# 8th 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)

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| **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 | |  | |

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| **KEYNOTES** | | |
| 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 | |
| **INVITED TALKS** | | |
| Invited Talk 1 | | “Applying machine learning to anomaly detection in car insurance sales” by Prof. Marcin Papzycki, 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](http://bda2019.org/pages/keynote_invited_speakers_details.html#shashikant) |
| 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 |
| **TUTORIALS** | | |
| 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, Sarvajanik 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 Khattar 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, Diseasome, 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 Punn, 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)