

# ACAC 2012 – University of Athens

7th Athens Colloquium on Algorithms and Complexity

## – Program –

(The talks and coffee breaks will take place at the *Amphitheater* of the dept. of *Informatics and Telecommunications*.)

<b>Monday, August 27</b>	
8:15 - 9:20	<b>Registration</b> (Amphitheater)
9:20 - 9:25	<b>Opening and Welcome</b>
	<b>Invited Session 1</b> (Chair: Stathis Zachos)
9:25 - 10:15	<b>Computation of Least Fixed Points</b> <i>Mihalis Yannakakis</i> (Columbia University)
10:15 - 10:40	<b>Coffee Break</b>
	<b>Invited Session 2</b> (Chair: Elias Koutsoupias)
10:40 - 11:30	<b>Computation of Nash Equilibria in Bimatrix Games</b> <i>Spyros Kontogiannis</i> (University of Ioannina)
11:30 - 12:05	<b>Coffee Break</b>
	<b>Session 1</b> (Chair: Vangelis Markakis)
12:05 - 12:30	<b>Uniform Price Auctions: Equilibria and Efficiency</b> <i>Orestis Telelis</i> (University of Liverpool)
12:30 - 12:55	<b>Characterizations of truthful mechanisms</b> <i>Angelina Vidali</i> (University of Vienna)
12:55 - 13:20	<b>The Complexity of finding an Arrow-Debreu Market equilibrium for CES and other types of Markets</b> <i>Dimitris Paparas</i> (Columbia University)
13:20 - 14:45	<b>Lunch Break</b> (2nd floor, Room B25)
	<b>Invited Session 3</b> (Chair: Iordanis Kerenidis)
14:45 - 15:35	<b>Coordination Mechanisms for Selfish Routing</b> <i>George Christodoulou</i> (University of Liverpool)
15:35 - 16:00	<b>Coffee Break</b>
	<b>Session 2</b> (Chair: Giorgio Lucarelli)
16:00 - 16:25	<b>Online Graph Exploration with Advice</b> <i>Euripides Markou</i> (University of Central Greece)
16:25 - 16:50	<b>Conflict-free coloring with respect to a subset of intervals</b> <i>Panagiotis Cheilaris</i> (Università della Svizzera italiana)
16:50 - 17:15	<b>First order logic and random geometric graph</b> <i>Tobias Mueller</i> (Utrecht University)
17:15 - 17:35	<b>Complementary Sequences: Theory, Search Methods and Applications</b> <i>Ilias Kotsireas</i> (Wilfrid Laurier University, Waterloo, Canada)
17:35 - 18:00	<b>Coffee Break</b>
	<b>Invited Session 4</b> (Chair: Vangelis Paschos)
18:00 - 18:50	<b>Models and Algorithms for Online Collaborative Systems</b> <i>Aris Anagnostopoulos</i> (Sapienza University of Rome)

<b>Tuesday, August 28</b>	
	<b>Invited Session 5</b> (Chair: Ilias Kotsireas)
9:30 - 10:20	<b>Dynamic Networks Foundations</b> <i>Paul Spirakis</i> (University of Patras)
10:20 - 10:45	<b>Coffee Break</b>
	<b>Session 3</b> (Chair: Orestis Telelis)
10:45 - 11:10	<b>Lower bounds on Information Complexity via zero-communication protocols and applications</b> <i>Iordanis Kerenidis</i> (CNRS-Univ Paris Diderot)
11:10 - 11:35	<b>Computing the volume of the discriminant polytope</b> <i>Vissarion Fisikopoulos</i> (University of Athens)
11:35 - 12:00	<b>A New Representation for Geometric Sets</b> <i>George Tzoumas</i> (LE2I - Université de Bourgogne)
12:00 - 12:25	<b>Coffee Break</b>
	<b>Session 4</b> (Chair: Dimitrios Poulakis)
12:25 - 12:50	<b>Finding Dominators in Interprocedural Flowgraphs</b> <i>Loukas Georgiadis</i> (University of Ioannina)
12:50 - 13:15	<b>Integer solutions of diophantine linear equation under constraints</b> <i>Konstantinos Draziotis</i> (Aristotle University of Thessaloniki)
13:15 - 13:40	<b>Univariate real root isolation in an extension field</b> <i>Elias Tsigaridas</i> (INRIA)
13:40 - 15:05	<b>Lunch Break</b> (2nd floor, Room B25)
	<b>Session 5</b> (Chair: Euripides Markou)
15:05 - 15:55	<b>Cryptography research: directions and challenges</b> <i>Aggelos Kiayias</i> (University of Athens)
15:55 - 16:20	<b>Coffee Break</b>
	<b>Session 6</b> (Chair: Elias Tsigaridas)
16:20 - 16:45	<b>A digital signature scheme for long-term security</b> <i>Dimitrios Poulakis</i> (Aristotle University of Thessaloniki)
16:45 - 17:10	<b>Practical Aspects of Quantum Coin Flipping</b> <i>Anna Pappa</i> (Telecom ParisTech)
17:10 - 17:35	<b>Linking physics and algorithms in the three-dimensional random-field Ising model</b> <i>Nikolaos Fytas</i> (Complutense University of Madrid)
17:35 - 18:00	<b>Coffee Break</b>
	<b>Invited Session 6</b> (Chair: Aris Pagourtzis)
18:00 - 18:40	<b>Beyond polynomial approximation. Moderately exponential, subexponential and parameterized approximability.</b> <i>Vangelis Paschos</i> (Université Paris-Dauphine, LAMSADE)
20:00	<b>Dinner</b>