

PCI 2012 Preliminary Technical Program

Friday, 5 October 2012

12:00 Registration Opens		
14:00 – 14:15 Opening – Welcome <i>Conference Hall (ground floor)</i>		
14:30 – 16:00	14:30 – 16:00	14:30 – 16:00
Session 1A: Research Projects Results Chair: Nineta Polemi <i>Conference Hall (ground floor)</i>	Session 1B: Main Track - e-Services and Empirical Studies Chair(s): TBA <i>Lecture Room TBA</i>	Session 1C: Main Track - e-Services and Empirical Studies Chair(s): TBA <i>Lecture Room TBA</i>
	Human Mobility Trace Acquisition and Social Interactions Monitoring for Business Intelligence using Smartphones <i>Athanasios Antoniou, Evangelos Theodoridis, Ioannis Chatzigiannakis, Georgios Mylonas</i>	Busfinder: a personalized multimodal transportation guide with dynamic routing <i>Dimitris Tsolkas, Nikos Passas, Christos Xenakis, Vassilis Papataxiarhis, Vassileios Tsetsos</i>
	Semantic driven location services in the Web of Data <i>Vasilios Gongolidis, Maria Kommata, Agis Papantoniou, Vassilis Loumos</i>	An Empirical Investigation of the Effect of Hard and Soft ICT Investment on Innovation Performance of Greek Firms <i>Euripidis Loukis, Spyros Arvanitis, Vasiliki Diamantopoulou</i>
	Augmented audio reality mobile application specially designed for visually impaired people <i>Dimitrios Soukaras, Ioannis Chaniotis, Ioannis Karagiannis, Ilianna Stampoglou, Christianna Triantafyllou, Nikolaos Tselikas, Ioannis Foukarakis, Anthony Boukouvalas</i>	A Methodology for Evaluating PSI e-Infrastructures Based on Multiple Value Models <i>Charalampos Alexopoulos, Euripides Loukis, Yannis Charalabidis, Iraklis Tagkopoulos</i>
	Artemis: Protection from Sexual Exploitation Attacks via SMS <i>Dimitrios Michalopoulos, Eustathios Papadopoulos, Ioannis Mavridis</i>	Technological characteristics and tools for web media companies in Greece <i>Nikos Antonopoulos, Andreas Veglis</i>
16:00 – 16:30 Coffee Break		
16:45 – 17:45 Invited Talk Chair: Christos Douligeris <i>Conference Hall (ground floor)</i> <i>Professor Vassilis Tsaoussidis</i> <i>Department of Electrical and Computer Engineering of Democritus University of Thrace</i>		

Friday, 5 October 2012

18:00 – 19:00	18:00 – 19:00	18:00 – 19:00
Session 2A: Research Projects Results Chair: Nineta Polemi <i>Conference Hall (ground floor)</i>	Session 2B: Main Track - Knowledge Discovery and Representation Chair(s): TBA <i>Lecture Room TBA</i>	Session 2C: Main Track - Custom Architectures - VLSI Chair(s): TBA <i>Lecture Room TBA</i>
	Co-authorship networks in academic research communities: the role of network strength <i>Anastasios Tsolakidis, Cleo Sgouropoulou, Effie Papageorgiou, Olivier Terraz, Georgios Miaoulis</i>	Acceleration of image processing algorithms using minimal resources of custom reconfigurable hardware <i>John Vourvoulakis, John Lygouras, John Kalomiros</i>
	A Fuzzy Cognitive Map for Identifying User Satisfaction from Smartphones <i>Vassilis Gerogiannis, Sotiria Papadopoulou, Elpiniki Papageorgiou</i>	Test Set Embedding Into Low-power BIST Sequences using Maximum Bipartite MatrchingI. <i>Voyiatzis, K. Axiotis, N. Papaspyrou, H. Antonopoulou, C. Efstathiou</i>
	Semantic Categorization of Web Services based on Feature Space Transformation <i>Efthimia Mavridou, George Hassapis, Dionisis D. Kehagias, Dimitrios Tzovaras</i>	ESL as a Gateway from OpenCL to FPGAs: Basic Ideas and Methodology Evaluation <i>George Economakos</i>

