ASET@TIFR

Advancing Throughput Computing for the Physical Sciences

Prof. Miron Livny (University of Wisconsin-Madison and Morgridge Institute of Research)

Friday, September 6, 2024: 4 to 5 p.m.
Hybrid: Lecture Theatre AG 66, TIFR.
YouTube Live: https://shorturl.at/roYBA

The talk will present the different methodologies and elements that underpin the translational work of the Center for High Throughput Computing (CHTC). As a growing number of science domains depend on computational workloads that consist of an ever-growing number of self-contained tasks, CHTC is actively engaged in bringing the decades long experiences to these domains. The centre offers a fabric of services that include a campus wide and a national "open capacity" computing environment as well as a sustained sequence of software releases. The recent addition of the Pelican Platform to the CHTC research and development portfolio brings storage management and data delivery foci to the centre. The opportunities for innovation triggered by an ever-evolving research computing landscape at different scales will be reviewed.

Miron Livny is a senior researcher and the John P. Morgridge Professor of Computer Science, specializing in distributed computing at the University of Wisconsin–Madison, Principal Scientist at Core Computational Technology of the Wisconsin Institutes for Discovery, Chief Technology Officer of the Wisconsin Institutes for Discovery, founding Director of the UW Center for High Throughput Computing (CHTC), Director of the Software Assurance Marketplace and the Technical Director of the Open Science Grid (OSG).Livny pioneered methodologies of high-throughput computing and built the widely adopted HTCondor Software Suite, which facilitates the management and sharing of (often huge assemblages of) data through computing tasks handled by distributed computing resources.