

# **7<sup>th</sup> International Conference on Big Data Analytics (BDA2019)**

**December 17 – 20, 2019**

**Venue: School of Engineering and Applied Science,  
GICT Building, Central Campus, Ahmedabad  
University, Navrangpura,  
Ahmedabad - 380009, Gujarat, India**

**Web site: <http://bda2019.org>**

## Program Schedule of Workshops December 17, 2019 (Tuesday)

### Workshop on 'Big Data: Algorithms, Frameworks and

#### I. Machine Learning Techniques for Problems in Evolving Networks and Computer Vision'

**Venue: Auditorium, GICT Building, Ahmedabad University**

09:30 - 09:45	Registration
09:45 -10:00	Inauguration and Introduction by Dr. Srikrishnan Divakaran
10:00 -11:15	Invited Talk by Dr. Bhaskar Choudhury, DA-IICT, Gandhinagar
11:15 - 11:30	Tea / Coffee Break
11:30 - 13:00	Invited Talk by Dr. Mehul Raval, PDPU, Gandhinagar
13:00 - 14:00	Lunch Break
14:00 - 15:15	Invited Talk by Dr. Srikrishnan Divakaran, Ahmedabad University
15:15 - 15:30	Tea / Coffee Break
15:30 – 16:45	Invited Talk on "Big Data and Machine Learning for Disaster Management" by Dr. Sanjay Madria, Missouri University of S & T, USA
16:45 - 17:30	Closing Remarks

#### **II. Workshop on "Data Science for Natural Resource Management and Agriculture", Venue: 106, GICT Building, Ahmedabad University**

09:30 - 09:45	Registration
09:45 -10:00	Inauguration and Introduction by Dr. P. Krishna Reddy, IIIT Hyderabad
10:00 -11:15	Keynote Talk:
11:15 - 11:30	Tea / Coffee Break
11:30 - 13:00	Invited Talk:
13:00 - 14:00	Lunch Break
14:00 - 15:15	Invited Talk:
15:15 - 15:30	Tea / Coffee Break
15:30 – 16:45	Invited Talk
16:45 - 17:30	Closing Remarks

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## Main Conference Program

### December 18-20, 2019: Main Conference Program (Venue: Auditorium, GICT Building, Ahmedabad University)

(Three keynotes, 18 research papers, five invited talks,  
six tutorials and one panel discussion)

18 December 2018 (Wednesday)			
08.30-09.00	Registration		
09.00-09.30	Inauguration		
09.30-10.30	Keynote 1		
10.30-11.00	TEA BREAK		
11.00-12.30	Invited Talk 1, Invited Talk 2, Paper 1		
12.30-13.30	LUNCH BREAK		
13.30-15.00	Paper 2, Paper 3, Paper 4	Tutorial 1	
15.00-15.30	TEA BREAK		
15.30-17.30	Paper 5, Paper 6, Paper 7, Paper 8	Tutorial 1 (cont.)	Tutorial 2
17.30-18.00	Networking		
18.00-19.00	Cultural program		
19.00 -20.30	Dinner at GICT building	Steering committee meeting (invited members only)	
19 December 2018 (Thursday)			
09.00-10.00	Keynote 2		
10.00 -10.30	TEA BREAK		
10.30-12.45	Invited Talk 3, Invited Talk 4, Paper 9, Paper 10, Paper 11	Tutorial 3	
12.45-13.45	LUNCH		
13.45-15.45	Paper 12, Paper 13, Paper 14, Paper 15, Paper 16	Tutorial 3 (cont.)	Tutorial 5
15.45-16.15	TEA BREAK		
16.15-17.45	Panel: Dr Aniban Mondal (moderator)		
17.45-21.00	Banquet Dinner		
20 December 2018 (Friday)			
09.00 - 10.00	Keynote 3		
10.00 -10.15	TEA BREAK		
10.15-12.30	Invited 5, Paper 17, Paper 18, Paper 19	Tutorial 6	
12.30-13.30	LUNCH BREAK		
13.30-17.00	Local Tour		

