Special Issue of Informatica on

Grid, Cloud and Sky Applications for
Knowledge-based Industries and Businesses

Call for Papers

Many knowledge based industries and businesses active in the areas of engineering, finance, medicine, biology, pharmacy, telecommunications etc. today, are facing challenging scientific and engineering problems. In order to address their dynamically changing needs there is the need to be able to quickly develop, deploy and utilize specialized software service utilities, which provide access to powerful, distributed computing infrastructures. This is the motivation for using Grid, Cloud and Sky (Cloud of Clouds) computing technologies and associated programming models and platforms. Industries and businesses expect a number of benefits when using such software services including the access to high-performance computing resources and capabilities, ability to manage and analyse increasing volumes of distributed data, ability to control devices that exhibit their interfaces on the Internet, flexibility to choose from various Quality of Service offerings, possibilities for rapid development of software services through the use of new programming models, and so on.

The goal of the Special Issue is therefore to reflect the state-of-the-art in software services design, particularly related to the use of Grid, Cloud and Sky computing technologies and to present future trends.

Topics include, but are not limited to:

- investigation of industrial and scientific requirements for Grid, Cloud and Sky computing applications,
- architectural considerations for distributed applications,
- the Model Driven Architecture and its use in the software services domain,
- software services and the Internet of Things,
- business models and trends related to software services,
- migration of legacy codes to Cloud and Grid environments,
- the evolution of standards related to software services,
- innovative distributed computing applications.
Instructions for Authors

All submissions will be peer-reviewed by at least two independent reviewers with expertise in the domain. Prepare your manuscript according to the Informatica instructions for authors (http://www.informatica.si/instructions_for_authors.htm). Submit your contribution by e-mail to: vlado.stankovski@fgg.uni-lj.si with »Informatica SI on Grid, Gloud and Sky Applications« in the subject.

Deadlines

Submission: December 15, 2012
Notification: January 31, 2013
Submission of revised papers: February 28, 2013
Publication: mid 2013.

Guest Editors

- Vlado Stankovski, University of Ljubljana, Slovenia
- Dana Petcu, West University of Timisoara, Romania

For enquiries contact by e-mail: vlado.stankovski@fgg.uni-lj.si