Programming GPUs with CUDA

Seminar at Computer Science Dept. Univ. of Auckland
December, 13th, 2012. Room 303.B11 @ Science Centre Building.

Lecturer: Manuel Ujaldon. Nvidia CUDA Fellow.

Contents:

09:30 - 11:00  The GPU hardware: Many-core Nvidia developments.
11:00 - 11:20  Break.
11:20 - 12:30  CUDA Programming: Threads, blocks, kernels, grids.
12:30 - 14:00  Lunch break.
14:00 - 15:30  The Kepler architecture and future Nvidia designs.
15:30 - 15:50  Break.
15:50 - 16:50  Optimizing GPU codes on Kepler. CUDA 5.0.
16:50 - 17:00  Questions and open time for discussion.

Target audience: Researchers/students with basic knowledge of parallelism and C programming. CUDA programmers can join us during the afternoon sessions.