Saturday, 6 October 2012

09:15 – 09:55	09:15 – 11.00	09:15 – 09:55
Session 3A: Main Track - Databases and Data Processing Chair(s): TBA <i>Conference Hall (ground floor)</i>	Session 3B: Main Track - Numerical and Scientific Computations Chair(s): TBA <i>Lecture Room 106</i>	Session 3C: Main Track - Virtual Environments - Cloud Computing Chair(s): TBA <i>Lecture Room 107</i>
The Deletion Operation in xBR-Trees <i>George Roumelis, Michael Vassilakopoulos, Antonio Corral</i>	A Linear Algebra Approach to C-means Clustering using GPUs and MPI <i>Apostolos Glenis, Vu Pham</i>	Towards a Methodology for Integrating Physics Engines with Virtual Environments <i>George Anastassakis, Themis Panayiotopoulos, Gerasimos Raptis</i>
TENSORSPLAT: Spotting Latent Anomalies in Time <i>Danai Koutra, Evangelos Papalexakis, Christos Faloutsos</i>	A note on the comparison of a class of preconditioned iterative methods <i>George Gravvanis, Christos Filelis-papadopoulos, Elias Lipitakis</i>	Parallel Job Scheduling on a Dynamic Cloud Model with Variable Workload and Active Balancing <i>Ioannis A. Moschakis, Helen Karatza</i>
10:00- 10:45	On the algebraic multigrid method based on generic approximate banded inverses <i>Paschalis Matskanidis, George Gravvanis</i>	10:00 - 11.00
Session 3D: Main Track - Algorithms and Data Structures Chair(s): TBA <i>Conference Hall (ground floor)</i>		Session 3E: Main Track - Information Privacy Chair(s): TBA <i>Lecture Room 107</i>
Fast and Accurate k-Nearest Neighbor Classification by using Prototype Selection by Clustering <i>Stefanos Ougiaroglou, Georgios Evangelidis</i>	Implementing Basic Computational Kernels of Linear Algebra on Multicore <i>Panagiotis Michailidis, Konstantinos Margaritis</i>	An Analysis of Privacy-related Strategic Choices of Buyers and Sellers in e-Commerce Transactions <i>Spyros Kokolakis, Kalliopi Anastasopoulou, Maria Karyda</i>
Parallel Implementation of the Slope One Algorithm for Collaborative Filtering <i>Efthalia Karydi, Konstantinos Margaritis</i>	On the Numerical Modeling and Solution of a Time Harmonic 3D Wave Equation by Explicit Approximate Inverse Preconditioning <i>Athanasia Karamouta, Christos Filelis-papadopoulos, George Gravvanis, Michael Chryssomallis</i>	Privacy and Traceability in Social Networking Sites <i>Efthymios Lalas, Anastasios Papatthasiou, Costas Lambrinouidakis</i>
		Towards privacy-aware target advertising <i>Aristidis P. Athanasiou, Charalampos N. Raftopoulos, Eleftherios D. Thanos, Georgios V. Kritharellis, Nikolaos D. Tselikas, Ioannis E. Foukarakis, Anthony C. Boucouvalas</i>
11:00 – 11:30 Coffee Break		

