



Indian Institute of Technology Madras High Performance Computing (HPC) Workshop

Dates of the workshop:
27th – 29th July 2020

Online event:

[Registration link](#)

or scan to register:



IIT Madras is organizing an HPC Workshop, from 27th to 29th July 2020, primarily for its students, staff, employees as well as for personnel from IITM research park. The workshop would include a basic HPC session, and several research talks that are expected to address a wider audience.

Registration

Registration is free but mandatory. More details would be sent to the registered participants. Please [register for the workshop here](#).

Program

The event is scheduled on-line. E-meeting details will be mailed to the participants at the e-mail id filled in the registration form. The schedule of the program is as follows:

Date	Time	Speaker and Topic
27 th July	10:00	Prof. Kameswararao Anupindi (ME) <i>Introduction to MPI Programming</i>
	14:30	Prof. Krishna Nandivada V (CSE) <i>Introduction to (efficient) OpenMP Programming</i>
	16:00	Prof. Rupesh Nasre (CSE) <i>Introduction to GPU Programming</i>
28 th July	10:00	Prof. Jithin John Varghese (CHE) <i>Computational Catalysis and Multiscale Modelling</i>
	11:00	Prof. Srinivasa Chakravarthy (BT) <i>Simplifying the brain: A vision for Neuroscience Research</i>
	15:00	Prof. Nagabhushana Rao Vadlamani (AE) <i>High-Fidelity Simulations in Turbomachines using distributed and shared memory architectures</i>
	16:00	Prof. Narasimhan Swaminathan (ME) <i>High Performance Computing in Molecular Dynamics Simulations</i>
29 th July	10:00	Prof. Tarak Patra (CHE) <i>Accelerating Inverse Materials Design via Gaming AI and High-Performance Computing.</i>
	11:00	Prof. Chakravarthy Balaji (ME) <i>Numerical simulations of extreme rainfall event in December 2015 over Chennai under Pseudo Global Warming Conditions</i>
	15:00	Prof. Himanshu Goyal (CHE) <i>High Performance Computing for Clean Energy Technologies</i>

Organizers:

Himanshu Goyal (CHE),
Kameswararao Anupindi (ME),
Ratnakumar Annabattula (ME),
Rupesh Nasre (CSE),
Santanu Ghosh (AE),
Sunetra Sarkar (AE)