Clinical Trial Search* 8th International Conference on Computational Data and Social Networks (CSoNet 2019).
- Soumya Sharma, Bishal Santra, Abhik Jana, Tyss Santosh, Niloy Ganguly and Pawan Goyal *Incorporating Domain Knowledge into Medical NLI using Knowledge Graphs* EMNLP-IJCNLP 2019 (short paper)
- Ashish Sharma, Koustav Rudra and Niloy Ganguly *Going Beyond Content Richness: Verified Information Aware Summarization of Crisis-Related Microblogs*, ACM CIKM 2019
- Surjya Ghosh, Shivam Goenka, Niloy Ganguly, Bivas Mitra and Pradipta De *Representation Learning for Emotion Recognition from Smartphone Keyboard Interactions* ACII, Cambridge, England in September 3-6, 2019.
- Bidisha Samanta, Niloy Ganguly and Soumen Chakrabarti, *Improved Sentiment Detection via Label Transfer from Monolingual to Synthetic Code-Switched Text*, ACL. 2019
- Bidisha Samanta, Sharmila Reddy Nangi, Hussain Jagirdar, Niloy Ganguly, Soumen Chakrabarti *A Deep Generative Model for Code Switched Text* IJCAI 2019.
- Soumyadeep Roy, Niloy Ganguly, Shamik Sural, Niyati Chhaya and Anandhavelu Natarajan, *Understanding Brand consistency from Web content*, ACM WebScience'19
- Tyss Santosh, Vishal Garimella, Avirup Saham Niloy Ganguly, *AttentiveChecker: A Bi-Directional Attention Flow Mechanism for Fact Verification*, NAACL-HTL 2019 (short paper)
- Satadal Sengupta, Niloy Ganguly, Pradipta De, Sandip Chakraborty, *Exploiting Diversity in Android TLS Implementations for Mobile App Traffic Classification*, The Web Conference (WWW 2019),1657-1668, San Fransisco, USA, May 13-17, 2019.
- Surjya Ghosh, Kaustubh Hiware, Niloy Ganguly, Bivas Mitra, Pradipta De *Does Emotion Influence the Use of Auto-suggest during Smartphone Typing?*, ACM IUI 2019, (144-149), March 17-20, Los Angeles
- Avirup Saha, Niloy Ganguly, Sandip Chakraborty, Abir De *Learning Network Traffic Dynamics Using Temporal Point Process*, Infocom, Paris, 29 April - 2 May 2019, Paris, France

- Soumajit Pramanik, Surya Teja Gora, Ravi Sundaram, Niloy Ganguly, Bivas Mitra *On the Migration of Researchers across Scientific Domains*, ICWSM, Munich, June 11-14, 2019
- Abhijnan Chakraborty, Gourab K. Patro, Niloy Ganguly, Krishna P. Gummadi, Patrick Loiseau: *Equality of Voice: Towards Fair Representation in Crowdsourced Top-K Recommendations*. FAT 2019: 129-138, Atlanta, GA, USA, January 2019.
- Bidisha Samanta, Abir De, Gourhari Jana, Pratim Kumar Chattaraj, Niloy Ganguly, Manuel Gomez Rodriguez *Designing Deep Generative Models for Molecular Graphs*, AAAI 2019, January 27 - Feb1, 2019, Honolulu, Hawaii,
- Pradumn Pandey, Sourangshu Bhattacharya and Niloy Ganguly *Paper: Non-link Preserving Network Embedding using Subspace Learning for Network Reconstruction*, Cods-Comad 2019 (Research Track), 10-17,(short paper) Jan 3-5, 2019, Kolkata
- Shalmoli Ghosh, Koustav Rudra, Saptarshi Ghosh, Niloy Ganguly, Sanjay Podder, Naveen Balani and Neville Dubash *Identifying Multi-dimensional Information from Microblogs During Epidemics*, Cods-Comad 2019 (Industrial Track),224-230, Jan 3-5, 2019, Kolkata
- Avirup Saha, Bidisha Samanta, Niloy Ganguly and Abir De *CRPP: Competing Recurrent Point Process for Modeling Visibility Dynamics in Information Diffusion*, CIKM, 2018, Lingotto, Turin Italy.
- Satadal Sengupta, Niloy Ganguly, Sandip Chakraborty, Pradipta De, *HotDASH: Hotspot Aware Adaptive Video Streaming using Deep Reinforcement Learning*, ICNP 2018, Cambridge
- Rohit Verma, Surjya Ghosh, Saketh Mahankali, Niloy Ganguly, Bivas Mitra, Sandip Chakraborty *ComfRide: A Smartphone based System for Comfortable Public Transport Recommendation*, Recsys 2018, Vancouver
- Abhijnan Chakraborty and Niloy Ganguly, *Analyzing the News Coverage of Personalized Newspapers* ASONAM, 2018
- Koustav Rudra, Pawan Goyal, Niloy Ganguly, Prasenjit Mitra and Muhammad Imran, *Identifying Sub-events and Summarizing Information during Disasters*, ACM SIGIR, Ann Arbor Michigan, U.S.A. July 8-12, 2018.
