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Conference Program

Programme of the 7th International Symposium on Biological & Medical Data Analysis (ISBMDA2006)

Time Schedule	December 7, 2006
09:00	Opening and Welcome <i>Chair: N. Maglaveras</i>
	Keynote Session I
09:15-11:00	<i>Chair: N. Maglaveras</i>
	The pathway to the Virtual Physiological Human (VPH): The STEP experience <i>Dr. Marco Viceconti</i>
	Creating synergies between bioinformatics and medical informatics : The SYMBIOMATICS approach <i>Prof. Ioannis Tollis, Dr. Fernando Martin-Sanchez</i>
	Association Studies and Medical Inferencing: The case of ASSIST <i>Prof. Pericles A. Mitkas</i>
11:00-11:30	Coffee Break
	Session 1: Bioinformatics: Functional Genomics
11:30-13:00	<i>Chair: V. Maojo</i>
	HLA and HIV Infection Progression: Application of the Minimum Description Length Principle to Statistical Genetics <i>Peter T. Hraber, Bette T. Korber, Steven Wolinsky, Henry A. Erlich, Elizabeth A. Trachtenberg, and Thomas B. Kepler</i>
	Visualization of functional aspects of microRNA regulatory networks using the Gene Ontology <i>Alkiviadis Symeonidis, Ioannis G. Tollis, and Martin Reczko</i>
	A novel method for classifying subfamilies and sub-subfamilies of G-protein coupled receptors <i>Majid Beigi and Andreas Zell</i>
	Integration Analysis of Diverse Genomic data using Multi-clustering Results <i>Hye-Sung Yoon, Sang-Ho Lee, Sung-Bum Cho, and Ju Han Kim</i>
13:00-14:00	Lunch
	Session 2: Bioinformatics: Sequence and Structure Analysis
14:00-15:30	<i>Chair: S. Kouidou</i>
	SPSO: Synthetic Protein Sequence Oversampling for imbalanced protein data <i>Majid Beigi and Andreas Zell</i>
	Effectivity of Internal Validation Techniques for Gene Clustering

	<i>Chunmei Yang, Baikun Wan, and Xiaofeng Gao</i>
	Intrinsic splicing profile of human genes undergoing simple cassette exon events <i>Andigoni Malousi, Vassilis Koutkias, Sofia Kouidou, and Nicos Maglaveras</i>
	Non-repetitive DNA sequence compression using Memoization <i>Srinivasa K. G., Jagadish M., Venugopal K. R., and Patnaik L. M.</i>
15:30-16:00	Coffee Break
16:00-17:30	Session 3: Biomedical Data Analysis and Interpretation <i>Chair: A. Bezerianos</i>
	The use of multivariate autoregressive modelling for analyzing dynamical physiological responses of individual critically ill patients <i>Kristien Van Loon, Jean-Marie Aerts, Geert Meyfroidt, Greta Van den Berghe, and Daniel Berckmans</i>
	Time Series Feature Evaluation in Discriminating Preictal EEG States <i>Dimitris Kugiumztis, Angeliki Pavana, Alkiviadis Tsimpiris, Ioannis Vlachos, and Pal G. Larsson</i>
	A fully Bayesian two-stage model for detecting brain activity in fMRI <i>Alicia Quiros Carretero, Raquel Montes Diez, and Juan A. Hernandez</i>
	Supervised Neuro-Fuzzy Clustering for Life Science Applications <i>Jurgen Paetz</i>
17:30-18:00	Coffee Break
18:00-20:00	Poster Session
	Generalization Rules for Binarized Descriptors <i>Juergen Paetz</i>
	Application of Combining Classifiers Using Dynamic Weights to the Protein Secondary Structure Prediction - Comparative Analysis of Fusion Methods <i>Tomasz Woloszynski and Marek Kurzynski</i>
	A Novel Data Mining Approach for the Accurate Prediction of Translation Initiation Sites <i>George Tzanis, Christos Berberidis, and Ioannis Vlahavas</i>
	Searching and Visualizing Brain Networks in Schizophrenia <i>Theofanis Oikonomou, Vangelis Sakkalis, Ioannis G. Tollis, and Sifis Micheloyannis</i>
	Web Services Interface to Run Protein Sequence Tools on Grid, Testcase of Protein Sequence Alignment <i>Christophe Blanchet, Christophe Combet, Vladimir Daric, and Gilbert Deleage</i>
	Language Modelling for the Needs of OCR of Medical Texts <i>Maciej Piasecki and Grzegorz Godlewski</i>
	Symbol Extraction Method and Symbolic Distance for Analysing Medical Time Series <i>Fernando Alonso, Loic Martinez, Aurora Perez, Agustin Santamaria, and Juan Pedro Valente</i>

