

PCI 2009 PROGRAMME

DAY 1 - Thursday September 10, 2009

16:00 - 17:00 Registration

Welcome (Lecture Room - 1)

- 17:00 - 17:15
- **PCI 2009 General Chairs:**
Vassilios Chrissikopoulos (Ionian University) and Nikolaos Alexandris (University of Piraeus)
 - **President of the Greek Computer Society:**
Nestor Ioannidis
 - **PCI 2009 PC Chairs:**
Christos Douligeris (University of Piraeus), Nikolaos Kanellopoulos (Ionian University).

17:15 - 17:45

Keynote I: "Emerging computational challenges in pervasive assistive environments"
Professor Fillia Makedon, Professor and Department Head of Computer Science and Engineering at the University of Texas at Arlington (UTA)
Chair: Christos Douligeris
Location: Lecture Room - 1

17:45 - 18:30 Coffee/Refreshments

~ Parallel Sessions 1 & 2 ~

18:30 - 20:30

Session 1: Algorithms and Theoretical Foundations I

Location: Lecture Room - 1

Chair: Panayiotis Vlamos

Session 2: Networking Data Management, AI and Data Mining I

Location: Lecture Room - 2

Chair: Spyros Sioutas

18:30 - 18:50

- **Fotis E. Psomopoulos and Pericles A. Mitkas** *Bioinformatics Algorithm Development for Grid Environments*

- **Alexis Papadimitriou, Dimitrios Katsaros and Yannis Manolopoulos** *Query Sensitive Storage for Wireless Sensor Networks*

18:50 - 19:10

- **Paparrizos K. Ioannis** *Homogeneous and Non Homogeneous Algorithms*

- **Ioannis Patiniotakis, Dimitris Apostolou and Gregoris Mentzas** *Applying a Linguistic Operator for Aggregating Movie Preferences*

19:10 - 19:30

- **Radu Nicolae Cristea** *Dynamic Decision Systems—A Fuzzy-Duopoly Approach*

- **Kostas Anagnostou and Manolis Maragoudakis** *Data Mining for Player Modeling in Videogames*

19:30 - 19:50

- **A. Samaras, G. Pangalos, C. Ilioudis, and I. Pagkalos** *Using Nature and Bio-inspired Technologies for Building Innovative Proactive Security Mechanisms*

- **Petros Lalos, Christos K. Datsikas and George S. Tombras** *A Framework for Community "Share Taxi" with the use of Hybrid Positioning Systems*

19:50 - 20:10	<ul style="list-style-type: none"> ▪ Charalampos S. Kouzinopoulos and Konstantinos G. Margaritis <i>String Matching on a Multicore GPU Using CUDA</i> 	<ul style="list-style-type: none"> ▪ Prodromos Chatziagorakis, Georgios Ch. Sirakoulis and John Lygouras <i>Automatic Generation of Cellular Neural Networks for Distributed Sensor Data Processing</i>
20:10 - 20:30	<ul style="list-style-type: none"> ▪ Theodore Andronikos, Michalis Stefanidakis, and Ioannis Papadakis <i>Adding Temporal Dimension to Ontologies via OWL Reification</i> 	<ul style="list-style-type: none"> ▪ Stylianos Drakatos, Christos Douligeris <i>Context Awareness and Prediction for Mobile and Ubiquitous Computing</i>
20:45	Welcome Reception: Snack and Wine, Concert Location: Ionian Academy	

DAY 2 - Friday September 11, 2009

~ Session 3 ~

Session 3: Web Engineering	
09:30 - 11:10	Location: Lecture Room - 1 Chair: Michalis Stefanidakis
09:30 - 09:50	<ul style="list-style-type: none"> ▪ Dimitris Panagiotou and Gregoris Mentzas <i>A Semantic Wiki for Software Development</i>
09:50 - 10:10	<ul style="list-style-type: none"> ▪ Sotirios Kontogiannis, Stavros Valsamidis, Pavlos Efraimidis and Alexandros Karakos <i>Probing based load balancing for web server farms</i>
10:10 - 10:30	<ul style="list-style-type: none"> ▪ Ioannis Karydis and Vasileios Laopodis <i>Web 2.0 Cultural Networking</i>
10:30 - 10:50	<ul style="list-style-type: none"> ▪ Evangelos V. Moutselakis and Alexandros S. Karakos <i>Semantic Web Multimedia Metadata Retrieval: A Music Approach</i>
10:50 - 11:10	<ul style="list-style-type: none"> ▪ Lampros C. Stavrogiannis and Pericles A. Mitkas <i>Software Agents in Multiple Adaptive Double Auction Markets</i>
11:10 - 12:00	Coffee/Refreshments
12:00 - 12:30	Keynote II: "As the Web evolves" Professor George Mytakides , University of Patras Chair: Christos Douligeris Location : Lecture Room - 1

