CS F422 Parallel Computing

Assignment 2

Marks: 20

Due Date:

- **Sunday, 16th April (11pm)**

Process:

- Choose one of the two problems : (1) Implementation of Page Rank (2) Implementation of a Branch-and-Bound Template

- Read an algorithm from a specified paper for the chosen problem

- Design your own parallel algorithm by adapting the given solution: (a) to a cluster of workstations and (b) to a shared memory multi-core computer.

- Implement your solutions using MPI for (a) and OpenMP for (b).

- [**Additional: for 3-member teams**] Combine the two implementations into a hybrid solution using message passing at the top-level and shared memory within each node.