BIG DATA SIMULATION USING SOME HPC SOFTWARE

Trainer: AP Dr. Norma Alias

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Track: Data Science

Description: The first session of the workshop, the researchers will learn the concepts and skill on how to solve big data problem of a grand challenge application. Many opportunities to enhance the parallel algorithm, domain and function decomposition, mapping strategy of large scale simulation, message passing paradigm, high performance computing architecture will be described. The last session, they will go through the hands-on training on some high performance computing (HPC) software or communication protocol software such as PVM, CUDA and Matlab Distributed Computing System (MDCS). The aims of this workshop is to build the understanding on big data simulation, how to handle the huge simulation and how to use the HPC software.

Time: 1:00 pm – 4:00 pm

Date: Wednesday, 11 December, 2019

Room Number: 0.800

Short biography: Norma Alias is currently the Head of Networking and Linkages Division, Associate Professor and Research Fellow of Center for Sustainable Nanomaterials, Ibnu Sina Institute for Scientific and Industrial Research (IIS), Universiti Teknologi Malaysia (UTM). She was appointed as an Associate Professor and Research Fellow at King Saud University, Saudi Arabia. She is a member of the Malaysian Mathematical Sciences Society. She has supervised for 13 PhD students and 32 MSc with Philosophy. She is supervising ongoing 8 PhD students , 30 MSc with Philosophy students, 2 postdoctoral students and reviewing postgraduate students of local and international universities from multi-faculty. AP Dr. Norma has a distinguished academic and research track record having published over 200 publications. She held a number of editorial board memberships for 8 international and national journals. . She has been invited by 20 international conferences in the year 2016-2019 as keynote, plenary and invited speaker.