

PCI 2008 12th Pan-Hellenic Conference on Informatics

August 28 – 30, Doryssa Seaside Resort, Samos Island, Greece

www.aegean.gr/PCI2008

Thursday August 28, 2008

08:00 - 09:30 **Registration (Room: Sivilla)**

09:30 - 09:45 **Welcome (Room: Sivilla)**

- PCI 2008 General Chairs: Sokratis Katsikas (University of Piraeus), and Christos Douligeris (Greek Computer Society, University of Piraeus, and IDIKA S.A.)
- President of the Greek Computer Society: Nestor Ioannidis
- PCI 2008 PC Chairs: Stefanos Gritzalis (University of the Aegean), Dimitris Plexousakis (University of Crete), and Dionysios Pnevmatikatos (Technical University of Crete)

09:45 - 10:15 **Invited Talk (Room: Sivilla)**

Chair: Sokratis Katsikas

Prof. Dimosthenis Anagnostopoulos, Secretary General, Ministry of Economy and Finance
TBA

10:15 - 11:35 **Session 1 (Room: Sivilla)**

Chair: Christos Douligeris

- *Power Control in WLANs for Optimization of Social Fairness*, V. Douros, P. Frangoudis, K. Katsaros, and G. Polyzos
- *Real-time Collection of Electromagnetic Field Measurements Using a Metropolitan Wireless Mesh Network*, N. Petroulakis, and V. Siris
- *A BBN Based Approach for Improving a Telecommunication Software Estimation Process*, S. Bibi, I. Stamelos, G. Gerolimos, and V. Kollias
- *Development of Wireless Embedded System Using ZigBEE Protocol to Avoid White Gaussian Noise and 50 Hz Power Line Noise in ECG and Pressure Blood Signals*, K. Kalovrektis, T. Ganetsos, E. Fountas, and G. Tzitzili

11:35 - 11:50 **Coffee/Refreshments**

11:50 - 13:10 **Session 2 (Room: Sivilla)**

Chair: Dimitris Plexousakis

- *Continuous Top-k Dominating Queries in Subspaces*, M. Kontaki, A. Papadopoulos, and Y. Manolopoulos
- *Cost Models and Efficient Algorithms on Existentially Uncertain Spatial Data*, E. Frentzos, N. Pelekis, and Y. Theodoridis
- *MITOS: Design and Evaluation of a DBMS-based Web Search Engine*, P. Papadakis, Y. Theoharis, Y. Marketakis, N. Armenatzoglou, and Y. Tzitzikas
- *A Comparison of Centralized and Distributed Information Retrieval Approaches*, G. Paltoglou, M. Salamasis, and M. Satratzemi

13:15 - 14:45 Lunch

14:45 - 16:05 **Session 3 (Room: Sivilla)**

Chair: Stefanos Gritzalis

- *Towards Privacy in Personal Data Management*, P. Efraimidis, G. Drosatos, F. Nalbadis, and A. Tasidou
- *P2P Reputation Systems Credibility Analysis: Tradeoffs and Design Decisions*, E. Koutrouli, and A. Tsalgatidou
- *Intrusion Detection Using Evolutionary Neural Networks*, E. Michailidis, S. Katsikas, and E. Georgopoulos
- *Middleware Challenges for Distributed Next Generation Experimental Infrastructures*, G. Kormentzas

16:05 - 16:20 Coffee/Refreshments

16:20 - 18:00 **Invited Session 1: Web Science Research Initiative (Room: Sivilla)**

Chairs: Michalis Vafopoulos – Sokratis Katsikas

- *Web science*, M. Vafopoulos, and M. Kenteris
- *Web science Mathematics*, D. Samaroudis, and I. Antoniou
- *Cultural Informatics in Web science: A case of exploiting local cultural content*, M. Kenteris, M. Vafopoulos, and D. Gavalas
- *Virtualization: A new paradigm for social sciences*, K. Koskinas
- *Foundations of Economics and Web science*, S. Kontogiannis, and P. Spirakis
- *Living in the Web: Mixed Reality Intelligent Spaces*, L. Polymenakos

