

# **8<sup>th</sup> International Conference on Big Data Analytics (BDA2020)**

**December 15 – 18, 2020**

**Venue: Ashoka University,**

**Sonepat, India**

**Web site: <http://bda2020.org/>**

## **Program Schedule of Workshops**

**December 15, 2020 (Tuesday)**

### **Workshop on**

**I. Data Challenges In Understanding Urban Heat Island and Air Quality**

**Venue: Online (on Zoom)**

**II. Workshop on “Workshop on Public and Political Data”,**

**Venue: Online (on Zoom)**

**III. Workshop on “Data Science for Agriculture and Natural Resource Management'  
(DSANRM2020)”**

**Venue: Online (on Zoom)**

# 8th International Conference on Big Data Analytics (BDA2020)

## Main Conference Program (Venue: Online on Zoom)

(5 keynote talks, 5 invited talks, 3 tutorials, 14 peer-reviewed research papers  
and a panel discussion)

December 16, 2020 (Wednesday)			
08.30-09.00	Inauguration		
09.00-10.00	Keynote 1		
10.00-11.00	Keynote 2		
11.00- 11.30	BREAK		
11.30-12.30	Research Session 1		
12.30-13.30	LUNCH BREAK		
13.30-15.00	Invited Talk 1 + Research Session 2		
15.00-15.30	BREAK		
15.30-17.00	Tutorial 1		
17.00-18.30	Steering Committee Meeting (Invitees only)		
December 17, 2020 (Thursday)			
09.30-10.30	Keynote 3		
10.30 -11.00	BREAK		
11.00-12.30	Invited Talk 2 + Research Session 3	Tutorial 2	
12.30-13.30	LUNCH BREAK		
13.30-15.00	Invited Talk 3 + Research Session 4	Tutorial 3	
15.00-15.30	BREAK		
15.30-17.00	Panel Discussion		
December 18, 2020 (Friday)			
09.00 - 10.00	Keynote 4		
10.00 -11.00	Keynote 5		
11.00-11.30	BREAK		
11.30-12.30	Invited Talk 4 + Research Session 5		
12.30-13.30	LUNCH BREAK		
13.30-15.00	Research Session 6	Invited Talk 5	
15.00-15.30	Closing Ceremony		

<b>KEYNOTES</b>	
Keynote 1	“Data Mining for the Relationship Among Consciousness, AI, and Coordination”, by Prof. Ouri Wolfson, University of Illinois at Chicago, USA
Keynote 2	“Data Equity Systems” by Prof. H. V. Jagdish, University of Michigan, USA
Keynote 3	“OoODE: Out of Order Execution of Database Operations” by Prof. Masaru Kitsuregawa, University of Tokyo, Japan
Keynote 4	“Knowledge-infused Learning: strategies for using knowledge with deep learning and NLP”, with some applications” by Prof. Amit Sheth, University of South Carolina, USA
Keynote 5	“Taming of the Big Data: Probabilistic Counting, Frequency Estimation, and Approximate Quantiles”, by Prof. Divyakant Agrawal, University of California at Santa Barbara, USA
<b>INVITED TALKS</b>	
Invited Talk 1	“Applying machine learning to anomaly detection in car insurance sales” by Prof. Marcin Paprzycki, Systems Research Institute, Polish Academy of Sciences, Poland
Invited Talk 2	“Large-scale Image Retrieval on Everyday Scenes with Common Objects” by Praveen Rao, University of Missouri - Columbia, USA
Invited Talk 3	“Generic Key Value Extractions from Emails”, by Dr. Rajeev Gupta, Principal Applied Researcher, Microsoft
Invited Talk 4	“A Comparison of Data Science Systems” by Prof. Carlos Ordonez, University of Houston, USA
Invited Talk 5	“Knowledge Graphs: Representation, Management and Applications” by Prof. Srikanta Bedathur and Raghava Mutharaju, IIT Delhi, India
<b>TUTORIALS</b>	
Tutorial 1	“Adversarial Collusion on the Web: State-of-the-art and Future Directions” by Dr. Tanmoy Chakraborty and Hridoy Sankar Dutta, IIIT Delhi, India
Tutorial 2	“Growing Role of Big Data and AI in Transforming Healthcare Industry” by Prof. Mayuri Mehta, Sarvajani College of Engineering and Technology, Gujarat, India
Tutorial 3	“Next Generation Web: Technology and Services” by Prof. Asoke K Talukder, Chief Science & Technology Officer SRIT Health, SRIT India Ltd, Bangalore, India

### **Research Session 1: Big Data Analytics for Healthcare**

- Shweta Thakur, Dhaval K. Patel, Brijesh Soni, Mehul Raval and Sanjay Chaudhary. Prediction for the Second Wave of COVID-19 in India
- Anamika Gupta, Anshuman Gupta, Vaishnavi Verma, Aayush Khatkar and Devansh Sharma. Texture Feature Extraction: Impact of Variants on Performance of Machine Learning Classifiers: Study on Chest X-ray – Pneumonia Images
- [Asoke Talukder](#), Julio Bonis Sanz and Jahnavi Samajpati. ‘Precision Health’: Balancing Reactive Care and Proactive Care through the Evidence Based Knowledge Graph Constructed from Real-World Electronic Health Records, Disease Trajectories, Diseasesome, and Patholome

### **Research Session 2: Text Analytics**

- Akanksha Mehndiratta and Krishna Asawa. Spectral Learning of Semantic Units in a Sentence Pair to Evaluate Semantic Textual Similarity
- Jitendra Parmar, Sanskar Soni and Satyendra Singh Chouhan. OWI: Open-world Intent Identification framework for Dialog Based System

### **Research Session 3: Big Data Analytics for Businesses**

- Pooja Gaur, P. Krishna Reddy, M. Kumara Swamy and Anirban Mondal. A Revenue-based Product Placement Framework to Improve Diversity in Retail Businesses
- Jaiteg Singh, Amit Mittal, Ruchi Mittal, Karmjeet Singh and Varun Malik. i-Fence: A Spatio-Temporal Context-Aware Geofencing Framework for Triggering Impulse Decisions

### **Research Session 4: Data Warehousing**

- Dr. Rajendra Kumar Roul and Dr. Jajati Keshari Sahoo. Study and Understanding the Significance of Multilayer ELM Feature Space
- Olaf Herden. Architectural Patterns for Integrating Data Lakes into Data Warehouse Architectures

### **Research Session 5: Text Analytics (Continued.)**

- [Shobhan Kumar](#) and [Arun Chauhan](#). Recommending Question-Answers for enriching Textbooks

### **Research Session 6: Machine Learning**

- Animesh Kumar, [Pramod Pathak](#) and [Paul Stynes](#). A Transfer Learning Approach to Classify the Brain Age from MRI Images
- G. Jignesh Chowdary, Narinder Singh Punj, Sanjay Kumar Sonbhadra and Sonali Agarwal. Face Mask Detection using Transfer Learning of InceptionV3 (short paper)
- Saravjeet Singh and Jaiteg Singh. Analysis of GPS trajectories mapping on shape files using spatial computing approaches (short paper)
- Shubam Yadav, Santosh Singh Rathore and Satyendra Singh Chouhan. Authorship Identification using Stylometry and Document Fingerprinting (short paper)