

# **HealthGrid conference 2010**

lundi 28 juin 2010 - vendredi 2 juillet 2010

University Paris XI - Laboratoire de l'Accélérateur Linéaire

## **Recueil des résumés**



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## Title to be confirmed

**Auteur correspondant** modesto.orozco@irbbarcelona.org

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## Title to be confirmed

Brilliant medical doctor and scientist, Professor Jean Claude Healy has contributed to the transformation of healthcare at the European level when he was leading the DG-INFSO unit “Telematic Applications for Health” at the European Commission. Jean-Claude was a devoted supporter of e-Health and also a great visionary who really got involved into the development of the HealthGrid initiative. In memoriam of Jean Claude Healy, who passed away in 2008, we have decided to give his name to the keynote speech about the prospective vision of healthgrids evolution, given yearly by a distinguished scientist invited to the HealthGrid conference. This year, we are honored to welcome Dr. Joan Helen Dzenowagis, WHO, to present the “Jean Claude Healy keynote speech”.

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**Auteur correspondant** modesto.orozco@irbbarcelona.org

**Future of grids / 4**

## **Putting a Heart into a Box: GPGPU simulation of a Cardiac Model on the XBox 360**

**Auteur correspondant** s\_scarle@hotmail.com

When they first hit the market the current “next” generation of games consoles are, pretty much by definition, the most powerful “bangs per buck” computing hardware one can get, especially in terms of their graphical computing power and advanced GPUs. However, little work has been published which actually uses this power to produce useful research results. One exception is my recent paper using the XBox 360 to carry out electro-cardio dynamics simulations, recently published in the Computational Biology and Chemistry\*. This I shall discuss in the broader context of using games consoles as an alternative HPC resource.

I shall also discuss the wider publicity generated by this paper, and highlight how games could be a very powerful tool in the Public Engagement with Science arena.

- Implications of the Turing Completeness of Reaction-Diffusion Models, informed by GPGPU simulations on an XBox 360: Cardiac Arrhythmias, Re-entry and the Halting Problem, S.Scarle, Computational Biology and Chemistry 33 253 (2009)

Video presentation at: <http://tinyurl.com/cpv3pc>

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## **Short contributions**

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## **Unconference**

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## **Oral contributions selected through call for papers**

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### **Grid-based International Network for Flu Observation (g-INFO)**

