Manav Rachna University
Department of Computer Science and Technology
Report on International Conference 'Computational Intelligence in Analytics and Information Systems' (CIAIS- 2021)

Date: 2ⁿᵈ-3ʳᵈ April, 2021

Venue: I-Block Auditorium

Department of Computer Science and Technology (CST), MRU has organized an International Conference on **'Computational Intelligence in Analytics and Information Systems' (CIAIS-2021) from April 2-3, 2021 to commemorate the 74th Founder's Day**. The main focus of the conference is on the empirical, theoretical and application prospects of the introduction of computational intelligence in Data Science, Information retrieval and communication systems.

Team of Conveners with organizing Chairs, Executive Chairs and Patron of CIAIS 2021

The Inaugural session witnessed the gracious presence of the Chief Guest, **Prof K.K. Aggarwal**, **Chairman NBA** and **Founder Vice-Chancellor, GGS Indraprastha University**. **Dr. Mohit Gambhir**, Innovation Director, Ministry of Education was the Guest of Honor. **Dr. Anjana Gossain**, Professor, University School of Information Communication Technology, Guru Gobind Singh Indraprastha University, New Delhi was the General Chair of the conference. H' Vice Chancellor, Manav Rachna University, **Prof. I.K. Bhat**; Director-General, MREI **Dr. N.C. Wadhwa**, H' Vice-Chancellor, MRIIRS, **Prof. Sanjay Srivastava**; PVC, MRIIRS **Prof. Pradeep Kumar**; Dean Academics MRU, **Prof. Sangeeta Banga**; and Dean Research MRU, **Prof. Pradeep Varshney**, graced the occasion.

Inaugural Session of CIAIS (2nd April, 2021)

Organizing Chair, **Prof. Hanu Bhardwaj**, Head, CST Department gave her opening remarks and introduced the theme of the conference. **Convener, Dr. Manpreet Kaur**, Associate Professor, CST Department apprised the audience about the review process followed for quality paper selection in the conference. She also shared the details of the technical program.

Prof. Hanu Bhardwaj, Organizing Chair and Head of Department, giving her opening remarks

Prof. Anjana Gossain, General Chair introducing the conference theme

Dr. Anjana Gossain stated that there is a need for such events to groom our young generation to prepare them for innovating new solutions for the betterment of humanity. She also laid down the importance of hybrid conferences in this pandemic which ensures the safety of all.
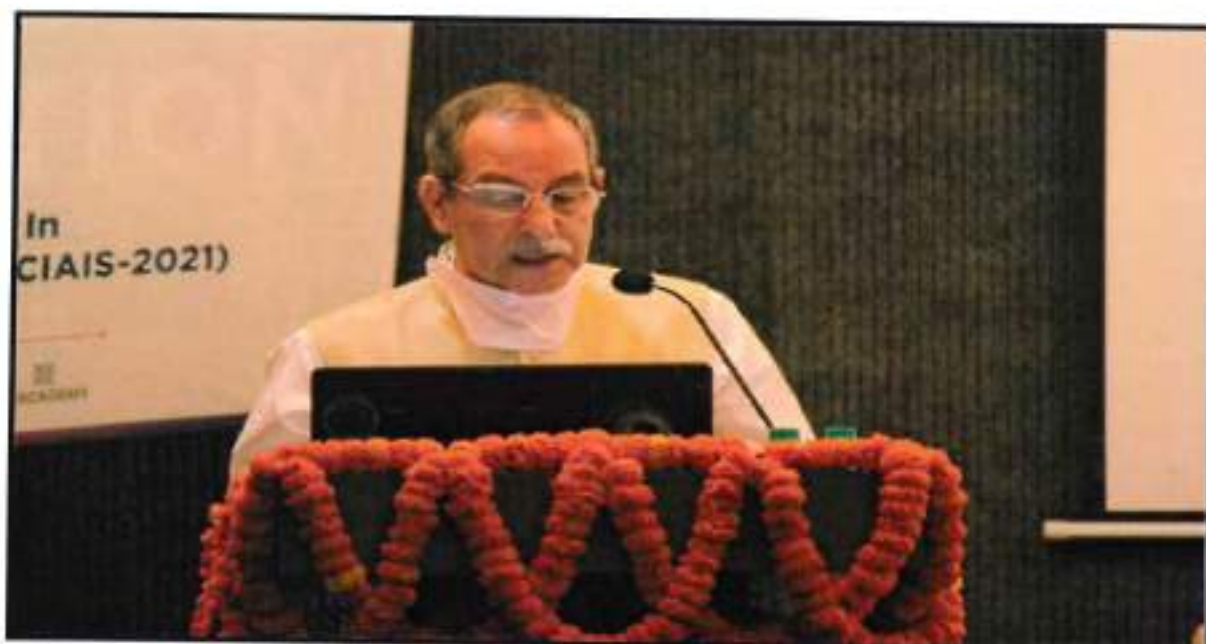

