Special Session on: 
Metaheuristics and complex shop scheduling: single and multiobjective optimization

Proposed by:
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Short presentation: This session deals with the latest contribution concerning complex shop scheduling problem. Indeed the products become more and more sophisticated which leads to production process difficulties. The latter involves some special features as re-entrant process, stochastic routing, hybrid structures, automation facilities (robot …), etc. These characteristics produce some hard constraints in the problems which is much more difficult to solve. Then dedicated methods must be developed to solve these problems as: dedicated heuristics, exact methods (Branch & Bound, Two Phases Method …), metaheuristics (genetic algorithms, Ant Colony System, Particle Swarm Optimization …) or mathematical programming.
Topics of this session are following (not limited to):
- Scheduling, (flowshop, jobshop, openshop …)
- Metaheuristics (genetic algorithm, ant colony system, particle swarm optimization, …)
- Mathematical programming (Cplex, COIN, …)
- Multi-objective optimization

Keywords: Scheduling, Multi-objective optimization, performances evaluations, optimization

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