Friday August 29, 2008

9:30 - 10:50 **Session 4 (Room: Sivilla)**

Chair: Yannis Manolopoulos

- *Applying Machine Learning to Extract New Knowledge in Precision Agriculture Applications*, S. Dimitriadis, and C. Gounopoulos
- *Effective Ranking Fusion Methods for Personalized Metasearch Engines*, L. Akritidis, D. Katsaros, and P. Bozaris
- *Site-Specific versus General Purpose Web Search Engines: A Comparative Evaluation*, G. Atsaros, D. Spinellis, and P. Louridas
- *User Interface Personalization for the Web Using Adaptive Browsing Shortcuts*, M. Salampasis, C. Kouroupetroglou, and C. Delistavrou

9:30 - 10:50 **Session 5 (Room: Theano)**

Chair: Ioannis Voyiatzis

- *A Prototype System for Educational Data Warehousing and Mining*, N. Dimokas, N. Mittas, A. Nanopoulos, and L. Angelis
- *Local Grading of Learners*, S. Kotsiantis

- *The Asynchronous Distance Education by means of Internet: Factors that Influence its Effectiveness. The Case of Hellenic Open University*, K. Patriarcheas, and M. Xenos
- *Learning Software Project Management on the Web: The Impact of Question Prompts*, P. Papadopoulos, S. Demetriadis, I. Stamelos, and I. Tsoukalas

10:50 - 11:05 Coffee/Refreshments

11:05 - 11:35 **Invited Talk (Room: Sivilla)**

Chair: Christos Douligeris

Prof. John S. Baras, Dept. of Electrical and Computer Engineering and the Institute for Systems Research, University of Maryland, USA

Trust in Social, Economic, Communication and Web-based Networks

11:35 – 13:15 **Invited Session 2 (Room: Sivilla)**

Chair: Stefanos Gritzalis

- *The Power of Music: Searching for Power-Laws in Symbolic Musical Data*, D. Rafailidis, and Y. Manolopoulos
- *The Design, Implementation and Evaluation of an Internet-based eVoting System*, C. Manolopoulos, A. Panagiotaki, D. Sofotasios, P. Spirakis, and Y. Stamatiou
- *Grid-enabled Chemoinformatics: LysTAS and TRBD*, V. Tatsis, K. D. Dimakopoulos, O. Kiropoulou, D. G. Papageorgiou, and I. N. Demetropoulos
- *A Telemedicine Platform for Emergency Event Monitoring in Isolated Areas of North Aegean Region*, C. Doukas, I. Maglogiannis, M. Haritou, A. Tagaris, K. Perakis, A. Androurlidakis, and I. Anagnostopoulos
- *Evaluating Greek Departments of Computer Science & Engineering using Bibliometric Indices*, D. Katsaros, V. Matsoukas, and Y. Manolopoulos

13:15 - 14:45 Lunch

14:45 - 16:05 **Session 6 (Room: Sivilla)**

Chair: TBA

- *Resource Discovery in a Grid System based on Matchmaking-Routers*, K. Karaoglanoglou and H. Karatza
- *QoS-based Decision Services in Grids*, D. Kyriazis, P. Hasselmeyer, K. Tserpes, A. Menychtas, and T. Varvarigou
- *A Systematic Approach for the Design of RFID Implementations in the Supply Chain*, C. Bardaki, A. Karagiannaki, and K. Pramataris
- *A Cellular Automation Collision-Free Path Planner Suitable for Cooperative Robots*, K. Ioannidis, G. Sirakoulis, and I. Andreadis

14:45 - 16:05 **Session 7 (Room: Theano)**

Chair: TBA

- *Java Performance Evaluation Using External Instrumentation*, G. Gousios, and D. Spinellis
- *Design and Implementation Aspects of a Novel Java P2P Simulator with GUI*, V. Chryssikopoulos, G. Papaloukopoulos, E. Sakkopoulos, and S. Sioutas

- *Performance Evaluation of Multiple Approximate String Matching Algorithms Implemented with MPI Paradigm in an Experimental Cluster Environment*, P. Michailidis, and K. Margaritis
- *ERP Systems Business Value: A Critical Review of Empirical Literature*, F. Michailidou, A. M. Sergi, and E. Loukis