Convener, Dr. Manpreet Kaur, Associate Professor, DoCST sharing conference details and two-days Technical Program

Prof I.K. Bhat talked about the new teaching and research initiatives and collaborations being undertaken by Manav Rachna. Prof K.K. Aggarwal, in his opening remarks, highlighted the importance of multidisciplinary courses in our education system. He emphasized that innovation is something that is not restricted to any specific domain; it's an art or a capability to think out-of-the-box.

Honourable Vice Chancellor-Prof. (Dr.) I.K. Bhatt giving his Welcome Speech

First keynote session of Day 1 started with the welcome note by Mr. Ram Chatterjee which was followed by the keynote address of **Prof. Dr. Millie Pant, Associate Professor, Department of Applied Science and Engineering, IIT, Roorkee**, on the topic "Evolution of AI: Past, Present and Future". The presentation encompassed a preamble on AI, delving into deeper details of the domain with the diversified applications of AI in real-life scenarios and implementation of Machine Learning techniques in practice.
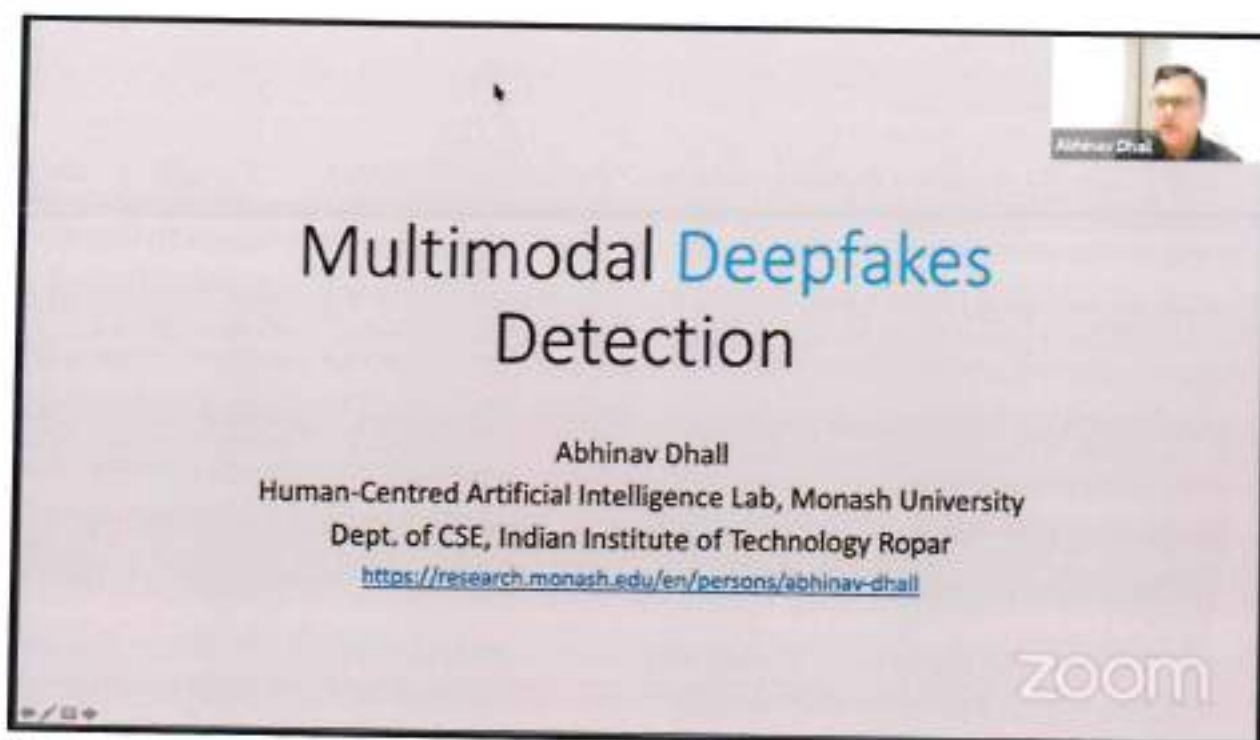

