

ERASMUS Lecture Series

Engineering Simulations using Parallel Computers

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Due to increasing complexities of finite element numerical models and large mesh sizes used for finer resolution, modern day engineering analyses impose higher demands on computer hardware. As a result, parallel computing is gaining momentum in the engineering community.

Within this lecture series different topics in present-day engineering simulations are addressed:

Multi-physics Engineering Simulations for Transient Dynamics using Parallel Computers

Thursday 24.04.08, 10:30 – 12:00 h

PCG (pre-conditioned gradient) and PCR (pre-conjugate residual) iterative solver performance for thin shell problems that arise in automotive and aerospace engineering

Part I **Thursday 24.04.08, 14:30 – 16:00 h**

Part II **Friday 25.04.08, 10:30 – 12:00 h**

Earth Quake Engineering - simulations and experiments at Kandilli Observatory

Friday 25.04.08, 13:00 – 14:30 h

**JSC - Seminar room I (R. 107)
Forschungszentrum Jülich**

Anyone interested is cordially invited to participate.

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