



Call for Papers of SAINT2008 Workshop(6) - HEUNET 2008

Workshop Summary

Panel Session, August 1st, 2008

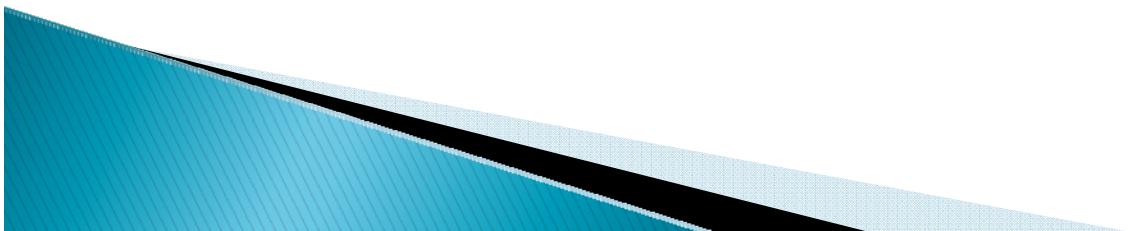
Mario Köppen, Günther R. Raidl

Martin Gruber

Workshop on Heuristic Methods for the Design, Deployment, and Reliability of Networks and Network Applications (HeuNET 2008)

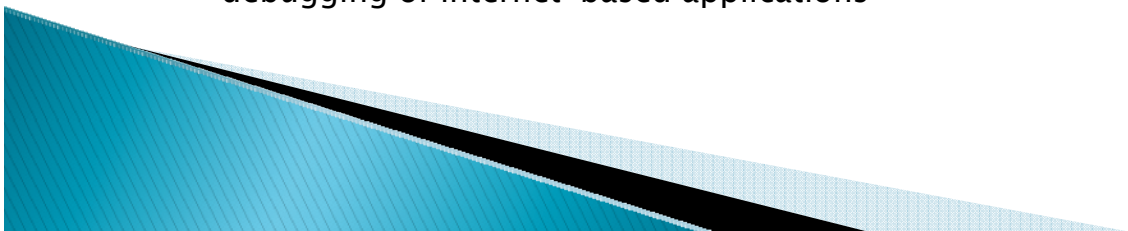
More and more complex optimization problems, not always possible to find exact analytical solutions
→ heuristic techniques

- evolutionary computation
- tabu search
- simulated annealing ...
- hybrid and ensemble approaches



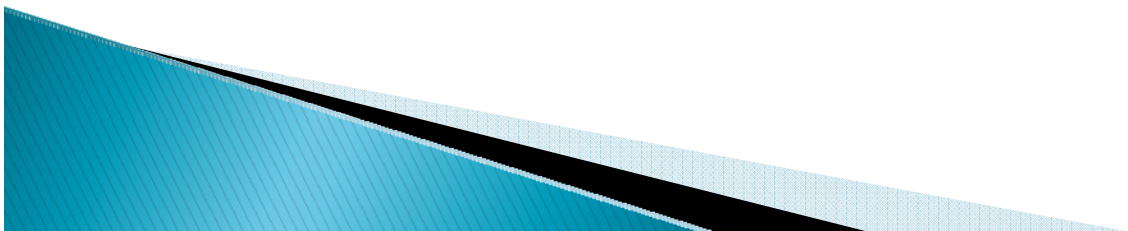
Topics

- network design
- handling networking problems by graph theory
- QoS solutions
- modeling of network-based services
- scaling of networks
- human-machine interface
- digital convergence
- user modeling
- network bottleneck identification
- efficient content delivery schemes
- service authentication and authorization schemes
- service scheduling
- network security
- service and content retrieval and ranking
- debugging of internet-based applications



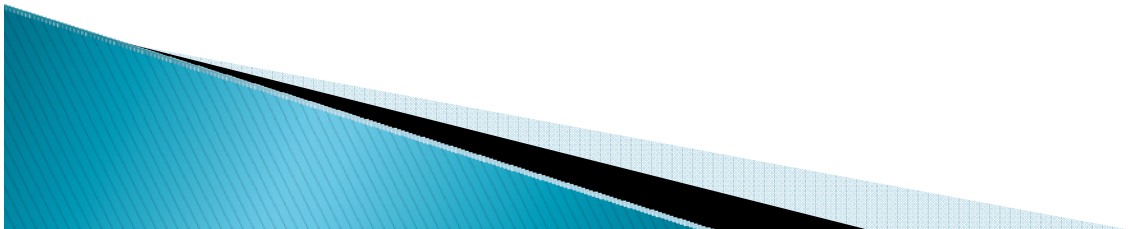
Program Summary

- 17 submissions from 8 countries
- 11 submissions accepted (1 withdrawal)
- Main reasons for rejection:
 - topic not fitting
 - lack of experimental evaluation
 - incomplete comprehension of problem domain
 - poor presentation



Accepted Papers: Topics

- facility location problems
- routing and wavelength assignment
 - QoS, update of network infrastructure
 - wireless sensor networks (coverage, lifetime)
 - fairness in resource allocation
 - data collection & anonymity
 - information sharing
- extended Fibonacci cubes



Accepted Papers: Methodologies

- multi level approaches
- local search
- variable neighborhood search
- memetic simulated annealing
- random walks
- evolutionary multi-objective optimization
- greedy randomized adaptive search
- integer linear programming:
relaxation
heuristics for branch&cut

Future of HeuNET?

... probably in Korea in two years
(currently under discussion)

Thank you!

