HealthGrid conference 2010

Monday 28 June 2010 - Friday 02 July 2010

University Paris XI - Laboratoire de l'Accélérateur Linéaire

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Auteur(s) contact: erikbong@mac.com

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Auteur(s) contact: stephane.bihan@caps-entreprise.com

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CHOIS: Enabling grid technologies for obesity surveillance and control

Auteur(s) contact: adatta@nu.edu

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Auteur(s) contact: s.d.olabarriaga@amc.uva.nl

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Dutch user community and NGI

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Auteur(s) contact: antti.pursula@csc.fi

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German user group(s) (TBC)

Auteur(s) contact: dagmar.krefting@charite.de

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German user group(s) (TBC)

Auteur(s) contact: dagmar.krefting@charite.de

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Auteur(s) contact: wenwaiyim@gmail.com

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Auteur(s) contact: dagmar.krefting@charite.de

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Auteur(s) contact: alban.gaignard@i3s.unice.fr

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Auteur(s) contact: s.d.olabarriaga@amc.uva.nl

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Auteur(s) contact: iblanque@dsic.upv.es

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Italian Life-Sciences initiative

Auteur(s) contact: marco.verlato@pd.infn.it

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Auteur(s) contact: guido.cuscela@ba.infn.it

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Auteur(s) contact: w.los@uva.nl

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Auteur(s) contact: ting.li@creatis.insa-lyon.fr

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NHRF, Greece

Auteur(s) contact: achatzi@eie.gr

Aristotelis Chatziioannou
”Enabling distributed Processing and Management of Biological Data through fusion of Grid and Web Technologies”

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On Transferring the Grid Technology to the Biomedical Community

Auteur(s) contact: mohammed@rrzn.uni-hannover.de

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Auteur(s) contact: cbarattieri@fatebenefratelli.it

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Auteur(s) contact: tony.solomonides@uwe.ac.uk

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

Auteur(s) contact: 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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Research Traceability using Provenance Services for Biomedical Analysis

Auteur(s) contact: peter.bloodsworth@cern.ch

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Sentinel e-health network on grid: developments and challenges

Auteur(s) contact: vlieger@clermont.in2p3.fr

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Spanish user community

Auteur(s) contact: iblanque@dsic.upv.es

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

Auteur(s) contact: heinz.stockinger@isb-sib.ch

Life Science Grid Applications in Switzerland – Position Talk

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Title to be confirmed

Auteur(s) contact: modesto.orozco@irbbarcelona.org

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Title to be confirmed

Auteur(s) contact: 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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Using Graphics Processors to Accelerate Protein Docking Calculations

Auteur(s) contact: dave.ritchie@loria.fr

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

Auteur(s) contact: nick.kepper@bioquant.uni-heidelberg.de

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Web service catalogue for Biomedical GRID infrastructure

Auteur(s) contact: maxgarcia@uma.es

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Workshop: outGRID project Workshop

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

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eNMR EU project

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