<b>I. KEYNOTES</b>	
Keynote 1	“Deep Learning Models for Medical Image Analysis: Challenges and Future Directions”, by Dr R.K. Agrawal, Jawaharlal
Keynote 2	“From GPS, Google Maps & Uber to Spatial Computing” by Dr. Shashi Shekhar, McKnight Distinguished University Professor, University of Minnesota, USA
Keynote 3	“Blockchain issues and solutions, how to let your big data sing” by Dr. Elizabeth Chang, Professor, Australian Defence Force Academy (ADFA), Australia
<b>II. INVITED TALKS</b>	
Invited Talk 1	“Elections & Social Media” by <u>Dr. Ponnuram Kumaraguru</u> , IIIT Delhi
Invited Talk 2	“Interactive Web-Based Geospatial Big-Data Analytics for Vegetation Monitoring” by Shashikant Sharma, Scientist-SG and Group Head, Space Applications Centre, ISRO, Ahmedabad
Invited Talk 3	“Turning Sensing Data into Smart Data for Smart Sustainable Cities” by Dr. Koji Zettsu, Director, NIST, Japan
Invited Talk 4	“The potential of Big Data Analytics in making sense of Urban Heat Island and Air Quality Monitoring data” by Dr. Girish Agrawal, Professor, Jindal School of Art and Architecture (JSAA), O.P. Jindal Global University (JGU), NCR of Delhi
Invited Talk 5	“Segment-search vs Knowledge Graphs: Making a Keyword Search Engine for Web Documents” by Dr. Subhash Bhalla, The University of Aizu, Japan
<b>III. PAPERS</b>	
<b>Web data and information extraction</b>	
Paper 1	Akanksha Mehndiratta and Krishna Asawa. Recent Advances and Challenges in design of Non-Goal Oriented Dialogue System
Paper 2	Selma Khouri, Nabila Berkani, Ladjel Bellatreche, and Dihia Lanassri. Data Cube is Dead, Long Life to Data Cube in the Age of Web Data
Paper 3	Vikram Singh and Mayank Dave. Improving Result Diversity using Query Term Proximity in Exploratory Search
Paper 4	Meghna Chaudhary, Ravi Sharma and Sriram Chellappan. Pairing Users in Social Media via Processing Meta-data from Conversational Files
Paper 5	Nakul R. Dave, and Mayuri A. Mehta. Comparative Analysis of Rule-based, Dictionary-based and Hybrid Stemmers for Gujarati Language
<b>Predictive Analytics in medical and agricultural domains</b>	
Paper 6	Shubham Yadav, Sakthi Ganesh, Debanjan Das, Venkanna U, Rajarshi Mahapatra, Ankur Kumar Shrivastava, Prantar Chakrabarti, Asoke K Talukder. Suśruta. Artificial Intelligence and Bayesian Knowledge Network in Health Care – Smartphone Apps for diagnosis and differentiation of anemias with higher accuracy at Resource Constrained Point-of-Care settings
Paper 7	Swapnil Shrivastava, Supriya N Pal and Ranjeet Walia. Market Intelligence for Agricultural Commodities using Forecasting and Deep Learning Techniques

<b>Graph Analytics</b>	
Paper 8	Philippe Fournier-Viger, Chao Cheng, Jerry Chun-Wei Lin, Unil Yun, and R. Uday Kiran. TKG: Efficient Mining of Top-K Frequent Subgraphs
Paper 9	Moumita Chatterjee, Anirban Mitra, Sudipta Roy , Somasis Roy, Hirav Shah, Sanjit Kr. Setua .Gossip Based Distributed Real Time Task Scheduling with Guaranteed Performance on Heterogeneous Networks
Paper 10	Sanchita Basak, Fangzhou Sun, Saptarshi Sengupta and Abhishek Dubey. Data-Driven Optimization of Public Transit Schedule
<b>Pattern Mining</b>	
Paper 11	P.P.C Reddy, R. Uday Kiran, Koji Zettsu, Masashi Toyoda, P. Krishna Reddy, and Masaru Kitsuregawa. Discovering Spatial High Utility Frequent Itemsets in Spatiotemporal Databases
Paper 12	Jui Mhatre, Harsha Agrawal, and Sumit Sen. Efficient Algorithms For Flock Detection in Large Spatio-Temporal Data
Paper 13	Xu Teng, Prabin Giri, Matthew Dwyer, Jidong Sun, and Goce Trajcevski. Local Temporal Compression for (Globally) Evolving Spatial Surfaces
Paper 14	Hai Duong, Tin Truong, Bac Le and Philippe Fournier-Viger. An Explicit Relationship between Sequential Patterns and their Concise Representations
<b>Machine Learning</b>	
Paper 15	Debasmita Dey and Pradeep Kumar. A novel approach to identify the determinants of online review helpfulness and predict the helpfulness score across product categories
Paper 16	Mohit Gupta and Pulkit Mehndiratta. Analysis and Recognition of Hand-drawn Images with Effective Data Handling
Paper 17	Kalpdrum Passi and Sandipgiri Goswami. Real Time Static Gesture Detection Using Deep Learning
Paper 18	Himangi Mittal, Ajith Abraham, and Anuja Arora. Interpreting Context of Images using Scene Graphs
Paper 19	Rajendra Kumar Roul. Deep Learning in the Domain of Near-Duplicate Document Detection
<b>IV. Tutorial Talks</b>	
Tutorial 1	“Data for AI” by Dr. Anush Sankaran and Dr. Hima Patel, IBM Research – India
Tutorial 2	“Streaming Data Processing” by Dr. Prasad Deshpande, Co-founder, Alpha Analyst
Tutorial 3	“Disrupting Healthcare Industry with Integration of Blockchain, AI and Analytics” Dr. Mayuri Mehta, SCET, Surat and Dr. Anuj Kumar Garg, IBM India
Tutorial 4	Knowledge Graphs: Representation, Management and Applications” by Dr. Raghava Mutharaju, IIIT Delhi and Dr. Srikanta Bedathur, IIT Delhi
Tutorial 5	“Large-Scale Information Extraction from Emails under Data Constraints” by Dr. Rajeev Gupta, Microsoft R&D, India
Tutorial 6	“Big Data Analysis Using Multilayer Networks” by Abhishek Santra, Research Scholar, University of Texas at Arlington

## Organizer



## Publisher



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