	<p>A Wavelet Tool to Discriminate Imagery Versus Actual Finger Movements Towards a Brain - Computer Interface</p> <p><i>Maria L. Stavrinou, Liviu Moraru, Polyxeni Pelekouda, Vasileios Kokkinos, and Anastasios Bezerianos</i></p>
	<p>A Novel Algorithm for Segmentation of Lung Images</p> <p><i>Aamir Saeed Malik and Tae-Sun Choi</i></p>
	<p>An Evaluation of Image Compression Algorithms for Colour Retinal Images</p> <p><i>Gerald Schaefer and Roman Starosolski</i></p>
	<p>An Automated Model for Rapid and Reliable Segmentation of Intravascular Ultrasound Images</p> <p><i>Eirini Parissi, Yiannis Kompatsiaris, Yiannis S. Chatzizisis, Vassilis Koutkias, Nicos Maglaveras, M.G. Strintzis, and George D. Giannoglou</i></p>
	<p>Two-Stage Classifier for Diagnosis of Hypertension Type</p> <p><i>Michal Wozniak</i></p>
	<p>Application of Rough Sets Theory to the Sequential Diagnosis</p> <p><i>Andrzej Zolnierak</i></p>
	<p>Data Integration in Multi-Dimensional Data Sets: Informational Asymmetry in the Valid Correlation of Subdivided Samples</p> <p><i>Qing T. Zeng, Juan Pablo Pratt, Jane Pak, Eun-Young Kim, Dino Ravnic, Harold Huss, and Steven J. Mentzer</i></p>
	<p>Modeling for Missing Tissue Compensator Fabrication Using RFID Tag in U-Health</p> <p><i>O-Hoon Choi, Jung-Eun Lim, Hong-Seok Na, and Doo-Kwon Baik</i></p>
	<p>The Effect of User Factors on Consumer Familiarity with Health Terms: Using Gender as a Proxy for Background Knowledge about Gender-Specific Illnesses</p> <p><i>Alla Keselman, Lisa Massengale, Long Ngo, Allen Browne, and Qing Zeng</i></p>
	<p>ICT for Patient Safety: Towards a European Research Roadmap</p> <p><i>Veli N. Stroetmann, Daniel Spichtinger, Karl A. Stroetmann, and Jean Pierre Thierry</i></p>
21:30	Symposium Dinner

Time Schedule	December 8, 2006
09:00-11:00	Keynote Session II Chair: N. Maglaveras & C. Zamboulis
	<p>The nanomedicine platform in the FP7</p> <p><i>Prof. Kostas Kyparissides</i></p>
	<p>eHealth research activities in FP7: supporting the transformation of healthcare delivery systems</p> <p><i>Dr. Loukianos Gatzoulis</i></p>
	<p>The pathway to the European future research : From the European Science Foundation (ESF) to the European Research Council (ERC)</p> <p><i>Prof. Chrysanthos Zamboulis</i></p>
11:00-11:30	Coffee Break

11:30-13:00	Session 4: Biomedical Models Chair: R. Brause
	Markov Modeling of Conformational Kinetics of Cardiac Ion Channel Proteins <i>Chong Wang, Antje Krause, Chris Nugent, and Werner Dubitzky</i>
	Insulin sensitivity and plasma glucose appearance profile by oral minimal model in normotensive and normoglycemic humans <i>Roberto Burattini, Fabrizio Casagrande, Francesco Di Nardo, Massimo Boemi, and Pierpaolo Morosini</i>
	Dynamic Model of Amino Acid and Carbohydrate Metabolism in Primary Human Liver Cells <i>Reinhard Guthke, Wolfgang Schmidt-Heck, Gesine Pless, Rolf Gebhardt, Michael Pfaff, Joerg C. Gerlach, and Katrin Zeilinger</i>
	The probabilities mixture model for clustering flow-cytometric data: an application to gating lymphocytes in peripheral blood <i>John Lakoumentas, John Drakos, Marina Karakantza, Nicolaos Zoumbos, George Nikiforidis, and George Sakellaropoulos</i>
	Integrative mathematical modeling for analysis of microcirculatory function <i>Adam Kapela, Anastasios Bezerianos, and Nikolaos Tsoukias</i>
13:00-14:00	Lunch
14:00-15:00	Session 5: Semantics and Information Modeling Chair: V. Koutkias
	Integrating Clinical and Genomic Information through the PrognoChip Mediator <i>Anastasia Analyti, Haridimos Kondylakis, Dimitris Manakanatas, Manos Kalaitzakis, Dimitris Plexousakis, and George Potamias</i>
	OntoDataClean: Ontology-based Integration and Preprocessing of Distributed Data <i>David Perez-Rey, Alberto Anguita, and Jose Crespo</i>
	Thinking Precedes Action: Using Software Engineering for the Development of a Terminology Database to Improve Access to Biomedical Documentation <i>Antonio Vaquero, Fernando Saenz, Francisco Alvarez, and Manuel de Buenaga</i>
15:00-16:30	Session 6: Databases and Grids Chair: I. Chouvarda
	TRENCADIS-A Grid Architecture for Creating Virtual Repositories of DICOM Objects in an OGSA-based Ontological Framework <i>Ignacio Blanquer, Vicente Hernandez, and Damiya Segrelles</i>
	Minimizing Data Size for Efficient Data Reuse in Grid-enabled Medical Applications <i>Fumihiko Ino, Katsunori Matsuo, Yasuharu Mizutani, and Kenichi Hagihara</i>
	Grid-based Knowledge Discovery in Clinico-Genomic Data <i>Michael May, George Potamias, and Stefan Ruting</i>
	A prospective study on the integration of microarray data in HIS/EPR <i>Daniel F. Polonia, Joel Arrais, and Jose Luis Oliveira</i>
16:30-17:00	Coffee Break
	Session 7: Decision Support & Diagnostic Systems
17:00-18:00	Chair: P.Bamidis

	Handwriting Analysis for Diagnosis and Prognosis of Parkinson's Disease <i>Atilla Unlu, Rudiger Brause, and Karsten Krakow</i>
	A Decision Support System for the Automatic Assessment of Hip Osteoarthritis Severity by Hip Joint Space Contour Spectral Analysis <i>Ioannis Boniatis, Dionisis Cavouras, Lena Costaridou, Ioannis Kalatzis, Elias Panagiotopoulos, and George Panayiotakis</i>
	Study on Preprocessing and Classifying Mass Spectral Raw Data Concerning Human Normal and Disease Cases <i>Xenofon E. Floros, George M. Spyrou, Konstantinos N. Vougas, George T. Tsangaris, and Konstantina S. Nikita</i>
18:30-20:00	Session 8: INFOBIOMED NoE Session Chair: V. Maojo
20:00	Symposium Closing

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