Tata Institute of Fundamental Research

Homi Bhabha Road, Colaba, Mumbai, INDIA, 400005

ASET Colloquium

High Throughput Computing in the Service of Scientific Discovery

For about three decades, we have been engaged in translating the potential of distributed computing into effective High Throughput Computing (HTC) software tools. The HTCondor distributed resource and job management system that we developed has facilitated evaluation of novel HTC frameworks and technologies under real-life workloads. Our work led to close collaboration with researchers and contributed to two Nobel prizes in recent years. The UW-Madison Center for High Throughput Computing delivered about 400M core hours to more than 250 projects during last year. While about 30% of these hours were consumed by the Compact Muon Solenoid (CMS) experiment, about 13% were used by the IceCube Neutrino collaboration. This talk will present the principles that have been guiding our work and review our experience in deploying HTCondor in different research computing settings.

Prof. Miron Livny, Center for High Throughput Computing, University of Wisconsin-Madison

Miron Livny received B.Sc. from the Hebrew University and M.Sc. and Ph.D. degrees from the Weizmann Institute of Science. Since 1983 he has been a faculty at the Computer Sciences Department, University of Wisconsin-Madison, where he is currently the John P. Morgridge Professor of Computer Science, the director of the Center for High Throughput Computing (CHTC), the principal investigator and technical director of the Open Science Grid (OSG) and is leading the HTCondor project. He is also the Chief Technology Officer of the Wisconsin Institutes of Discovery. He pioneered the area of HTC and developed frameworks and software tools that have been widely adopted by academic and commercial organizations around the world.

Date & Time: Friday, 25th October 2019, 4pm

Venue: Main Lecture Theatre (AG-66), TIFR, Mumbai

This talk is open to all, no registration needed. Please carry your photo ID card. For further details, please email to 'aset@tifr.res.in' or call +91-9987537702.