



Workshop

“Recent developments in phase transitions in optimization problems”

[Student seminar accompanying the lecture “Phase transitions in optimization problems”]

Helsinki University of Technology, Dep. Computer Science & Engineering
Friday 12. October 2007, 10:00-19:00, room TB353

Organized by: Alexander K. Hartmann (University of Oldenburg, Germany),
Pekka Orponen (HUT), Petri Savola (HUT)

Schedule:

10:00	Joni Pjarinen Calculation of typical running time of a branch-and-bound algorithm for the vertex-cover problem
10:45	Matti Peltomäkki Vertex-cover problem (and variants) on other graph ensembles
11:30	Olli Ahonen Combinatorial auctions: generalizations of the vertex-cover problem
12:15	Lunch
13:15	Juha Koivisto Phase transitions in generalized SAT problems
14:00	Jari Rosti Modern Walk-SAT algorithms
14:45	André Schumacher Generating hard but solvable SAT formulas
15:30	Coffee break
16:00	Leena Salmela Phase transition in the Number-Partitioning Problem
16:45	Antti Hyväinen Phase transition in minimizing spin-glass energies
17:30	Petri Savola Unbiased generation of metastable states for 2d Ising spin glasses
18:15	Matti Sarjala Phase transition in ground states of random-field systems and running time of maximum-flow algorithms
20:00	Dinner