**Applications / 9**

### **Grid based Evaluation of a Liver Segmentation Method for Contrast Enhanced Abdominal MRI**

**Auteur correspondant** dagmar.krefting@charite.de

**Applications / 10**

### **Visualization, Analysis, and Design of COMBO-FISH Probes in the Grid-Based GLOBE 3D Genome Platform**

**Auteur correspondant** nick.kepper@bioquant.uni-heidelberg.de

**Applications / 11**

### **Grid Heterogeneity in In-silico Experiments: An Exploration of Drug Screening Using DOCK on Cloud Environments**

**Auteur correspondant** wenwaiyim@gmail.com

**Applications / 12**

**CHOIS: Enabling grid technologies for obesity surveillance and control**

**Auteur correspondant** adatta@nu.edu

**Applications / 13**

**Mean-Shift scale parameters optimization on the EGEE grid**

**Auteur correspondant** ting.li@creatis.insa-lyon.fr

**Core technologies and data integration / 14**

**Web service catalogue for Biomedical GRID infrastructure**

**Auteur correspondant** maxgarcia@uma.es

**Core technologies and data integration / 15**

**Phylogenetic Code in the Cloud –Can it Meet the Expectations?**

**Core technologies and data integration / 16**

**Integrating TRENCADIS Components in gLite to Share DICOM Medical Images and Structured Reports**

**Auteur correspondant** iblanque@dsic.upv.es

**Core technologies and data integration / 17**

**Research Traceability using Provenance Services for Biomedical Analysis**

**Auteur correspondant** peter.bloodsworth@cern.ch

**Core technologies and data integration / 18**

**Grid-wide neuroimaging data federation in the context of the NeuroLOG project**

**Auteur correspondant** alban.gaignard@i3s.unice.fr

**Core technologies and data integration / 19**

**Sentinel e-health network on grid: developments and challenges**

**Auteur correspondant** vlieger@clermont.in2p3.fr

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**Oral contribution n°13**

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**Oral contribution n°14**

**Accessibility and socio-economic aspects / 22**

**A Survey of Grid Knowledge and Grid Perception in Public Administrations**

**Auteur correspondant** xin.zhou@sim.hcuge.ch

**Accessibility and socio-economic aspects / 23**

**Programming distributed medical applications with XWCH2**

**Accessibility and socio-economic aspects / 24**

**Privacy aware access controls for medical data disclosure on European HealthGrids**

**Auteur correspondant** tony.solomonides@uwe.ac.uk

**Accessibility and socio-economic aspects / 25**

## **On Transferring the Grid Technology to the Biomedical Community**

**Auteur correspondant** mohammed@rrzn.uni-hannover.de

**Accessibility and socio-economic aspects / 26**

## **Décryphon Grid - Grid Resources Dedicated to Neuromuscular Disorders**

**Auteur correspondant** nicolas.bard@ens-lyon.fr

**Accessibility and socio-economic aspects / 27**

## **Hitting the Ground Running: Healthgrid deployment and adoption**

**Auteur correspondant** s.d.olabarriaga@amc.uva.nl

**Future of grids / 28**

## **Using Graphics Processors to Accelerate Protein Docking Calculations**

**Auteur correspondant** dave.ritchie@loria.fr

**Future of grids / 29**

## **CAPS sponsor talk**

**Auteur correspondant** stephane.bihan@caps-entreprise.com

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## **Workshop: outGRID project Workshop**

Conveners: Prof. Giovanni Frisoni (FateBeneFratelli, Italy)  
(15:00 - 18:30)

**Core technologies and data integration / 31**

## **Presentation of the OutGrid project**

**Auteur correspondant** cbarattieri@fatebenefratelli.it

**Workshop / 32**

## **Introduction, goal of the workshop**

**Workshop / 33**

## **Finnish NGI / Nordic use community**

**Auteur correspondant** antti.pursula@csc.fi

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## **NHRF, Greece**

**Workshop / 35**

## **NHRF, Greece**

**Auteur correspondant** achatzi@eie.gr

Aristotelis Chatzioannou

"Enabling distributed Processing and Management of Biological Data through fusion of Grid and Web Technologies"

**Workshop / 36**

## **Swiss Grid community (Swiss National Grid Association (SwiNG), and Swiss Institute of Bioinformatics)**

**Auteur correspondant** heinz.stockinger@isb-sib.ch

Life Science Grid Applications in Switzerland –Position Talk

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## **German user group(s) (TBC)**

**Auteur correspondant** dagmar.krefting@charite.de

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**Auteur correspondant** dagmar.krefting@charite.de

**Workshop / 41**

## **Dutch user community and NGI**

**Auteur correspondant** s.d.olabarriaga@amc.uva.nl

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## **Dutch user community and NGI**

**Workshop / 43**

## **French user community**

**Workshop / 44**

## **Spanish user community**

**Auteur correspondant** iblanque@dsic.upv.es

**Workshop / 45**

## **FKPPL and Rhône-Alpes Virtual Organizations**

**Workshop / 46**

## **LIBI Italian project**

**Auteur correspondant** guido.cuscela@ba.infn.it

**Workshop / 47**

## **eNMR EU project**

Alexandre Bonvin, "WeNMR: A worldwide e-Infrastructure for NMR and structural biology"

**Workshop / 48**

## **BILS\_Sweden**

**Auteur correspondant** erikbong@mac.com

**Workshop / 49**

## **Discussion**

**Workshop / 50**

## **Italian Life-Sciences initiative**

**Auteur correspondant** marco.verlato@pd.infn.it

**Workshop / 51**

## **LIFEWATCH**

**Auteur correspondant** w.los@uva.nl