School of Computing

Research Conclave '22: Exchanging Futuristic Ideas for Innovative Research

Dates: 8th and 9th July 2022

Venue: Sangamam Seminar Hall, 5th Floor, A Block, VFSTR

The School of Computing, VFSTR in association with CSI student chapter Chennai Region, organized a two-day Research Conclave on 8th and 9th July 2022. Major objective of this event is to ignite the spark of interest on Research in the minds of students and to inculcate research culture in academic approach and to foster Research linkages with Industry.

11 Eminent researchers from academia and industry across the Nation were invited as speakers to this event. The event includes 9 technical sessions and a panel discussion on "Futuristic Ideas for Innovative Research". 240 members actively participated in the event including 60 online participants. The event started with a brief inaugural session and Prof. K Chidananda Gowda, Former Vice-Chancellor, Kuvempu University was invited as a chief-guest for the inaugural session. Dr P Nagabhushan, Honorable Vice-chancellor, Cmdr. Raghunadhan, Registrar, Prof.Venkatesulu Dondeti, Dean school of computing and HoD, CSE, Prof. K V Krishna Kishore, Dean Technology Development and HoD, IT addressed the participants during the inaugural session.

Report on Day-1 Sessions:

The first session was on "Research Avenues in Block Chain Technologies" by Prof K Chidanda Gowda, Former Vice-Chancellor, Kuvempu University. The speaker emphasized on how block chain technologies could be a future technology across various domains. The second session was on "Introduction to EEG and Its Applications to Neuro-Marketing" by Dr. Partha Pratim Roy, Associate Professor, CSE, IIT Roorkee. During this session, the speaker enlightened participants on the difficulties involved in acquiring EEG signals and analyzing the EEG signals for various applications with a special emphasis on Neuro-Marketing. Pre-lunch session was on "Explainable AI: Current Status and Future Directions" by Dr. Sonali Agarwal, Associate Professor, Dept of IT, IIIT Allahabad. Speaker introduced various futuristic opportunities in the field of artificial intelligence.

Following session was on "Research Opportunities in Machine Learning (Philosophical Views on Challenges and Avenues)" by Dr. D.S. Guru, Professor and Chairman, Department of Studies in Computer Science, University of Mysore. He emphasized on how to convert the

problems we observe in the day-to-day life into research problems. The last session of Day-1 was on "Interesting AI / ML Research Problems in EdTech Domain", by Dr. R. Pradeep Kumar, Chief Innovation Officer, Amphi Ventures, Coimbatore. He explored the scope for research in EdTEch domain and how E-box is using the technology for providing better learning experience to the

students and faculty.

Felicitating Chief-Guest Prof. K Chidanda Gowda during the Inaugural Session

Invited talk by Dr Partha Pratim Roy, Associate Professor, CSE, IIT Roorkee

Invited talk by Dr. Sonali Agarwal, Associate Professor, Dept of IT, IIIT Allahabad

Invited talk by Prof. D.S. Guru, Chairman, DoS in Computer Science, University of Mysore.

Invited talk by Dr. R. Pradeep Kumar, Chief Innovation Officer, Amphi Ventures, Coimbatore

Report on Day-2 Sessions:

The first session on Day-2 was on "Deep Learning Models for Text, Image and Video Processing" by Prof. C Chandra Sekhar, Professor, CSE, IIT Madras. This session was a walk-through of various neural network models from the simple feed forward networks to the recent transformer models. The speaker emphasized on the challenges involved training the deep neural network models along with their applications across various domains and associated open research problems.

The next session was on "Target class mining in distributed environment" by Dr. Sanjay Kumar S, Assistant Professor, Department of CSE, ITER, Siksha 'O' Anusandhan (SOA) Deemed to be University. The following session was on "SAFE Artificial Intelligence" by Dr. Krishna Pratap Singh, Associate Professor, Dept of IT, IIIT Allahabad. The last technical session was on "Clinical Decision Support System for Healthcare Applications" by Dr Dinesh M.S, Senior Scientist, Philips Research (India).

In addition to the above technical sessions there was a Panel Discussion on "Futuristic Ideas for Innovative Research" which was moderated by Prof. P. Nagabhushan, Honorable Vice-chancellor. Panellists for the panel discussion includes all the above speakers along with Dr. Timothy A. Gonsalves, Professor Emeritus (Hon.) and Founder Director, IIT Mandi and Prof. R Subramanian, Department of Computer Science and Engineering, Indian Institute of Technology Roorkee, India, participated in the panel discussion. Each panellist shared their perspective on the topic.

The programme was closed by a valedictory session for which Dr. D.S. Guru, Professor and Chairman, Department of Studies in Computer Science, University of Mysore was invited as a chief guest. Dr P Nagabhushan, Honorable Vice-chancellor, Cmdr. Raghunadhan, Registrar, Prof. Venkatesulu Dondeti, Dean school of computing and HoD, CSE attended the valedictory session and appreciated the organizers for organizing the research conclave which helps in igniting the fresh minds towards research.

The event was Co-Sponsored by TeraFast Networks pvt ltd, Chennai, Mr Samanth, 15-19 Batch Alumni of CSE Dept, TDH range of Dals and Learning Saga Technologies, Hyderabad.

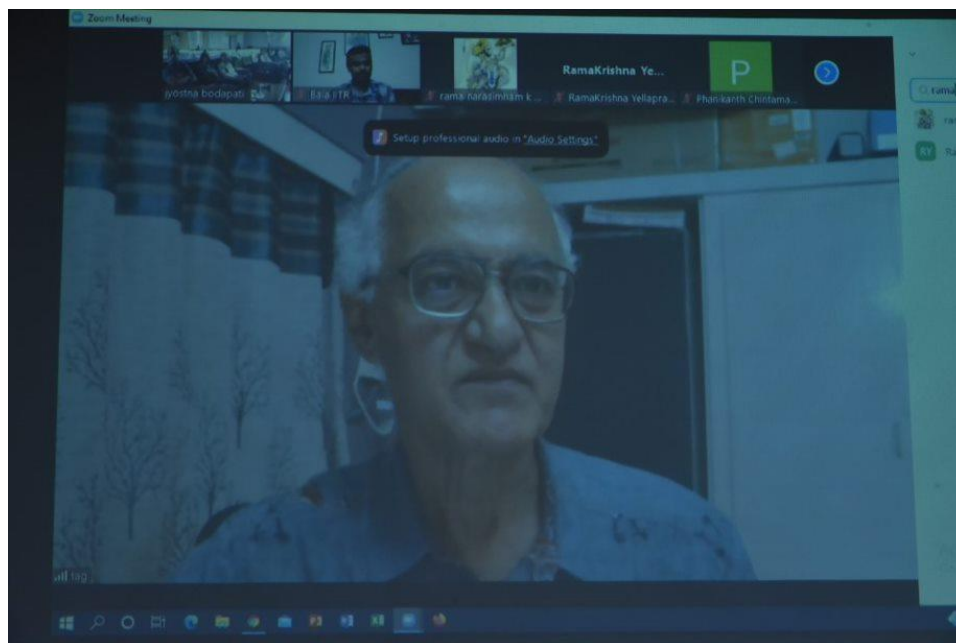**Invited talk by Prof. C Chandra Sekhar, Dept of CSE, IIT Madras**

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Dr. Timothy A. Gonsalves, Professor Emeritus (Hon.) and Founder Director, IIT Mandi in Panel Discussion

Prof. P. Nagabhushan, Vice-chancellor, VFSTR Moderating the Panel Discussion

Invited Speakers with Deans and Heads of the Departments

School of Computing Faculty with invited speakers and other dignitaries of the University