



# International Conference on Big Data Analytics in Astronomy, Science, and Engineering (BASE 2022) 05<sup>th</sup> – 07<sup>th</sup> December, 2022

Organized by  
University of Aizu Japan and National Institute of Technology Delhi

## DAY 2- 06<sup>th</sup> December, 2022 (TUESDAY)

Google Meet joining info

Video call link: <https://meet.google.com/nqs-vvzk-sdu>

### SESSION 5

Time - 10:00 to 13:00 (IST)

Session Chair: Dr. D. Vaithiyanathan

| Time                 | Keynote Speaker   | Title of the Keynote                                 | Co-ordinator                  |
|----------------------|---|--|-------------------------------|
| 10:00- 10:50<br>IST  | <b>Dr. Milind Purohit</b> , Okinawa Institute of Science and Technology, Japan            | Development of the Research Data Archive at OIST     | Dr. Divya Punia<br>Ms. Kanika |
| 11:00- 11:50<br>IST  | <b>Dr. Ashish Mahabal</b> , California Institute of Technology, USA                       | Machine Learning in the era of Time Domain Astronomy |                               |
| 12:00 - 12:50<br>IST | <b>Prof. Nour Makke</b> and Prof. Sanjay Chawla, Qatar Computing Research Institute, HBKU | Neuro-Symbolic Regression with Applications          |                               |

LUNCH

**Time- 13:00 to 14:00 IST**

**SESSION 6**

**Time- 14:00 to 17:00 IST**

**Session Chair: Dr. Chandra Prakash**

| <b>Time</b>                  | <b>Keynote Speaker / Paper ID</b>   | <b>Title of the Keynote</b>  | <b>Co-ordinator</b>   |
|------------------------------|---|--|---|
| <b>14:00 - 14:50<br/>IST</b> | <b>Apurva Kulkarni, Pooja Bassin, Niharika Sri Parasa, Vinu E Venugopal, Srinath and Srinivasa Chandrashekar Ramanathan</b> | <b>Ontology Augmented Data Lake System for Policy Support System</b>                     | <b>Dr. Jaspinder Kaur<br/>Mr. Prabhat<br/><br/>Dr.Prabhakar Aggrawal<br/>Mr. Vijayant</b> |
| <b>15:00 - 15:30<br/>IST</b> | <b>Rakesh Kumar, Vatsala Anand, Sheifali Gupta, Maria Ganzha, Marcin Paprzycki</b>  | <b>Automatic identification of cataract by analyzing fundus images using VGG19 model</b> |   |
| <b>15:30 - 16:00<br/>IST</b> |   | <b>Poster Paper Presentations - 2 (Paper Id: 35,37,38,64,65,74)</b>                      |   |
| <b>16:00 - 17:00<br/>IST</b> | <b>Dr. Tanu Malik, DePaul University, USA</b>   | <b>Reproducible Containers for Scientific Computing</b>                                  |   |



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**DAY 3- 07<sup>th</sup> December, 2022 (WEDNESDAY)**

Google Meet joining info

Video call link: <https://meet.google.com/sbr-ivza-vwx>

| <b>SESSION 7</b>                      |   |  |                              |
|---------------------------------------|---|--|------------------------------|
| <b>Time - 10:00 to 13:00 (IST)</b>    |   |  |                              |
| <b>Session Chair: Dr. Y. Watanobe</b> |   |  |                              |
| <b>Time</b>                           | <b>Keynote Speaker</b>                        | <b>Title of the Keynote</b>  | <b>Co-ordinator</b>          |
| 10:00- 11:00<br>IST                   | Yenjou Wang and<br>Qun Jin ,<br>Waseda, Japan | <b>Improving Emotional Confusions in<br/>SNS Sentiment Analysis by Partial<br/>Redistribution of BERT<br/>Discrimination Results</b> | Dr. Richa Sharma<br>Ms. Neha |
| 11:00- 12:00<br>IST                   |   | <b>Research Papers Presentation -2<br/>(Paper Id: 3,10,24)</b>   |                              |
| 12:00 - 13:00<br>IST                  |   | <b>Research Papers Presentation -3<br/>(Paper Id: 45,59,61)</b>  |                              |

| <b>Paper ID</b> | <b>Title of the Keynote/Paper</b>   |
|-----------------|---|
| 3               | A Blockchain-based Approach for Audit Management of Electronic Health Records |
| 10              | A scientific perspective of Agnihotra to curtail pollutants in the air        |
| 24              | Sensors based Advanced Bluetooth Pulse Oximeter System                        |

|    |  |
|----|--|
| 45 | Incremental SVD-based Hybrid Movie Recommendation to Improve Content Delivery over CDN |
| 59 | Integrated Transmission and Distribution Modelling using Multi-Agent based framework   |
| 61 | A Programmatic Solution to stop Heartbleed Bug Attack                                  |

**LUNCH**  
**Time- 13:00 to 14:00 IST**

**SESSION 8**  
**Time- 14:00 to 17:00 IST**

**Session Chair: Dr.Rishav Singh**

| Time              | Invited Speaker / Paper ID   | Title of Talk/Paper   | Co-ordinator                     |
|-------------------|--|---|----------------------------------|
| 14:00 - 14:30 IST | Karolina Bogackal , Anastasiya Danilenka, <b>Katarzyna Wasielewska</b> -Michniewsk a, Marcin Paprzycki, Maria Ganzha, Eduardo Garro, and Lambis Tassakos | Introducing Federated Learning into Internet of Things Ecosystems – Maintaining Cooperation Between Competing Parties | Dr. Jaspinder Kaur<br>Ms. Kanika |
| 14:30 - 15:30 IST | Prof. Marcin Paprzycki, Polish Academy of Sciences, Poland   | Explorations in active learning applied to image classification   |                                  |
| 15:30 - 16:30 IST | Valedictory  |   |                                  |