

School on “Scientific Computing, Artificial Intelligence & Machine Learning” SCAIML-2023

Inter-University Accelerator Centre, New Delhi

July 24-27, 2023

REGISTRATION (24th July 2023, Monday)

Date	Time	Location
24 July, 2023	8:30 AM to 9:30 AM	Registration (Venue: Lounge Area, Seminar Hall, Main Laboratory Complex, IUAC)

PROGRAM SCHEDULE: DAY-1 (24th July 2023, Monday)

Time	Speaker	Organization	Presentation Title
9:30 AM	Dr. B.K. Sahu	IUAC	Welcome Address & Lighting Lamps
9:40 AM	Prof. A. C. Pandey	Director, IUAC	Opening Remarks and Overview
10:00 AM	Dr. Debasisa Mohanty	Director, NII, New Delhi	Keynote Address: "Computational Microscope to Digital Twins: How scientific computing is driving major advances in Biology & Medicine?"
10:45 AM	Dr. J. Antony	IUAC	Vote of Thanks
11:00 AM			High Tea
			Session-1
11:30 AM	Dr. Rajeev Wankar	University of Hyderabad	Parallel Programming Paradigm (Lecture)
1:00 PM			Lunch Break
			Session-2
2:00 PM	Dr. J. Antony	IUAC	Introduction to Deep Neural Networks, Embedded Tiny ML, Practical AI Demonstrations (Lecture)
3:30 PM			Tea Break
4:00 PM	Dr. Mayank Sharma	DRDO	Introduction and Hands on – Python workflow to build TinyML

PROGRAM SCHEDULE: DAY-2 (25th July 2023, Tuesday)

Time	Speaker	Organization	Presentation Title
Session-3			
9:00 AM	Mr. Rishabh Sehgal Ex-Physical Design Engineer, Intel, USA	University of Texas, Austin	Hardware Machine learning Accelerators and what is it?
10:00 AM	Prof. Sumantra Dutta Roy	IIT, Delhi	K-Means, GMMs and the EM Algorithm, the Stauffer-Grimson Video Background Subtraction Algorithm (Part-I)
11:00 AM	Tea Break		
11:30 AM	Prof. Sumantra Dutta Roy	IIT, Delhi	K-Means, GMMs and the EM Algorithm, the Stauffer-Grimson Video Background Subtraction Algorithm (Part-II) (Lecture)
1:00 PM	Lunch Break		
Session-4			
2:00 PM	Mr. Rohit Prajapati.	DigiToad Technologies, Bangalore	Hands on introduction to Edge AI Development Workflow (Session I)
3:30 PM	Tea Break		
4:00 PM	Mr. Rohit Prajapati.	DigiToad Technologies, Bangalore	Hands on introduction to Edge AI Development Workflow (Session II) (Lecture)

PROGRAM SCHEDULE: DAY-3 (26th July 2023, Wednesday)

Time	Speaker	Organization	Presentation Title
Session-5			
9:30 AM	Dr. Surendra. Yadav	RRCAT, Indore	ANN Based Machine Learning Model for Controlling Beam Parameters for Accelerators (Part-I)
11:00 AM			
Tea Break			
11:30 AM	Dr. Surendra. Yadav	RRCAT, Indore	ANN Based Machine Learning Model for Controlling Beam Parameters for Accelerators (Part-II) (Lecture)
1:00 PM			
Lunch Break			
Session-6			
2:00 PM	Mr. P. Rajsekar	BARC, Mumbai	Applications of Machine Learning
3:30 PM			
Tea Break			
4:00 PM	Ms, Jyotsna Khemka	Intel	Practical session with computing
5:30 PM			
Break			
7:00 PM	Prof. A.C. Pandey	Director, IUAC	Special Evening Talk
8:00 PM			
Director's Dinner			

PROGRAM SCHEDULE: DAY-4 (27th July 2023, Thursday)

Time	Speaker	Organization	Presentation Title
Session-7			
9:30 AM	Prof. Vipul Arora & Mr. Ankur	IIT, Kanpur	Generative Machine Learning for Particle and Statistical Physics (Part-I)
11:00 AM			
Tea Break			
11:30 AM	Prof. Vipul Arora & Mr. Ankur (Lecture)	IIT, Kanpur	Generative Machine Learning for Particle and Statistical Physics (Part-II)
1:00 PM			
Lunch Break			
Session-8			
2:00 PM	Dr. Ashok Kumar	University of Panjab, Bathinda	Application of Machine Learning in Material Science (Lecture)
4:00 PM			
Tea Break			
4.30 PM	Open discussion & Concluding remarks - convened by Organizing Committee SCAIML-'23 [Coordinators: Dr. B. K. Sahu / Dr. J. Antony]		