~ *Parallel Sessions 4 & 5* ~

	<p>Session 4: Algorithms and Theoretical Foundations II</p> <p>Location: Lecture Room - 1</p> <p>Chair: Theodore Andronikos</p>	<p>Session 5: Networking Data Management, AI and Data Mining II</p> <p>Location: Lecture Room - 2</p> <p>Chair: Konstantinos Oikonomou</p>
12:30 - 14:30		
12:30 - 12:50	<ul style="list-style-type: none"> ▪ Nestor Ioannidis and Ioannis Voyiatzis <i>Embedding Test Patterns in Accumulator-Generated Sequences in $O(1)$ Time</i> 	<ul style="list-style-type: none"> ▪ I.E. Livieris, M.S. Apostolopoulou, D.G. Sotiropoulos, S. Sioutas, and P. Pintelas <i>Classification of Large Biomedical Data Using ANNs Based on BFGS Method</i>
12:50 - 13:10	<ul style="list-style-type: none"> ▪ Michael Resvanis and Ioannis Chatzigiannakis <i>Experimental Evaluation of Duplicate Insensitive Counting Algorithms</i> 	<ul style="list-style-type: none"> ▪ Panagiotis Gouvas and Gregoris Mentzas <i>BlueMesh – A protocol that facilitates P2P application development in Bluetooth-based Personal Area Networks</i>
13:10 - 13:30	<ul style="list-style-type: none"> ▪ I.E. Livieris, D.G. Sotiropoulos, and P. Pintelas <i>On Descent Spectral CG algorithm for Training Recurrent Neural Networks</i> 	<ul style="list-style-type: none"> ▪ M. Panagopoulos, P. Rousopoulos, D. Arabadjis, and C. Papaodysseus <i>Information System for Graphological Identification</i>
13:30 - 13:50	<ul style="list-style-type: none"> ▪ Eleni Fragkiadaki, Georgios Evangelidis, Nikolaos Samaras and Dimitris A. Dervos <i>Cascading Citations Indexing Framework Algorithm Implementation and Testing</i> 	<ul style="list-style-type: none"> ▪ Dimitrios Tsolis, Eleftherios Georgatos, and Spyros Sioutas <i>The Use of Peer-to-Peer Networks in Copyright Protection</i>
13:50 - 14:10	<ul style="list-style-type: none"> ▪ Elias Hadjikyriacou, Nikolaos Samaras and Konstantinos Margaritis <i>An Experimental Evaluation of a Parallel Genetic Algorithm Using MPI</i> 	<ul style="list-style-type: none"> ▪ Theodoros Iliou and Christos-Nikolaos Anagnostopoulos <i>Comparison of Different Classifiers for Emotion Recognition</i>
14:10 - 14:30	<ul style="list-style-type: none"> ▪ Markos I. Avlonitis, Adamantia G. Pateli and Ioannis A. Morfis <i>A Stochastic Model Using Self-Organization to Explore the ICT Industry Evolution</i> 	<ul style="list-style-type: none"> ▪ Ilias Kotinas, Dimitrios P. Lyras, Kyriakos Sgarbas and Nikos Fakotakis <i>A Tree-Based Approach for the Complementation of Logical Expressions</i>
14:30 - 16:00	Lunch break	

~ Session 6 ~

Session 6: Languages, Text and Speech Processing

16:00 - 17:00

Location: Lecture Room - 1

Chair: Katia Kermanidis

16:00 - 16:20

▪ **Vassilios Karakoidas and Diomidis Spinellis** *J%: Integrating Domain-Specific Languages with Java*

16:20 - 16:40

▪ **Iosif Mporas, Todor Ganchev, Theodoros Kostoulas, Katia Kermanidis and Nikos Fakotakis** *Automatic Speech Recognition System for Home Appliances Control*

16:40 - 17:00

▪ **Iosif Mporas, Alexandros Lazaridis, Todor Ganchev, and Nikos Fakotakis** *Using Hybrid HMM-Based Speech Segmentation to Improve Synthetic Speech Quality*

17:00 - 17:30

Coffee/Refreshments

~ Session 7 ~

Session 7: E-business, E-Health, E-Government

17:30 - 19:30

Location: Lecture Room - 1

Chair: Adamantia G. Pateli

17:30 - 17:50

▪ **Dimitrios Alexandrou, Fotis Xenikoudakis, and Gregoris Mentzas** *SEMPATH: Adapting Clinical Pathways by Utilizing Semantic Technologies*

17:50 - 18:10

▪ **Athanasios G. Ouzounis, Ioannis D. Zaharakis, and Achilles D. Kameas** *An Implementation of a Symbiotic Ecology with Self* Properties in an eHealth Scenario*

18:10 - 18:30

▪ **Babis Magoutas and Gregoris Mentzas** *Adaptive Evaluation of Portal Quality: An eGovernment Case*

18:30 - 18:50

▪ **Vasileios Vlachos and Vassilios Karakoidas** *Chaperone: a content filtering web proxy based on public health policies*

18:50 - 19:10

▪ **Panos Fitsilis, Leonidas Anthopoulos, and Vassilis Gerogiannis** *Assessment frameworks of e-government projects: a comparison*

19:10 - 19:30

▪ **Th. Katsanevas** *A modern computerized test for career choices for economists*