16:05 - 16:20 Coffee/Refreshments

16:20 - 17:40 **Session 8 (Room: Sivilla)**

Chair: TBA

- *Hardware Acceleration for 3D Image Reconstruction*, D. Chaikalis, G. Passalis, N. Sgouros, D. Maroulis, and T. Theoharis
- *Computer-aided Malignancy Risk Assessment of Nodules in Thyroid US Images Utilizing Boundary Descriptor*, M. Savelonas, D. Maroulis, D. Iakovidis, and N. Dimitropoulos
- *Obstacle Detection from Uncalibrated Cameras*, N. Baha Touzene, and S. Larabi
- *Design and Simulation of NAND Gates made of Single Electron Devices*, T. Tsiolakis, G. Alexiou, and N. Konofaos

16:20 - 17:40 **Session 9 (Room: Theano)**

Chair: TBA

- *Knowledge Exploitation through Modeling, Navigation and Querying, an Ontology-based Integrated Application*, G. Kourlimpinis, G. Gyftodimos, J. Psarras, and D. Askounis
- *Graphical Representation as a Factor of 3D Software User Satisfaction: A Metric Based Approach*, A. Ampatzoglou, A. Chatzigeorgiou, and I. Stamelos
- *A Multi-Platform Framework for Distributed Computing*, M. Grivas, and D. Kehagias
- *A Design Flow for the Precise Identification of the Worst-Case Voltage Drop in Power Grid Analyses*, D. Karampatzakis, M. Tsiampas, N. Evmorfopoulos, and G. I. Stamoulis

20:30 – 23:00 Gala Dinner

Saturday August 30, 2008

9:30 - 11:10 **Session 10 (Room: Sivilla)**

Chair: TBA

- *Delineating the Degree of "Pervasiveness" in Pervasive Information Systems: An Assessment Framework and Design Implications*, P. Kourouthanassis, G. Giaglis, and D. Karaiskos
- *The Greek Electronic Government Interoperability Framework: Standards and Infrastructures for One-Stop Service Provision*, Y. Charalabidis, F. Lampathaki, D. Sarantis, A. M. Sourouni, S. Mouzakitidis, G. Gionis, S. Koussouris, C. Ntanos, C. Tsiakaliaris, V. Tountopoulos, and D. Askounis
- *The Intervening Role of BPR in the ICT – Business Performance Relationship*, E. Loukis, and K. Pazalos
- *Cognitive and Affective Antecedents of Mobile Data Services Usage Intention*, D. Karaiskos, D. Drosos, A. Tsiaousis, and G. Giaglis
- *Analysis and Synthesis of the Current Situation in IT Security*, C. Kalentis

9:30 - 11:10 Invited Session 3: Legal & Regulatory Issues in ICT (Room: Theano)

Chairs: C. Douligeris, N. Polemi

- *Copyright Protection against Software Piracy*, E. Alexandropoulou-Egyptiadou
- *Network information security and EU Law: a view over regulatory principles*, A. Mitrakas
- *Electronic e-government for Social Security in Greece*, C. Douligeris
- *Data protection in mobile, added value services*, Z. Kardasiadou

11:10 - 11:25 Coffee/Refreshments

11:25 - 11:45 Invited Talk (Room: Sivilla)

Chair: TBA

Vsevolod Ukrainsky, Microsoft Corp.: *Boosting Linpack Performance on Windows HPC Server 2008*

11:45 - 13:25 Session 11 (Room: Sivilla)

Chair: TBA

- *Improving the Efficiency of Exact Two Dimensional On-Line Pattern Matching Algorithms*, C. Kouzinopoulos, and K. Margaritis
- *A New algorithm for On-Line Multivariate ARMA Identification Using Multimodel Partitioning Theory*, S. Pappas, N. Harkiolakis, P. Karampelas, L. Ekonomou, and S. Katsikas
- *Stacking Cost Sensitive Models*, S. Kotsiantis
- *Formal Verification of Generalised State Machines*, G. Eleftherakis, and P. Kefalas
- *Simulator Implementation of an IF-ISAR System for Studies in Target Glint*, T. Kostis, K. Galanis, and S. Katsikas

13:25 Closing (Room: Sivilla)

Sokratis Katsikas, Christos Douligeris

Nestor Ioannidis: PCI 2009 Announcement