Dynamic Optimization

Special session of MCO 2015

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http://lita.sciences.univ-metz.fr/iccsama2015/MCO/index.php

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In recent years, dynamic optimization has attracted much interest due to its practical relevance. Indeed, many real-world optimization problems are dynamic in nature, i.e. their objective function changes over time. Typical examples include resource allocation, dynamic vehicle routing, scheduling, and object tracking. In other cases, the objective function is uncertain or noisy as a result of simulation/measurement errors or approximation errors.
In addition, the design variables or environmental conditions may also be perturbed or changed over time. The objective of an efficient dynamic metaheuristic algorithm is to locate the global optimum solution, to continuously track the optimum in dynamic environments, and/or to find a robust solution that operates optimally in the presence of uncertainties.

This special session aims at bringing academic researchers and practitioners together to review the latest advances and explore future directions in this field. Topics of interest include, but are not limited, to:

- Benchmark problems and performance measures
- Tracking moving optima
- Dynamic multiobjective optimization
- Adaptation, learning, and anticipation
- Handling noisy fitness functions
- Using fitness approximations
- Searching for robust optimal solutions
- Comparative studies
- Hybrid approaches
- Theoretical analysis
- Real-world applications

Papers on all topics related to the session's theme are solicited.
Prospective authors should submit their papers via the online submission system of MCO 2015. Authors are advised to pay careful attention when selecting a paper category.

In addition, an e-mail message including the paper Id, title of paper, author names, and abstract must be sent to: siarry[[at]]u-pec.fr and all accepted novel and unpublished papers will be published in the conference proceedings of MCO 2015, a bound volume by Springer-Verlag in their **Advances in Intelligent Systems and Computing** series.