20:30 - 23:00

Gala Dinner (Taverna Trypas)

DAY 3 - Saturday September 12, 2009

Keynote III: "The Greek Information Society in Perspective"

09:30 - 10:00

Professor Vassilis Assimakopoulos, Special Secretariat for Digital Planning

Chair: Markos Avlonitis

Location : Lecture Room - 1

~ Parallel Sessions 8 & 9 ~

Session 8: Computer Networks

Session 9: Computer Security and Privacy

10:00 - 12:00

Location: Lecture Room - 1

Location: Lecture Room - 2

Chair: Konstantinos Chorianopoulos

Chair: Emmanouil Magkos

10:00 - 10:20

- **Leandros A. Maglaras and Dimitrios Katsaros** *New Metrics for Characterizing the Significance of Nodes in Wireless Networks via Path-Based Neighborhood Analysis*

- **Dimitris Mitropoulos and Diomidis Spinellis** *Securing e-voting against MITM attacks*

10:20 - 10:40

- **Nikos Giannopoulos, Christos Goumopoulos, and Achilles Kameas** *Design Guidelines for Building a Wireless Sensor Network for Environmental Monitoring*

- **Fotios Gogoulos, Anna Antonakopoulou, Aziz S. Mousas, Georgios V. Lioudakis, Dimitra I. Kaklamani, and Iakovos S. Venieris** *Privacy-Aware Passive Network Monitoring*

10:40 - 11:00

- **Dimitrios Makris, Georgios Xenakis, Giannis Gonianakis, and Alexandros Kaloxylos** *Implementation of a SIP Extension to Enable a More Efficient Communication Control*

- **Markos Avlonitis, Emmanouil Magkos, Michalis Stefanidakis, and Vassilis Chrissikopoulos** *A Novel Stochastic Approach for Modeling Random Scanning Worms*

11:00 - 11:20

- **Fotis T. Foukalas and George T. Karetsos** *A Study on the Performance of Adaptive Modulation and Cross-Layer Design in Cognitive Radio for Fading Channels*

- **Antonios Gouglidis and Ioannis Mavridis** *A Foundation for Defining Security Requirements in Grid Computing*

11:20 - 11:40

- **Konstantinos Oikonomou, Dimitrios Kogias, Leonidas Tzevelekas, and Ioannis Stavrakakis** *Investigation of Information Dissemination Design Criteria in Large-Scale Network Environments*

- **Christos Kalloniatis, Evangelia Kavakli, and Stefanos Gritzalis** *Methods for Designing Privacy Aware Information Systems: A Review*

11:40 - 12:00

- **Constantinos Patsakis and Nikolaos Alexandris** *Security implications of flawed shutdown policies*

12:00 - 12:30 Coffee/Refreshments

~ Session 10 ~

Session 10: Human Computer Interaction and Educational Software, Virtual Reality & Visualization I

12:30 - 14:30 **Location:** Lecture Room - 1

Chair: Katia Kermanidis

12:30 - 12:50 ▪ **Dimitrios Christopoulos and Athanasios Gaitatzes** *Multimodal Interfaces for Educational Virtual Environments*

12:50 - 13:10 ▪ **Spyridon Papaloukas, Kiriakos Patriarcheas, and Michalis Xenos** *Usability Assessment Heuristics in New Genre Videogames*

13:10 - 13:30 ▪ **Nektarios N. Kostaras and Michalis N. Xenos** *Assessing the Usability of Augmented Reality Systems*

13:30 - 13:50 ▪ **Maria Keskenidou, LEMONIA Koskinidou and Apostolos Ampatzoglou** *A Controlled Experiment on Children Learning Experience Through Computer Games*

13:50 - 14:10 ▪ **Domna Banakou, Konstantinos Chorianopoulos, and Kostas Anagnostou** *Avatars' Appearance and Social Behavior in Online Virtual Worlds*

14:10 - 14:30 ▪ **Charalambos Koutsourelakis and Konstantinos Chorianopoulos** *Comparative Usability and Semantic Legibility of Icons in Mobile Phones*

14:30 - 16:00 **Lunch break**

~ Session 11 ~

Session 11: Human Computer Interaction and Educational Software - Virtual Reality & Visualization II

16:00 - 17:00 **Location:** Lecture Room - 1

Chair: Spyros Sioutas

16:00 - 16:20 ▪ **Konstantinos Christidis, Niki Papailiou, Gregoris Mentzas, and Dimitris Apostolou,** *Exploring Gadget-based Interfaces for the Social Semantic Desktop*

16:20 - 16:40 ▪ **Vlachos Panagiotis and Ioannis Karafyllidis,** *Quantum Game Simulator, Using the Circuit Model of Quantum*

16:40 - 17:00 ▪ **Christos Katsanos, Athanasios Tsakoumis, and Nikolaos Avouris** *Web Accessibility: Design of an Educational System to Support Guidelines Learning*

Closing

17:00 **Location:** Lecture Room - 1

▪ Vassilios Chrissikopoulos

▪ Nikolaos Alexandris

▪ Nestor Ioannidis: PCI 2010 Announcement