

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](#)

[Invited Speaker](#) LinkedIn-MSR-IISc workshop on Fairness, Accountability, Transparency and Ethics in Machine Learning, Jan 2020

[Invited Speaker](#) Learning with Temporal Point Processes NeurIPS 2019 Workshop, Dec 2019

[Invited Talk](#) Adobe Labs, San Jose May 2019

[Invited Talk](#) Flipkart Annual Event - Slash n Apr 2019

[Invited Talk](#) Theoretical Basis of Machine Learning, ICTS, Bangalore Dec 2018

[Invited Talk](#) Adobe Development Talk Series Bangalore Jun 2018

[Keynote Speaker](#), Big Data Analytics, IIIT Hyderabad Dec 2017

[Distinguished Speaker](#), Northeastern University, College of Computer and Information Science, Boston, Massachusetts Oct 2017

[Invited Talk](#), IKDD, Data Science In India Colocated with KDD 2017, Halifax, Nova Scotia, Canada Aug 2017

[Keynote Speaker](#), IBM I-CARE Conference, Bangalore Oct 2016

[Invited Speaker](#), 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
- Abhijnan Chakraborty, Saptarshi Ghosh, Niloy Ganguly, Krishna Gummadi: Who Makes Trends? Understanding Demographic Biases in Crowdsourced Recommendations, ICWSM 2017, Montreal, Canada.
- Abhijnan Chakraborty, Saptarshi Ghosh, Niloy Ganguly, Krishna Gummadi: Optimizing the Recency-Relevancy Trade-off in Online News Recommendations, WWW 2017, Perth, Australia.
- Bidisha Samanta, Abir De, Niloy Ganguly: STRM: A Sister Tweet Reinforcement Process for Modeling Hashtag Popularity, Infocom 17, Atlanta, GA.
- Satadal Sengupta, Vinay Kumar Yadav, Yash Saraf, Harshit Gupta, Niloy Ganguly, Sandip Chakraborty, Pradipta De: MoViDiff: Enabling Online Service Differentiation for Mobile Video Apps, in proc. of the Mini-Conference track of the 2017 IFIP/IEEE International Symposium on Integrated Network Management (IM 2017), Lisbon, Portugal, May 08 - May 12, 2017
- Surjya Ghosh, Niloy Ganguly, Bivas Mitra, Pradipta De: Towards Designing an Intelligent Experience Sampling Method for Emotion Detection, IEEE CCNC 2017
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