Faculty Development Program on

Emerging Topics in Computing: Quantum, Microfluidics, and Memristors

Organized by:

Department of Computer Science and Engineering, in association with IQAC, JIS University

Coordinators:

Dr. Tapalina Banerjee
Dr. Abhoy Kole
Dr. Kamalika Datta

Last Date of Registration:

August 7, 2021

Program Duration:

August 9 - 13, 2021

Conduction Mode and Dates:

a) **Online (over Zoom)**

b) **August 9-13, 2021**

About the Program:

Research in emerging technologies has picked up momentum over the last few decades with growing emphasis on low-power design methodologies, non-volatile memories and microfluidic biochips. Quantum computing is aimed to solve many difficult problems for which we do not have any solutions till date, or the solutions for which might take many years. Microfluidic biochips transformed traditional manual bench-top analysis to instant lab-on-chip analysis. Memristors, also termed as Resistive Memories, have shown great potential as memory as well as processing element. Many neuromorphic chips have been built using memristors. The main objective of the workshop will be to expose the audience to state-of-the-art research works that have been carried out in these areas. It is also expected to guide potential researchers interested to pursue a research career in one of these areas, by providing possible research directions.

List of Speakers:

Prof. Indranil Sengupta, Vice Chancellor, JIS University, Kolkata, India

Prof. Krishnendu Chakrabarty, Duke University, Durham, USA

Prof. Susmita Sur-Kolay, Indian Statistical Institute Kolkata, India

Prof. Tsung-Yi Ho, National Tsing Hua University, Taiwan

Dr. Shahar Kvatinsky, Technion-Israel Institute of Technology, Haifa, Israel

Prof. Subhashis Majumder, Heritage Institute of Technology, Kolkata, India

Dr. Harish Sahu, Defense Research and Development Organization, India

Dr. Dhananjoy Dey, Indian Institute of Information Technology, Lucknow, India

Dr. Sudip Roy, Indian Institute of Technology Roorkee, India

Dr. Shubham Sahay, Indian Institute of Technology Kanpur, India

Dr. Tapalina Banerjee, JIS University, Kolkata, India

Dr. Abhoy Kole, JIS University, Kolkata, India

Dr. Kamalika Datta, JIS University, Kolkata, India

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Faculty Development Program

Who should attend?

Faculty members and researchers who are already working or interested to take up a research career in quantum computing/microfluidic/memristors can benefit by attending the program. Participants from the industry can also benefit from the knowledge on these very important emerging technologies.

Attendance and Evaluation Process:

All the participants are required to attend all the sessions, and a minimum of 80% attendance in the sessions is the prerequisite to avail the participant certificate. Also, an online test shall be conducted based on the topics covered on August 13, 2021 after all the sessions are over. A participant shall be provided with a certificate of successful completion based on minimum 60% score in the written test.

Registration Link:

The interested participants need to register for the event by filling up an online form through the following link:

https://qrgo.page.link/faCB6

Please note that no registration fee is required to attend this program.

Contact Details:

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Scan the QR code for Quick Registration