Saturday, 6 October 2012

11:30 – 12:30	11:30 – 13:00	11:30 – 13:00
<p>Session 4A: Special Session - Quality in Education Technologies (QET) 2012 Chairs: Michalis Xenos and Kiriakos Patriarcheas</p> <p><i>Conference Hall (ground floor)</i></p>	<p>Session 4B: Main Track - Information Systems and Software Security Chair(s): TBA</p> <p><i>Lecture Room 106</i></p>	<p>Session 4C: Special Session - Performance Analysis of Computer and Communication Networks (PACoNet) Chairs: Athanassios Iossifides, Periklis Chatzimisios</p> <p><i>Lecture Room 107</i></p>
<p>Applying Learning Analytics in an Open Personal Learning Environment, a quantitative approach</p> <p><i>Eleni Koulocheri, Alexandros Soumplis, Michalis Xenos</i></p>	<p>Disaster Recovery Analysis and Management Method (DRAMM): an IT management tool</p> <p><i>George Aggelinos, Sokratis Katsikas</i></p>	<p>Congestion Avoidance in Wireless Sensor Networks: a Survey</p> <p><i>Stelios E. Ploumis, Aggeliki Sgora, Dionisis Kandris, Dimitrios D. Vergados</i></p>
<p>Measuring and mining LMS data</p> <p><i>Ioannis Kazanidis, Stavros Valsamidis, Sotirios Kontogiannis, Alexandros Karakos</i></p>	<p>Using Strand Space Model to Verify the Privacy Properties of a Fair Anonymous Authentication Scheme</p> <p><i>Nikolaos Petrakos, Panayiotis Kotzanikolaou, Christos Douligeris</i></p>	<p>An Adaptive Video Transmission Algorithm to improve Quality of Experience over LTE Access Networks</p> <p><i>Dimitrios J Vergados, Angelos Michalas, Aggeliki Sgora, Dimitrios D Vergados</i></p>
<p>Perceived Usability Evaluation of Learning Management Systems: A First Step towards Standardization of the System Usability Scale in Greek</p> <p><i>Christos Katsanos, Nikolaos Tselios, Michalis Xenos</i></p>	<p>A Stegosystem with advanced security features - Simulated in Matlab</p> <p><i>Antonios Andreatos, Apostolos Leros</i></p>	<p>A New Approach to Gradual Video Transition Detection</p> <p><i>Konstantinos Koumoussis, Vassilis Fotopoulos, Athanassios Skodras</i></p>
<p>12:40 - 13:00 Session 4D: Main Track - Transport Protocols</p> <p>Chair(s): TBA <i>Conference Hall (ground floor)</i></p>	<p>Measuring the Occurrence of Security-Related Bugs through Software Evolution</p> <p><i>Dimitris Mitropoulos, Georgios Gousios, Diomidis Spinellis</i></p>	<p>Performance Evaluation of 3D Stereo Video Streaming over IP Networks</p> <p><i>Athanasios Kordelas, Tasos Dagiuklas, Ilias Politis, Stavros Kotsopoulos</i></p>
<p>A Survey of Transport Protocols for Haptic Applications</p> <p><i>George Kokkonis, Kostas Psannis, Manos Roumeliotis, Sotirio Kontogiannis</i></p>		
<p>13:00 – 14:00 Invited Talk Chair: Yannis Theodoridis <i>Conference Hall (ground floor)</i></p> <p>Personalization in web search and data management <i>Professor Timos Sellis</i> <i>Research Center "Athena" and National Technical Univ. of Athens</i></p>		

Saturday, 6 October 2012

14:00 – 15:00 Lunch

	15:00 – 16:45	15:00 – 16:45
	Session 5A: Special Session - Embedded Hardware Design (EmHarDes) 2012 Chair(s): Georgios Sirakoulis, Ioannis Voyiatzis, Dimitrios Soudris <i>Lecture Room 106</i>	Session 5B: Special Session - Learning Technologies for Computer and Technology Education (Learn CompTech) 2012 Chair(s): Cleo Sgouropoulou, Christos Pierrakeas <i>Lecture Room 107</i>
	Cellular Automata on FPGAs for Image Processing <i>Ioannis Katis and Georgios Ch. Sirakoulis</i>	Integration of a System for discussions study in Text-Based Computer-Mediated Communication <i>Kiriakos Patriarcheas, Michalis Xenos</i>
	WDM switching module based on active microring resonators: applications to metro networks <i>Hercules Simos, Adonis Bogris, Nikos Raptis, and Dimitris Syvridis</i>	Multilingual Educational Repositories: Breaking Down the Language Barrier <i>Anastasios Koutoumanos, Vassilis Protonotarios</i>
	A Forest Fire Detection System: The Meleager Approach <i>Vassileios Tsetsos, Odysseas Sekkas, George Tsoublekas, Stathes Hadjiejthymiades, Evangelos Zervas</i>	An Ontology-based Approach in Learning Programming Languages <i>Christos Pierrakeas, Georgia Solomou, Achilles Kameas</i>
	On the use of Optimal Stopping Theory for Cache Consistency Checks <i>M. Spanoudakis, D. Lorentzos, C. Anagnostopoulos, S. Hadjiejthymiades</i>	Introducing a Collaborative Peer-Evaluation Learning Model in Higher Education Programming-based Courses <i>Katerina Georgouli, Cleo Sgouropoulou, Ilias Skalkidis, Haris Tsetsekas</i>
	Robust Line Detection in Images of Building Facades using Region-based Weighted Hough Transform <i>Theocharis Tsenoglou, Nikolaos Vassilas, Djamchid Ghazanfarpour</i>	IP.AD.: An Integrated Project Management and Instructional Systems Development Model for E-Learning <i>Konstantinos Chimos, Theodoros Karvounidis, Ioannis Katsanakis, Michail Basios, Ioannis Kostis, Christos Douligeris</i>

