

Dr. Junji Sawamura from University of Tokyo

Title: Multi-scale computational structural mechanics

Time: Tuesday 25th January at 14.15 - 15.00

Where: Room T6 at MTS, Tyholt

Abstract:

Computational simulation techniques are rapidly developing. Many simulation methods that are based on FEM, exist. Popular analysis approaches are multi-scale simulation, meshless method and finite cover method and so on. But, they almost have not been used in practical simulation .

Dr. Sawamura's group at the University of Tokyo has applied these new simulation methods to practical structural analysis. In this lecture examples of computational analyses of sea ice collapse, and ("nonotechnology") LSI devices analysis are presented using such techniques. He shows the advantage of computational simulation and that it is very useful for practical simulation of marine structures.