PhD project available

School of Engineering and Information Technology,
The University of New South Wales,
Australia, www.unsw.adfa.edu.au

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Project Title: Deep Learning to Uncover Insights from Scientific Simulations
Supervisors: Professor Tapabrata Ray and Dr. Fangbao Tian
Degree: PhD in Mechanical Engineering / Computer Science

Project description:
Scientific simulations are increasingly becoming complex and development of approximation models rely heavily on the detection of the correct set of features. This project will focus on development of efficient deep learning models that can solve both inverse and optimum configuration problems involving flowfields.

Required Background:
Good programming (Matlab, C/C++) and analytical skills, preferably with a Masters Degree in Engineering / Computer Science. Prior research experience in optimization/GPU computing/CFD would be useful. Demonstrated competence in academic writing and oral presentation skills is necessary. Must meet UNSW admission criteria and English Language requirements.

Expected joining:
As soon as possible. Please send scanned copies of transcripts and CV to t.ray@adfa.edu.au

For more information:
Multi-disciplinary Design Optimization (MDO) Group: http://www.mdolab.net/index.html
Flow Science Lab: http://fsl-unsw.com/TianFSL/index.html