Presentation by Author

The various experiments conducted in the domain of AI & ML were also an integral part of the session to support the facts in the area.

Second keynote session of Day 1 started with the welcome note by Prof. Bharti Jha which was followed by the keynote address of **Dr. Abhinav Dhall, Professor, Human-Centered Computing Department, Monash University, Australia** on the topic "Multimodal Deep Fakes Detection". He talked about the Deep Fakes with a few video demonstrations. The topic was further explained with the underlying details of deep fakes, their practice, implementation and scope of research.

Session by Dr. Abhinav Dhall, Professor, Human-Centered Computing Department, Monash University, Australia

The keynote session of Day 2 commenced with the welcome note message by Ms. Bharti Jha.
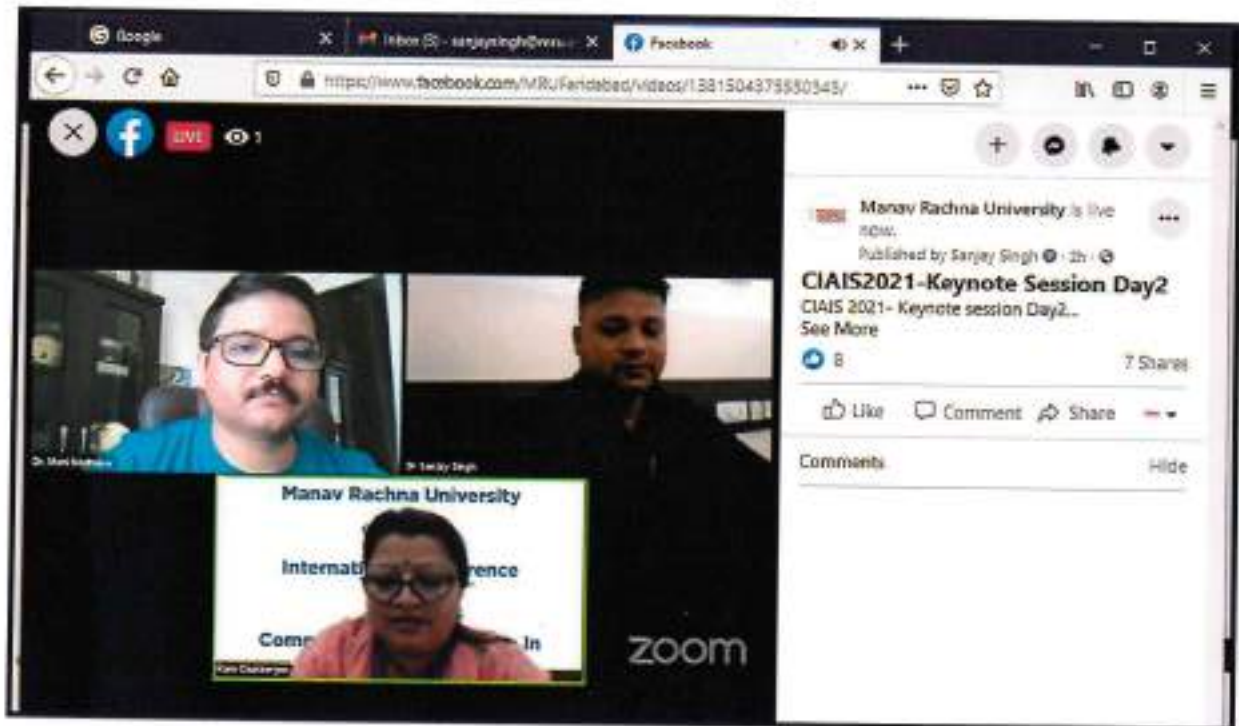
The session progressed with the address on the topic **"Using AI for AI"** by **Dr. Mani Madhukar** who is a mentor to the online community on Blockchain and Cloud, supporting sessions on IBM Blockchain/Hyperledger. The presentation encompassed AI perspectives, delving into deeper details of the domain with the diversified applications of AI in real-life scenario and implementation of its practical application areas like **AI for AI – Speeding up Research influences with Auto AI.**
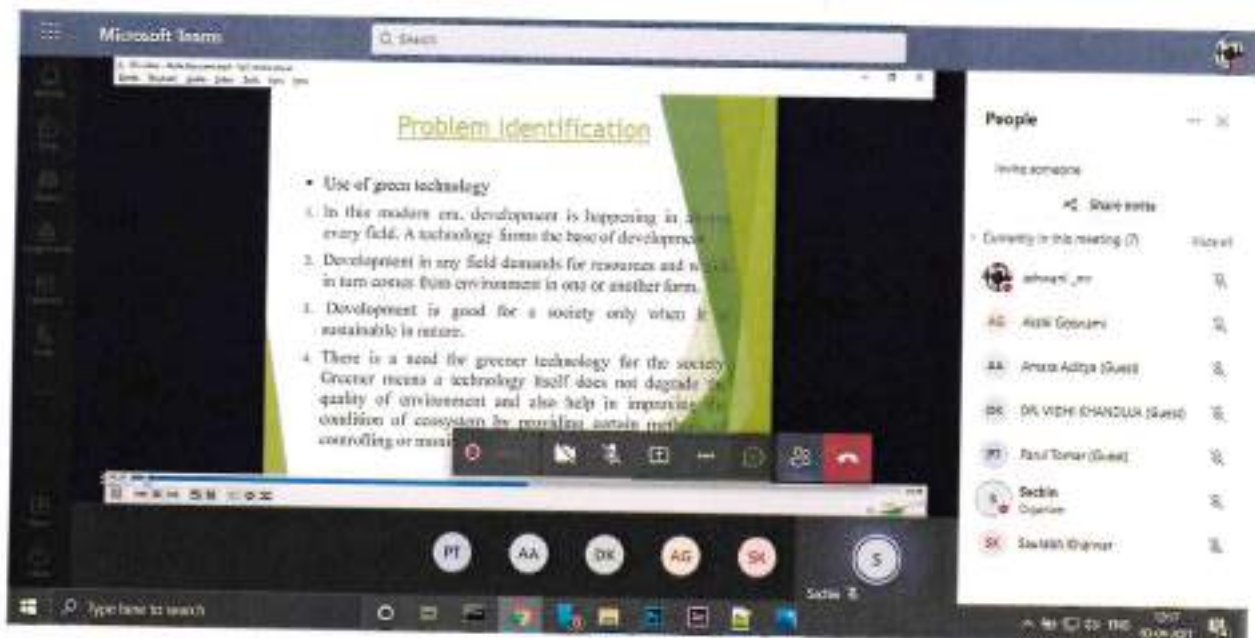
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Dr. Mani Madhukar Keynote Speaker

Session on Day 2, (03/04/2021)

Paper Presentation by Author

Further, into the minutiae of the domain, the multifarious influence and impact of the Auto AI and the addressing of the existing lacunas in the domain were discussed in detail. The Digital transformations, driven by multi-cloud and AI, were the crux of the presentation which was presented based on use cases. The challenges of AI were portrayed in sufficient detail to comprehend the need and necessity of AI in real-life situations.

Audiences glued to the event amidst COVID restrictions

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The session advanced with the fine-tuned details of IBM AI Portfolio encompassing Watson Studio and Watson Machine Learning AI firepower into the business arena. Augmenting the above rationale, the machine learning optimizations were demonstrated in particular. The Auto AI – implication, application and influencing factors were explained in a good manner. The session culminated with the automation of AI development with Cloud data, which were remarkable additions to the keynote session.

Conveners presenting Token of Gratitude to Prof. (Dr. I.K. Bhat for his constant valuable guidance and support

Token of Gratitude being presented to Executive Chair, Prof. Sangeeta Banga (Dean Academics), MRU