16:45 – 17:00 Coffee Break

17:00 – 19:00 General Assembly of the Hellenic Association of Information Systems (HeAIS)

Conference Hall (ground floor)



Sunday, 7 October 2012

09:15 – 11:15	09:15 – 11:00	09:15 – 11:00
<p>Session 7A: Special Session - Real World Internet (RWI)</p> <p>Chairs: Ioannis Chatzigiannakis, Panagiotis Kikiras <i>Conference Hall (ground floor)</i></p>	<p>Session 7B: Special Session - Secure Retrieval and Dissemination of Information (text and image) in Distributed and Wireless specific purpose Environments 2012</p> <p>Chair(s): TBA <i>Lecture Room 106</i></p>	<p>Session 7C: Special Session - 2nd Mobile Device Software Development and Web Development (MDSW) 2012</p> <p>Chairs: Nikitas N. Karanikolas, Ioannis Voyiatzis <i>Lecture Room 107</i></p>
<p>Eco - labeling Greek schools for energy efficiency over IPv6</p> <p><i>K. Koumoutsos, E. A. Varvarigos, V. Nikolopoulos, A. Liakopoulos</i></p>	<p>Challenges and solutions in Electronic Patient records management using wireless sensor networks</p> <p><i>Petros Belsis, Dimitris Vassis</i></p>	<p>Model-based Engineering of Multi-Platform, Synchronous & Collaborative UIs - Extending UsiXML for polymorphic user interface specification</p> <p><i>George Vellis, Dimitrios Kotsalis, Demosthenes Akoumianakis, Jean Vanderdonck</i></p>
<p>Integration Middleware for Collection and Monitoring Environmental Parameters in Ports</p> <p><i>Christos Alexakos, Panagiotis Konstantinopoulos</i></p>	<p>Building Trust in Ad hoc Distributed Resource-sharing Networks Using Reputation-based Systems</p> <p><i>George Hatzivasilis, Charalampos Manifavas</i></p>	<p>Advanced Database design and Modern Web technologies used in Nutrition Software design</p> <p><i>Nikitas N. Karanikolas, Anastasia Tritaki, Oleg Karavasiliadis</i></p>
<p>PLATO - Intelligent middleware platform for the collection, analysis, processing of data from multiple heterogeneous sensor systems and application development for business intelligence</p> <p><i>L. Perlepes, J. Soldatos, C. Smailis, D. Dres, D. Drakoulis</i></p>	<p>Maritime Clouds for the European Ports</p> <p><i>Kleanthis Dellios, Despina Polemi</i></p>	<p>Efficient Energy Consumption's Measurement on Android Devices</p> <p><i>Kostas Kapetanakis, Spyros Panagiotakis</i></p>
<p>Managing Forest Fires with i-Protect Fire Simulation Module</p> <p><i>Ioannis Filippopoulos, Georgios Stamoulis, Panayotis Kikiras</i></p>	<p>Secure Management of Medical Data in Wireless Environments</p> <p><i>Dimitris Vassis, Petros Belsis, Christos Skourlas</i></p>	<p>EasyTracker: An Android application for capturing mobility behavior</p> <p><i>Alexandros Doulamis, Nikos Pelekis, Yannis Theodoridis</i></p>
<p>Wireless Sensor Networking, Automation Technologies and Machine to Machine Developments on the Path to the Internet of Things</p> <p><i>V. Gazis, K. Sasloglou, N. Frangiadakis, P. Kikiras</i></p>	<p>HERMES: a Tool for Querying Heterogeneous Data Stores</p> <p><i>Euclid Keramopoulos, Dimitris Dervos, Ignatios Deligiannis, Georgios Evangelidis, Philippos Pouyioutas</i></p>	<p>Efficient Support of Context-Driven Interfaces for Mobile Devices</p> <p><i>Vassilios Stefanis, Athanasios Plessas, Andreas Komninos, John Garofalakis</i></p>