- Debopriyo Banerjee, Niloy Ganguly, Krothapalli Sreenivasa Rao, Shamik Sural, *One for the Road: Recommending Male Street Attire*, PAKDD, 2018, Melbourne, Australia
- Subhendu Khatuya, Ajay Bakshi, Jayanta Basak, Niloy Ganguly, Bivas Mitra, *GBTM: Graph Based Troubleshooting Method for Handling Customer Cases Using Storage System Log*, PAKDD, 2018, Melbourne, Australia
- Abir De, Sourangshu Bhattacharya, Niloy Ganguly, *Shaping Opinion Dynamics in Social Networks*, AAMAS, 2018, Stockholm
- Sandipan Sikdar, Tanmoy Chakraborty, Niloy Ganguly, Animesh Mukherjee, *CompAS: Community Preserving Sampling for Streaming Graphs*, AAMAS, 2018, Stockholm
- Abir. De, Sourangshu. Bhattacharya, and Niloy. Ganguly. *Demarcating Endogenous and Exogenous Opinion Diffusion Process on Social Networks*. WWW, 2018. Lyon, France, 2018
- 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.
- Surjya Ghosh, Niloy Ganguly, Bivas Mitra, Pradipta De:, *Evaluating effectiveness of smartphone typing as an indicator of user emotion*. ACII 2017: 146-151
- Sankarshan Mridha, Sayan Ghosh, Robin Singh, Sourangshu Bhattacharya, Niloy Ganguly: *Mining Twitter and Taxi Data for Predicting Taxi Pickup Hotspots*. ASONAM 2017: 27-30
- Ankan Mullick, Pawan Goyal, Niloy Ganguly, Manish Gupta: *Extracting Social Lists from Twitter*. ASONAM 2017: 391-394
- Utpal Prasad, Nikky Kumari, Niloy Ganguly, Animesh Mukherjee: *Analysis of the Co-purchase Network of Products to Predict Amazon Sales-Rank*. BDA 2017: 197-214
- Koustav Rudra, Ashish Sharma, Niloy Ganguly, Muhammad Imran: *Classifying Information from Microblogs during Epidemics*. DH 2017: 104-108
- Rohit Verma, Surjya Ghosh, Niloy Ganguly, Bivas Mitra, Sandip Chakraborty: *Smart-phone based Spatio-temporal Sensing for Annotated Transit Map Generation*. SIGSPATIAL/GIS 2017: 16:1-16:10
- Sankarshan Mridha, Niloy Ganguly, Sourangshu Bhattacharya: *Link Travel Time Prediction from Large Scale Endpoint Data*. SIGSPATIAL/GIS 2017: 71:1-71:4
- Bhushan Kulkarni, Sumit Agarwal, Abir De, Sourangshu Bhattacharya, Niloy Ganguly: *SLANT+: A Nonlinear Model for Opinion Dynamics in Social Networks*. ICDM 2017: 931-936
- Bidisha Samanta, Abir De, Abhijnan Chakraborty, Niloy Ganguly: *LMPP: A Large Margin Point Process Combining Reinforcement and Competition for Modeling Hashtag Popularity*. IJCAI 2017: 2679-2685

- Sandipan Sikdar, Matteo Marsili, Niloy Ganguly, Animesh Mukherjee: Influence of Reviewer Interaction Network on Long-Term Citations: A Case Study of the Scientific Peer-Review System of the Journal of High Energy Physics. JCDL 2017: 179-188
- Surjya Ghosh, Niloy Ganguly, Bivas Mitra, Pradipta De: TapSense: combining self-report patterns and typing characteristics for smartphone based emotion detection. MobileHCI 2017: 2:1-2:12
- Abhijit Mondal, Satadal Sengupta, Bachu Rikith Reddy, M. J. V. Koundinya, Chander Govindarajan, Pradipta De, Niloy Ganguly, Sandip Chakraborty: Candid with YouTube: Adaptive Streaming Behavior and Implications on Data Consumption. NOSSDAV 2017: 19-24
- Balaji Vasanth Srinivasan, Noman Ahmed Sheikh, Roshan Kumar, Saurabh Verma, Niloy Ganguly: Usage Based Tag Enhancement of Images. PAKDD (1) 2017: 278-290
- Ankan Mullick, Shivam Maheshwari, Soumya C., Pawan Goyal, Niloy Ganguly: A Generic Opinion-Fact Classifier with Application in Understanding Opinionatedness in Various News Section. WWW (Companion Volume) 2017: 827-828
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