Online Proceedings

IWPLS'09 focuses on research contributions for portals and tools in the field of life sciences. It brings together scientists from the fields of life science, bioinformatics and computer science. Its aim is to become the international platform to exchange experience, formulate ideas, and catch up on technological advances in molecular and systems biology in the context of portals.

All papers published in these proceedings were accepted through a peer-reviewing process. Each paper had a 30-minute presentation and each accepted abstract had a "lightning talk" of 10 minutes.

We would like to thank the authors for their contributions and our Program Committee for the effort put into reviewing. Nine papers were selected out of the excellent submissions. We owe much gratitude to the local organisers, for without their hard work the workshop would not have been such a success.

We acknowledge both the e-Science Institute in Edinburgh and the Scottish Bioinformatics Forum for their financial contributions.

Sandra Gesing, University of Tübingen, Germany
Jano van Hemert, National e-Science Centre, University of Edinburgh, UK

September 2009
Preface

Programme

Keynotes
Peter Brezany Workflow Management for e-Science Analytics
Peter Kacsuk P-GRADE Portal Family for e-Scientists

Talks
Ibrahim Elsayed Towards Realization of Scientific Dataspaces for the Breath Gas Analysis Research Community
Eduardo Gutierrez G-FLUXO: A workflow portal specialized in Computational BioChemistry
Jos Koetsier Rapid Development of Computational Science Portals
Jens Krüger Potential of Mean Force of Ion Permeation through alpha7 nAChR Ion Channel
Evert Lammerts Life Sciences & The Dutch Grid: An Analysis from a Grid Supporter’s perspective
Giuseppe La Rocca On the Performance of Large Scale Bayesian Phylogenetic Analyses with Grid Portals and Robot Certificates
Maurizio Melato Building Science Gateways with EnginFrame: a Life Science example
Luciano Milanesi Sys-Bio Gateway: a framework of bioinformatics database resources oriented to systems biology
Richard Sinnott Security-oriented Portals for the Life Sciences

Lightning Talks
Stuart Aitken On the Design of BioSphere: A Grid Portal for Collaborative Ontology Creation
Archie Campbell Generation Scotland Data Access Portal
Peter Horvatovich Data Analysis Framework for High Throughput Analysis of Proteomics LC-MS Data
Gregory Madey VectorBase: Biological Cyberinfrastructure for Research on Invertebrate Vectors of Human Pathogens
Darren Oakley The New Sanger Mouse Resources Portal: a testbed for collaborative data integration
Andre Ribeiro GROMACS Package within EELA-2
Morris Swertz MOLGENIS: Generating Extensible Data Portals for Life Science Communities
Morris Swertz Applying the e-Laboratory Concept to Galaxy, a Portal for Genomics Researchers
Timothy Wright Garki Online: E-Science Cyberinfrastructure for Research Data on Malaria Transmission
Preface

Organisation

Workshop Chair
Sandra Gesing, University of Tübingen, Germany

Workshop Co-Chair
Jano van Hemert, National e-Science Centre, University of Edinburgh, UK

Program Committee
Viktor Achter, University of Cologne, Germany
Stuart Aitken, University of Edinburgh, UK
Roberto Barbera, University of Catania and INFN, Italy
Maurice Bouwhuis, NBIC, Amsterdam, Netherlands
Antti Hyvärinen, Helsinki University of Technology, Finland
Ivan Janciak, University of Vienna, Austria
Phil Jones, EMBL EBI, Cambridge, UK
Joohyun Kim, Louisiana State University, Baton Rouge, US
Tamas Kiss, University of Westminster, UK
Jos Koetsier, National e-Science Centre, University of Edinburgh, UK
Oliver Kohlbacher, University of Tübingen, Germany
Miklos Kozlovszky, MTA SZTAKI, Budapest, Hungary
Tomasz Kuczynski, Poznan Supercomputing and Networking Center, Poland
Peter Kunszt, SystemsX.ch, Zürich, Switzerland
Luciano Milanesi, Institute of Biomedical Technologies, Milan, Italy
Steffen Müller, University of Lübeck, Germany
Jarek Nabrzyski, Center for Research Computing, University of Notre Dame, US
Lars Packschies, University of Cologne, Germany
Bengt Persson, Linköping University, Sweden
Richard Sinnott, National e-Science Centre, Glasgow, UK
Gergely Sipos, MTA SZTAKI, Budapest, Hungary
Chen Wang, CSIRO ICT Centre, Australia
Eric Yen, Academia Sinica Grid Computing Center, Taipei, Taiwan

Invited Speakers
Peter Brezany, University of Vienna, Austria
Peter Kacsuk, MTA SZTAKI, Budapest, Hungary