<p>ROTA: an Archipelago-Wide Area Network for High Speed Communication to Ships</p> <p><i>I. Papaefstathiou, E. Sotiriades, S. Apostolakis, A. Dollas, P. Karamolegkos, M. Logaras, I. Chatzigiannakis, L. Vasilikiotis, M. Emmanouilidou, S. Aggelidakis, P. Hatzidakis</i></p>		
<p>11:15 – 11:30 Coffee Break</p>		
<p>11:30 – 12:30</p> <p>Session 8A: Main Track - e-Services and Empirical Studies</p> <p>Chair(s): TBA <i>Conference Hall (ground floor)</i></p>	<p>11:30 – 13:00</p> <p>Session 8B: Special Session - Secure Retrieval and Dissemination of Information (text and image) in Distributed and Wireless specific purpose Environments 2012</p> <p>Chair(s): TBA <i>Lecture Room 106</i></p>	<p>11:30 – 12:10</p> <p>Session 8C: Special Session - 2nd Mobile Device Software Development and Web Development (MDS2) 2012</p> <p>Chair(s): TBA <i>Lecture Room 107</i></p>
<p>Developing RFID-based Systems for Security in Marine Transportations</p> <p><i>Kyprianos Papadimitriou, Dionisios Pnevmatikatos, Apostolos Dollas, Christos Koulamas, Stavros Aggelidakis, Petros Chatzidakis, Leonidas Vasilikiotis, Maria Emmanouilidou</i></p>	<p>An Ad Hoc-based ERP for Medical Treatment Provision in Crisis Conditions</p> <p><i>Dimitrios Vassis, Vassilis Zafeiris, Christos Skourlas, Petros Belsis</i></p>	<p>Secure Wireless Infrastructures and Mobile Learning for Deaf and Hard-of-Hearing Students</p> <p><i>Petros Belsis, Stefanos Gritzalis, Catherine Marinagi, Christos Skourlas, Dimitris Vassis</i></p>
<p>Experiences from the urban computing impact on urban culture</p> <p><i>Eleni Christopoulou, Dimitrios Ringas, Michalis Stefanidakis</i></p>	<p>Fuzzy Lattice Reasoning (FLR) extensions to Lattice-valued Logic</p> <p><i>Vassilis G. Kaburlasos</i></p>	<p>Design and Implementation of an e-exam System based on the Android platform</p> <p><i>George Meletiou, Ioannis Voyiatzis, Vera Stavroulaki, Cleo Sgouropoulou</i></p>
<p>Proactivity in Service Based Applications</p> <p><i>Georgios Vlahakis, Dimitris Apostolou</i></p>	<p>TheMa: An API for Mining Linked Datasets</p> <p><i>Chrysostomos Tsoukalas, Dimitris Dervos, Jorge Martinez-Gil, Jose F. Aldana-Montes</i></p>	<p>12:15 – 13:00</p> <p>Session 8D: Main Track - Computer Supported Education and eLearning</p> <p>Chair(s): TBA <i>Lecture Room 107</i></p>
<p>12:35 – 13:00</p> <p>Session 8E: Main Track - Human Computer Interfaces</p> <p>Chair(s): TBA <i>Conference Hall (ground floor)</i></p>	<p>A workbench for extractive summarizing methods</p> <p><i>Nikitas N. Karanikolas, Eleni Galiotou, Christodoulos Tsoulloftas</i></p>	<p>Using Microworlds to Introduce Programming to Novices</p> <p><i>Yannis Papadopoulos, Stergios Tegos</i></p>
<p>Design of a tactile display based on a high power CMUT array</p> <p><i>Vasilios Chouvardas, Amalia Miliou, Miltiadis Hatalis</i></p>		<p>An applicable method for evaluation of web-learning platforms content quality and usage</p> <p><i>Stavros Valsamidis, Sotirios Kontogiannis, Ioannis Kazanidis, Alexandros Karakos</i></p>

13:00 – 14:00 Closing – Awards

Conference Hall (ground floor)