



## **Cloud Computing Technoeconomic Engineering (CCTE) Workshop**

**in conjunction with**  
IEEE International Conference on Cloud Engineering 2016  
([IC2E 2016](#))

Berlin, Germany  
April 4-8 2016

### **Call for Papers**

Cloud Computing delivers on-demand resources just like commoditized services, such as electricity, gas, water and telephony. The substantial growth rate of resource demand and provision, as well as of the global cloud traffic make create an imperative need for a detailed techno-economic analysis focusing, among others, on demand forecasting for cloud services, economic assessment of the investments needed to support this emerging computational model, switching costs, market competition, etc. The development of new usage and provision models and the understanding of how they could be used to provide utility for users, intermediary brokers (aggregators) and providers are also of paramount importance.

CCTE combines process modeling and engineering design with economic evaluation, providing with both qualitatively and quantitative understanding of the impacts technology and business processes have on the cloud computing model, seeking to harvest its potential.

The workshop aims to serve as a melting pot for researchers and practitioners both in the areas of cloud computing and business management, in order to discuss and combine best practices in these fields into novel ideas and frameworks to accommodate new business models to harvest the potential of cloud computing taking into account both technological limitations and challenges, as well as market demands.

An invited talk in the important area of cloud computing brokering will also be presented from an industry key-player.

## Topics

We encourage submissions from both the academia and the industry are sought of the following types: a) original research work from authors in multiple fields, b) ideas papers exploring challenges and research roadmaps for the technoeconomic analysis of cloud infrastructure and services, c) case studies on successful business models to explore its potential. Topics include, but are not limited to:

- Innovative Business Models for the Cloud
- Cloud Service Pricing
  - Price Indices for Cloud Services
  - IAAS, PAAS, SAAS pricing policies
  - Social surplus maximization
  - Real options
- Investing on Cloud Infrastructures
  - Investment Models
  - Cost/Benefit Analysis
  - Revenue maximization
  - Service Demand and Return on Investment
  - Switching Costs
- Cloud adoption and diffusion
  - Forecasting demand for cloud services
  - Forecasting users' demand for resources
  - Strategy for Enterprise Business Transformation
  - Case studies
- Cloud Service Cost Engineering
  - ROI analysis
  - Total Cost of Ownership (TCO) analysis
  - Economy efficient use of the cloud
- Modeling and Simulation of the Cloud
  - Infrastructure and Services
  - Client Behavior and Demand
  - Client – Provider Interaction
  - Large Scale Systems
  - The Cloud as a System-of-Systems
  - Game theory approaches
- Cloud Brokering
  - Business models and brokering mechanisms
  - Value added services
  - Migration
  - Cloud brokering platforms
- Cloud Service Composition
  - Combining Services from Multiple Providers
  - Optimizing Cost/Service Analysis
- Case Studies and Experience Reports
  - Successful business models
  - Lessons Learned

## Important Dates

Paper Title and Abstract due: **November 5, 2015**

Paper Submission deadline: **November 15, 11:59pm PST, 2015**

Notification: **December 15, 2015**

Camera ready: **January 15, 2016**

## Submission Instructions

The results described in the submitted papers must be unpublished and must not be under review elsewhere. Papers should be submitted in PDF format. Submissions must conform to IEEE conference proceedings format and should not exceed **6 pages** using 10-point font in the **IEEE 8.5" x 11" two-column format** ([http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)), including all text, figures, references and appendices.

Three to five keywords characterizing the paper should be indicated at the end of the abstract.

Information about paper format can be found in IC2E 2106 site at [http://conferences.computer.org/IC2E/2016/paper\\_submission.htm](http://conferences.computer.org/IC2E/2016/paper_submission.htm)

Submission of a paper should be regarded as an undertaking that, should the paper be accepted, at least one of the authors will register and attend the workshop to present the paper.

**Extended versions of accepted papers will be invited for review in a special issue of an International Journal.**

**Submissions should be made electronically using EasyChair at:**

<http://easychair.org/conferences/?conf=ic2eccte>

## Program Committee Chairs

Christos Michalakelis ([michalak@hua.gr](mailto:michalak@hua.gr))  
Harokopio University of Athens, Greece

Mara Nikolaidou ([mara@hua.gr](mailto:mara@hua.gr))  
Harokopio University of Athens, Greece

Jorge Barbosa ([jbarbosa@fe.up.pt](mailto:jbarbosa@fe.up.pt))  
University of Porto, Portugal

Katie Wood ([K.Wood@wlv.ac.uk](mailto:K.Wood@wlv.ac.uk))  
University of Wolverhampton, UK

More info

<http://ccte.hua.gr>