

# 8<sup>th</sup> IEEE/ACM International Conference on Utility and Cloud Computing

December 07-10, 2015 – St. Raphael Resort, Limassol, Cyprus

## CONTEXT AND SCOPE

Cloud Computing delivers computational resources on-demand as services that are commoditized and delivered analogous to traditional utilities such as electricity, gas, water and telephony. Cloud service offerings for compute, storage and communication resources as well as for hosted software and data are growing at a tremendous rate, and it is essential to understand how to effectively transform these services into Utilities that provide value to both users and providers. There is also increasing interest from commercial providers to offer business and revenue models around the services they offer. Understanding how these models could be used to provide utility for users, intermediary brokers (aggregators) and providers is also an area of active research. UCC is the premier IEEE/ACM conference covering all areas related to Cloud Computing as a Utility and provides an international forum for leading researchers and practitioners in this important and growing field. UCC 2015, to be held in Cyprus, will happen as Cloud providers worldwide add new services and increase Cloud utility at an accelerated pace, and Cloud service users explore new usage modes.

This will be the 8th UCC in a successful conference series. Previous events were held in Shanghai, China (Cloud 2009), Melbourne, Australia (Cloud 2010 & UCC 2011), Chennai, India (UCC 2010), Chicago, USA (UCC 2012), Dresden, Germany (UCC2013), and London, UK (UCC 2014).

## CALL FOR PAPERS

Authors are invited to submit original unpublished research manuscripts that demonstrate current research in all areas of Cloud and utility computing including design and analysis of distributed and centralized Cloud systems, data centre design and engineering, economic and market models for cloud systems, revenue and business models and their applications in scientific, engineering, and commercial deployment.

**Topics of interest include but are not limited to:**

- Big Data and Analytics
- Principles and theoretical foundations of Utility Computing, including pricing and service models
- Policy languages and Programming models
- Utility driven model and mechanisms for Cloud federations
- Autonomic techniques for Clouds and Cloud applications
- Utility-driven platforms for Clouds
- Architectural models to achieve Utility in Clouds
- Designs and deployment models for Clouds: private, public, hybrid, federated, aggregated
- Cloud Computing middleware, stacks, tools, delivery networks and services at all layers (XaaS)
- Virtualization technologies and other enablers
- Economic models and scenarios of use
- Scalability and resource management: brokering, scheduling, capacity planning, parallelism and elasticity, as well as marketplaces
- Cloud management: autonomic, adaptive, self-\*, SLAs, performance models and monitoring
- Applications: games, social networks, scientific computing (e-science) and business
- Mobile and energy-efficient use of Clouds
- Beyond technology: Cloud business and legal implications, such as security, privacy, trust and jurisdiction especially in Utility contexts

One or more best paper awards will be given for outstanding contributed papers. Further details as well as submission guidelines are available at the conference website.

# MANUSCRIPT GUIDELINES

Submitted manuscripts should be structured as technical papers and may not exceed ten (10) single-spaced double-column pages using 10-point size font on 8.5x11 inch pages (IEEE conference style), including figures, tables, and references.

Electronic submissions must be in the form of a readable PDF file. Manuscripts must be received by July 03, 2015. All manuscripts will be reviewed by the Program Committee and evaluated on originality, relevance of the problem to the conference theme, technical strength, rigor in analysis, quality of results, and organization and clarity of presentation of the paper.

Submitted papers must represent original unpublished research that is not currently under review for any other conference or journal. Papers not following these guidelines will be rejected without review and further action may be taken, including (but not limited to) notifications sent to the heads of the institutions of the authors and sponsors of the conference. Submissions received after the due date, exceeding length limit, or not appropriately structured may also not be considered. Authors may contact the Program Chair at the email address below for further information or clarification. Notification of review decisions will be mailed by August 21, 2015. Camera-ready papers are due by September 21, 2015. Published proceedings will be available at the conference.

At least one author of each paper must be registered for the conference in order for the paper to be published in the proceedings. There is NO student rate for the author who is responsible for registration for his/her published paper. If you have more than one accepted paper, you have to register for each one individually. There is no discount if you have two or more papers accepted. Presentation of an accepted paper at the conference is a requirement of publication. Any paper that is not presented at the conference will not be included in IEEE Xplore.

## SPECIAL ISSUES

Selected papers from the conference will be invited to submit an extended version to reputable journals for special issues. Papers will be selected based on their reviewers' scores and appropriateness to the Journal's theme. All extended versions will undergo reviews and must represent original unpublished research work. Further details will be made available at the conference webpage.

## COMMITTEES

### General Chairs

- Ashiq Anjum, University of Derby, UK
- George Papadopoulos, University of Cyprus

### Program Committee Chairs

- Manish Parashar, Rutgers University, US
- Omer Rana, Cardiff University, UK

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- Alan Sill, Texas Tech, USA & Open Grid Forum

### Workshops Chairs

- Ilkay Altintas, SDSC, USA
- Josef Spillner, TU Dresden, Germany

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- Rafael Tolosana, Univ. of Zaragoza, Spain

### Posters Chair

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### Cloud Challenge 2015 Chair

- Ian Taylor, Cardiff University, UK

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- Achilleas Achilleos, University of Cyprus, Cyprus

### Proceedings Chairs

- Nick Antonopoulos, University of Derby, UK
- George Palis, University of Cyprus, Cyprus

### Publicity Chair

- Georgia Kapitsaki, University of Cyprus, Cyprus

## IMPORTANT DATES

- Workshop proposals due: 08 May, 2015
- Tutorial proposals due: 03 July, 2015
- Paper submissions due: 03 July, 2015
- Notification of acceptance: 21 August, 2015
- Camera ready papers due: 21 September, 2015
- Early registration deadline: 21 September, 2015

## CONTACT

### Academic Matters

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