

# Message from the BusinessClouds 2014 Workshop Chairs UIC-ATC-ScalCom 2014

It is our great pleasure to welcome you to the first International Workshop on New Models, Algorithms and Simulation Tools for Cloud Computing, Cloud Brokering, Internet Shopping, and E-commerce Trading (BusinessClouds-14) held in conjunction with the 14th IEEE International Conference on Scalable Computing and Communications (ScalCom-14) in Bali, Indonesia between December 9-12, 2014. There are also other co-located conferences, namely the 11th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC-14) and the 11th IEEE International Conference on Autonomic and Trusted Computing (ATC-14), and their associated workshops, which make a very good event not only to share knowledge, experience and innovations on latest technologies and applications, but also to provide a valuable opportunity which allows close inter-disciplined interaction among participants.

Cloud computing is, undoubtedly, one of the main existing computing paradigms nowadays. In the last years, it raised the interest of both academic and industrial worlds thanks to their interesting properties, such as elasticity, flexibility, or computational power, among many others. Cloud computing provides a stack composed of different kinds of services to users: Infrastructure as a Service (IaaS), dealing with resources as servers, storage, or networks; Platform as a Service (PaaS), which provide an operating system as well as a set of tools and services to the user; or Software as a Service (SaaS), that allows providers to grant customers with access to licensed software. The figure of cloud broker arises as an intermediary entity between cloud providers and users to help the latter ones in the process of choosing the most appropriate services among those offered by the different CSPs, according to their particular needs. There are different services that cloud brokers can provide, from simply finding the best deals among a set of clouds for the user requirements to defining the best possible design to deploy the user's application in the cloud. Additionally, the cloud broker can consider the QoS and SLA from the CSPs as parameters to compare with the results from the historical data or log analysis based on the on-running services of the cloud users, in order to ensure high QoS.

One can notice many similarities between cloud brokering and Internet shopping issues motivated by the problem of buying multiple products from different e-commerce web sites. There are still many links to different e-commerce trading options were cloud computing, cloud brokering, e-commerce, Internet shopping, and some new others approaches come together.

The BusinessClouds-14 workshop provides vibrant opportunities for researchers and industry practitioners to share their research experience, original research results and practical development experiences on specific new challenges and emerging issues.

Workshop will provide contributions to significant topics that are under interest of ScalCom-14 conference. Among others, we suppose strong contributions in such areas like:

- Cloud/Grid Computing (Resource sharing/monitoring, Data storage, Replication, load balancing, Green cloud systems and networking, Mobile cloud system design, and others).
- Modeling and Simulation in Cloud Applications (Combinatorial Optimization, Computational Finance, Computational Neuroscience, Computational Biology Computational Physics and Chemistry and others)
- Applications for Cloud Brokering, Internet Shopping (Combinatorial Optimization, Exact algorithms, Heuristic approaches, Evolutionary algorithms, Swarm Intelligence, Optimization algorithms, and others.)

Within the workshop we have 3 papers and several invited interesting presentations. All of them are high quality research - different topics from the workshop scope. Well known keynote speakers further raise the scientific status of the workshop. Moreover, we plan to introduce very interesting European project that fits perfectly workshop and conference scopes.

We would like to kindly thank ScalCom-14 Workshop Chairs, in particular Dr. Shadi Ibrahim, for all his guidance and kind help. The Organizing Committee of ScalCom-14 is acknowledged for taking care of local arrangement for BusinessClouds-14 and we are thankful to Prof. Bernady O. Apduhan, and Prof. Rappa Thulasiram, the General Chairs and their team for their hard working and effort in all the local arrangement. Moreover, this workshop would not have been possible without the support from our general chairs, program committee members and the authors. We highly appreciate their hard working and contribution. Finally, but not the least, our thanks go to Dr. Jędrzej Musiał for his help and the excellent work in setting up the web site for the workshop.

We are certain about the success of the ScalCom-14 conference and all the associated workshops. We sincerely hope that all the participants will benefit from the program and have a wonderful stay in Bali, Indonesia. Moreover, we express our hope that the BusinessClouds-14 workshop stays in the ScalCom-14 conference calendar in future, providing many interesting contributions.

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