Special Issue on "Metaheuristics and the Cloud"

Cloud computing is, undoubtedly, one of the main computing paradigms existing nowadays. In the last years, it raised the interest of both academic and industrial worlds thanks to its interesting properties, such as elasticity, flexibility, or computational power, among many others. Cloud computing is becoming very popular and extended among Internet users thanks to the wide variety of services it provides, from high performance computing to storage or web services.

Cloud providers need to face many different optimisation problems in order to provide the best service to their users, and minimise their costs. Metaheuristics are well known optimisation methods that proved to be extremely useful in many different domains. In the cloud, metaheuristics are being used to optimise a variety of problems, focussed on minimising energy consumption, optimising the data allocation and replication, or maximising the use of resources, among others.

This special issue focusses on novel solutions that contribute to the optimisation of problems that are identified in the framework of the cloud.

Scope of Special Issue

- Optimisation of cloud related problems
- New parallel metaheuristics for the cloud
- Energy-efficiency in the cloud
- Scheduling in the cloud
- Optimisation of data centers and cloud networking
- · Optimisation of protocols for the cloud
- · Optimisation of data management in the cloud
- Optimisation of services for the cloud
- Efficient virtualization and consolidation
- Metaheuristics for security in the cloud
- Metaheuristics for reliability in the cloud

Important Dates

Full Paper Regular Submission Due:

Extended versions of CLOUDNET Best Papers due:

Notification of Results:

Revisions Due:

Notifications of Final Acceptance:

Submissions of Final Revised Papers:

October 31st, 2014

January 15th, 2015

March 15th, 2015

April 15th, 2015

May 15th, 2015

June 15th, 2015

Submission

This special issue invites original research papers that present novel ideas and encourages submission of "extended versions" of 2-3 Best Papers from the IEEE CloudNet 2014 and META 2014 conferences. Every submitted paper will receive at least three reviews and will be selected based on the originality, technical contribution, and scope.

Submitted articles must not have been previously published or currently submitted for publication elsewhere. Papers should be submitted directly to the International Journal of Metaheuristics at:

http://www.inderscience.com/jhome.php?jcode=ijmheur.

When submitting your paper, please be sure that you choose the "Metaheuristics and the Cloud" special issue.

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