

# ***Third International ICST Conference on Networks for Grid Applications***

***“GridNets 2009”***

***September 8-9, 2009 – Athens, Greece***

## **Tuesday September 8**

### **9h00 Welcome**

Opening of the GridNets 2009 conference (Ioannis Tomkos)

### **9h30 Keynote**

Keith Jeffery

Director IT and International Strategy of Science and  
Technology Facilities Council, Rutherford Appleton  
Laboratory, UK

*GRIDS, CLOUDs, Web2.0: New Challenges for Informatics*

### **10h30 Coffee break**

#### **Green Grids**

Chair: Chris Develder

Ghent University - IBBT, *Belgium*

### **10h45**

Introduction

### **11h00**

Isabella Cerutti

Scuola Superiore Sant'Anna, Italy

*Designing power-efficient WDM ring networks (invited)*

### **11h30**

Fabrice Saffre

BT Innovate and Design, UK

*Migration of distributed components for energy-efficient  
services (invited)*

### **12h00**

Willem Vereecken

Ghent University - IBBT, Belgium

*(invited)*

### **12h30**

Michael C Parker

Stuart Walker

University of Essex, UK

*An Absolute Network Energy Efficiency Metric*

### **12h50 (note: this is a wireless grids talk)**

Tina Balke

University of Bayreuth, Germany

*Challenges for Social Control in Wireless Mobile Grids*

### **13h10 Lunch**

## General session I

**Session chair:** Theodora Varvarigou

**14h00**

Costas Courcoubetis

Athens University of Economics and Business, Greece  
(invited)

**14h30**

Yuri Demchenko

Mihai Cristea

Cees De Laat

Evangelos Haleplidis

University of Amsterdam, The Netherlands  
*Authorisation Infrastructure for On-Demand Grid and Network  
Resource Provisioning*

**14h50**

Antonios Gouglidis

Ioannis Mavridis

University of Macedonia, Greece  
*On the Definition of Access Control Requirements for Grid and  
Cloud Computing Systems*

**15h10**

Serafim A. Kotrotsos

EXIS IT, Greece

Peter Racz

Cristian Morariu

University of Zurich, Switzerland

Katerina Iskioupi

EXIS IT, Greece

David Hausheer

Burkhard Stiller

University of Zurich, Switzerland  
*Business Models, Accounting and Billing Concepts in Grid-  
aware Networks*

**15h30 Coffee break**

## General session II

**Session chair:** Anastasios Doulamis

**16h00**

Panayiotis Tsanakas

NTUA, Greece

*Challenges and opportunities of Cloud computing in research  
and education (invited)*

**16h30**

Yan Li

Sanjay Ranka

Mark Schmalz

Sartaj Sahni

University of Florida, USA  
*Network Centered Multiple Resource Scheduling In e-Science  
Applications*

**16h50**

Francesco Palmieri

Federico II University of Napoli, Italy

*Percolation-based replica discovery in peer-to-peer grid  
infrastructures*

**17h10**

Wantao Liu

School of Computer Science and Engineering, Beihang

University, Beijing, China

Department of Computer Science, The University of Chicago,  
Chicago, IL USA

Rajkumar Kettimuthu

Mathematics and Computer Science Division, Argonne

National Lab, Argonne, IL USA

Computation Institute, The University of Chicago, Chicago, IL  
USA

Brian Tieman

Advanced Photon Source, Argonne National Lab, Argonne, IL  
USA

Ravi Madduri

Mathematics and Computer Science Division, Argonne  
National Lab, Argonne, IL USA  
Computation Institute, The University of Chicago, Chicago, IL  
USA

Bo Li

School of Computer Science and Engineering, Beihang  
University, Beijing, China

*GridFTP GUI: An Easy and Efficient Way to Transfer Data in  
Grid*

**17H30 (sessions over)**

**Social event TBA.**

**Wednesday September 9**

**9h00 HellasGrid presentation**

**9h30 Keynote**

Joe Mambretti

International Center for Advanced Internet Research,  
Northwestern University (iCAIR.org), Metropolitan Research  
and Education Network (<http://www.mren.org/>)

*Designing 21st Century Communications: Architecture,  
Services, Technology, and Facilities*

**10h30 Coffee break**

**General session III**

**Session chair:** Joe Mambretti

**10h45**

Nectarios Koziris

NTUA, Greece

*Online storage services for the masses and the case of Pithos  
(invited) – 30 min*

**11h15**

Charaka Palansuriya

Jeremy Nowell

Florian Scharinger

Kostas Kavoussanakis

Arthur S. Trew

The University of Edinburgh

*An Alarms Service for Monitoring Multi-Domain Grid  
Networks*

**11h35**

Fabiano Costa Teixeira

Marcos José Santana

Regina Helena Carlucci Santana

Julio Cezar Estrella

University of São Paulo

*Grid Anyware: An Architecture for Grid Computing Able to Explore the Computational Resources of the Set-top Boxes*

**11h55**

Robert Grossman

National Center for Data Mining, University of Illinois at Chicago, USA

Open Data Group, USA

Yunhong Gu

Michal Sabala

National Center for Data Mining, University of Illinois at Chicago, USA

Colin Bennet

Jonathan Seidman

Open Data Group, USA

Joe Mambretti

International Center for Advanced Internet Research, Northwestern University, USA

*The Open Cloud Testbed: Supporting Open Source Cloud Computing Systems Based On Large Scale High Performance, Dynamic Network Services*

**12h15**

Vassiliki I. Andronikou

Konstantinos Mamouras

Dimosthenis Kyriazis

Konstantinos Tserpes

Anastasios Doulamis

Theodora Varvarigou

National Technical University of Athens

*Dynamic Data Replication in QoS-aware Data Grids considering Network Overheads*

**12h35 Lunch****Wireless grids**

Chair: Frank Fitzek

Aalborg university, Denmark

**13h30**

Joe Treglia

Angela Ramnarine-Rieks

Lee McKnight

School of Information Studies, Syracuse University, NY, USA  
*Collaboration in a Wireless Grid Innovation Testbed by Virtual Consortium*

**13h50**

Péter Vingelmann

Budapest University of Technology and Economics, Hungary

Frank Fitzek

Aalborg University, Denmark

*Implementation of Random Linear Network Coding using NVIDIA's CUDA toolkit*

**14h10**

Eliza Consuela Isbasoiu

Spiru Haret University, Romania

*Services for Numerical Calculation*

**14h30**

Tatiana Madsen

Aalborg university, Denmark

*Different Strategies for Network Coding in Local Interchange Scenarios*

**14h50**

João Paulo Pereira

ESTiG - IPBragança, Portugal

*Architecture to Integrate Wireless Grids and Broadband Access Networks*

**15h10 Coffee break**

## Optical grids

Chair: Kyriakos Vlachos

RACTI, Greece

Co-chair: Dominique Verchère

Alcatel-Lucent Bell Labs, France

### 15h30

Sergio Figuerola

Jordi Ferrer

i2cat, Spain

*Network interfaces for Grid applications, functionalities and services (invited)*

### 16h00

Ashwin Gumaste

IIT Bombay, India

Mallik Tatipamula

Juniper, USA

Ahmed Guetari

Juniper, Greece

*Cloud Computing using Advanced Optical and Ethernet Technologies (invited)*

### 16h00

Richard Douville

Alcatel-Lucent Bell Labs, France

*(invited)*

**17h00 End of GridNets 2009.**