

Workshop NETTAB 2006

Distributed Applications, Web Services, Tools and GRID Infrastructures for Bioinformatics

Is Morus Relais, S. Margherita di Pula (CA)
and
POLARIS Science and Technology Park of Sardinia, Pula (CA)

<http://www.nettab.org/2006/>

Scientific Programme

Monday, July 10, 2006 (at Is Morus Relais)	
10.00-13.00	Registration and poster hang up
13.00-14.00	Lunch
14.00-14.40	Opening lecture BIOINFOGRID: Bioinformatics GRID based applications overview Luciano Milanesi, Institute of Biomedical Technology CNR-ITB, Milan, Italy
14.40-15.20	Invited lecture ICT technologies involved with GRID infrastructures Roberto Barbera, University of Catania and INFN, Italy
15.20-15.40	Coffee break
15.40-17.00	1 st Session GRID infrastructures for bioinformatics <ul style="list-style-type: none">• Replication and Update of Molecular Biology Databases in a Grid Environment, J. Salzemann, N. Jacq, G. Le Mahec, and V. Breton• A Grid infrastructure for managing workflows in bioinformatics applications A. Falzone, M. Melato, I. Porro, S. Ratto, A. Schenone, and L. Torterolo• A GRID-based multilayer architecture for bioinformatics E. Bartocci, D. Cacciagrano, N. Cannata, F. Corradini, E. Merelli, L. Milanesi, and P. Romano• A Service-oriented Grid Infrastructure for Biomedical Data and Compute Services T. Arbona, S. Benkner, J. Fingberg, G. Engelbrecht, M. Hofmann, K. Kumpf, G. Lonsdale and A. Wöhrer
Tuesday, July 11, 2006 (at Is Morus Relais)	
09.00-09.40	Invited lecture Setting up a Bioinformatics service Center in a distributed environment Patricia Rodriguez-Tomé, CRS4 Bioinformatics, Cagliari, Italy
09.40-10.40	2 nd Session Web Services, Software Agents, and Ontologies <ul style="list-style-type: none">• XML modeling of miRNA S. Lopez, G. Lu, and Z. Chen• Modeling gene expression data via positive Boolean functions F. Ruffino, M. Muselli, and G. Valentini• Unsupervised Method as a Quality Control Tool Improves the Microarray Analysis of Brain Gene Expression in Alcohol Research A. Lourdasamy, M. Ubaldi, L. Soverchia, R. Ciccocioppo, and E. Merelli

10.40-13.00	Coffee break and poster session
13.00-14.00	Lunch
14.00-15.20	3 rd Session Web Services, Software Agents, and Ontologies (cont.d) <ul style="list-style-type: none"> • Extraction of functionally similar bioinformatics workflows J. Seo, S. Senoo, Y. Takenaka, H. Matsuda • Bioinformatics Ontology: Towards the Automatics Generation of Bioinformatics Workflow for Web Services A. Konagaya • A MultiAgent System for Retrieving Bioinformatics Publications from Web Sources A. Addis, A. Manconi, M. Saba, and E. Vargiu • Pathway Assistant: a web portal for metabolic modelling P. Parikka, E. Pitkänen, A. Rantanen, A. Åkerlund, and E. Ukkonen
15.20-15.40	Coffee break
15.40-16.20	Invited lecture The EELA project: Biomedical Applications Rafael Mayo Garcia, CIEMAT, Madrid, Spain
16.20-17.00	4 th Session GRID applications and perspectives in genomics and proteomics <ul style="list-style-type: none"> • Microarray data infrastructure using GebbaLab A. Emerson, G. Fiameni, S. Giuliani, E. Rossi, and S. Volinia • A GRID approach for finding functional analogous gene products G. Donvito, A. Tulipano, G. P. Maggi, and A. Gisell
20.00-22.00	Social dinner at “I Giardini di Alice”

Wednesday, July 12, 2006 (at Is Morus Relais)

09.00-09.40	Invited lecture Grid-enabled life science applications: status and perspectives Vincent Breton, CNRS – IN2P3, Clermont-Ferrand, France
09.40-10.40	5 th Session GRID applications and perspectives in biomedical informatics <ul style="list-style-type: none"> • Clinical-Genomics data modelling using HL7 standards in GebbaLab project S. D’Ascia and G. Frangiamone • A Grid Approach for Large Data Processing in Biomedicine M. Fato, A. Papadimitropoulos, I. Porro, S. Scaglione, A. Schenone, L. Torterolo and F. Viti • ImmunoGrid - The virtual human immune system project A. Emerson and E. Rossi
10.40-11.20	Invited lecture Grid-enabled Hight Throughput <i>in-silico</i> Screening Against Influenza A Neuraminidase. Hurng-Chun Lee, Academia Sinica, Taipei, Taiwan
11.20-11.40	Coffee break

11.40-13.00	<p>Final Session</p> <p>Perspectives of GRID applications in biomedical research Panel discussion with all invited speakers</p> <p>Presentation of NETTAB 2007 Workshop</p> <p>The SeaLife project A. Burger, Heriot-Watt University, Edinburgh, Scotland, United Kingdom</p> <p>Farewell</p>
13.00-14.00	Lunch
14.30-18.30	Boat tour

Thursday, July 13, 2006 (at POLARIS Science and Technology Park of Sardinia)

09.30-11.20	<p>Tutorial 1A</p> <p>bioMOBY concept, architecture, central repository and related tools Martin Senger, IRRI, Manila, Philippines</p> <p>Tutorial 1B</p> <p>GRID Tools and infrastructures Roberto Barbera, University of Catania and INFN, Italy and Giorgio P. Maggi, INFN Bari, Italy</p> <ul style="list-style-type: none"> • Introduction to EGEE • Authorisation & Authentication
11.20-11.40	Coffee break
11.40-13.30	<p>Tutorial 2A</p> <p>Agents in bioGRID computing Emanuela Merelli, DMI, University of Camerino, Italy</p> <p>Tutorial 2B</p> <p>GRID Tools and infrastructures Roberto Barbera, University of Catania and INFN, Italy and Giorgio P. Maggi, INFN Bari, Italy</p> <ul style="list-style-type: none"> • Information System • Workload Management System • Data Management
13.30-14.30	Lunch
14.30-15.15	Meeting with representatives of research groups of POLARIS Science and Technology Park of Sardinia
15.15-15.30	Coffee break
15.30-17.20	<p>Tutorial 3B</p> <p>HPC infrastructures Claudio Arlandini, CILEA, segrate, Italy and Pierfrancesco Zuccato, Exadron-Eurotech, Amaro, Italy</p> <p>Tutorial 3A</p> <p>New bioinformatics applications based on Web Services technologies and GRID computing Tiziana Castrignanò, CASPUR, Rome, Italy</p>