COMP 5704: Parallel Algorithms and Applications in Data Science

This is a fully synchronous online course via Zoom. Classes are Wednesdays 2:30 – 5:30 from Sep 09 to Dec 11, 2020. The Zoom link will be e-mailed to everybody on the class list. If you have not received a Zoom link, please send me an e-mail to frank@dehne.net

Office Hours: Via Zoom. By appointment.

Course Outline

Multiprocessor architectures from an application programmer’s perspective: programming models, processor clusters, multi-core processors, GPUs, algorithmic paradigms, efficient parallel problem solving, scalability and portability. Projects on high performance computing in Data Science, incl. data analytics, bioinformatics, simulations. Programming experience on parallel processing equipment.

For more information, please go to the course website
www.dehne.net/teaching