International Congress on Mathematics MICOM-2015

Congress Program

TIME	Tuesday September 22, 2015
16:00-17:00	Registration
	OPENING CEREMONY **ROOM 1** Chair: A. Fellouris, P. Kenderov, A. Lipkovski
17:00-17:40	**Welcome Addresses**
17.40-18.30	**Plenary Lecture** **Dr. Antonios Melas** **Professor, Department of Mathematics, University of Athens** **"Sharp norm estimates for the dyadic maximal operator and Bellman functions"**
18.30-19.00	**Coffee Break**
19.00 20.15	**Session dedicated to Christos Papakyriakopoulos and Stefan Dodunekov»** **Tribute to Christos Papakyriakopoulos** • Sofia Lambropoulou, Professor, School of Applied Mathematical and Physical Sciences, National Technical University of Athens • Andriani Nikolakopoulou, University of Ioannina • Stavros Papastavridis, Emeritus Professor Department of Mathematics, University of Athens
20.15-21.00	**Tribute to Stefan Dodunekov** • Petar Kenderov, Professor, Bulgarian Academy of Science

	Wednesday September 23, 2015 Morning		
TIME	**ROOM 1** **Chair: K.Kiriaki, V. Manova-Erakovic, M. Choban**		**ROOM 2** **Chair: I. Mirchev, P. Boyvalenkov**
09:00-09:20	On functional equivalence of spaces **Mitrofan Choban, Radu Dumbraveanu**	09:00-09:30	Classification of optimal binary cyclically permutable constant weight codes of weight 6 and 7 and small length **Tsonka Baicheva, Svetlana Topalova**
09:20-09:40	Some extension theorems of the type of Hahn-Banach for skew symmetric2-forms on cycle 2-subspases and kernel 2-subspaces **Aleksa Malcheski, Vesna Manova-Erakovik, Risto Malcheski**	09:30-10:00	On t-deletion-correcting codes of length $2t+3$ **Emil Kolev**
09:40-10:00	Some properties of C-distribution semi-groups and C-ultradistribution semigrous in locally convex spaces **Marko Kostić, Stevan Pilipović, Daniel Velinov**		
10:00-10.20	The thermoelastic multiple scattering problem **E.Argyropoulos, E. Argyropoulou, K. Kiriaki**	10:00-10:30	Enumeration of the elements of GF(2^n) with related trace and co-trace **Youri Borissov**
10:20-10.40	Nonlinear double resonant periodic problems with $\mathcal{P}$ -Laplacian **Sophia Th. Kyritsi, Evgenia H. Papageorgiou**	10:30-11.00	Linear programming bounds for the mesh ratio of spherical designs **Peter Boyvalenkov Peter Dragnev, Douglas Hardin, Edward Saff, Maya Stoyanova**
10.40-11.00	Matrix theorems and interchange for lattice group-valued series in the filter convergence setting **Antonio Boccuto, Xenofon Dimitriou**		
11:00 11:30	**Coffee Break**		
11.30-11.50	On the higher order Sylvester Quaternion equatiuon $aq^n +q^nb=c$ **Anargyros Fellouris, Andreas Boukas**	11.30-12.00	Inequivalent optimal properties of the binary/ternary covering codes **Emil Kolev**
11.50-12.10	Some notes on the periodic distributions **Nikola Reckoski, Vasko Reckovski, Vesna Manova-Erakovikj**		
12.15-13.15	**ROOM 1** **Plenary Lecture** **Emmanouil Georgoulis,** **Associate Professor , School of Applied Mathematical and Physical Sciences,** **National Technical University of Athens** **"Adaptive numerical methods for evolution partial differential equations"**		
		15.00-16.00	**Discussion**

	Wednesday September 23, 2015 Afternoon		
TIME	**ROOM 1** **Chair: N. Papanastasiou,** **P. Psarrakos, F. Damian**		**ROOM 2** **Chair: F. Kalavasis, D. Lappas,** **D. Kamber**
17:00-17:20	Order of Zeta functions for compact even- dimensional symmetric spaces **M. Avdispahic, Dz. Gusic and D. Kamber**	16:00-17:20	**WORKSHOP** Systemic investigations in mathematics education **Andreas Moutsios-Rentzos, Fragkiskos Kalavasis**
17:20-17:40	Minkowski space-time and hyperbolic geometry **J.F. Barrett**	17:20-17:40	When should we teach the Thales' intercept theorem? **Aleksandar Lipkovski**
1740-18:00	Hyperbolic manifolds built on the geometry of their cusps **Florin Damian**	17:40-18:00	On aspects of teaching the "rate of change" in different educational grades by means of current educational software **Dimitra Remoundou, Evgenios Avgerinos**
18:00-18.30	Coffee Break		
18:30-18.50	The parametric approach to the Architectural problem of projecting higher dimensional hypercubes in R^3 its correlation with the tessellation of a plane **Ioannis Z. Emiris, Nikos Kourniatis**	18:30-18.50	Number Theory in Byzantium according to codex Vindobonensis Phil.Graecus 65 of the 15th cent. The numbers and the numeric position in Byzantium **Chalkou Maria**
18.50-19.10	Unwrappings of developable surfaces via closed-form formulas **Dimitrios Kodokostas**	18.50-19.10	Differentiated inctruction in College lessons **D. Kamber, Dz. Gusic**
19.10-19.30	Pythagorean triples and their algebraic structure, **Milan Živanović,** **Aleksandar Lipkovski**	19.10-19.30	Working with talented young mathematicians in the RCT "Mihajlo Pupin" Pancevo - motive as the basic principle of achievement **Dragoljub A. Cucić, Aleksandar S. Nikolić, Savo Ćebić, Mirko Dejić**
19.30-19.50	Birkhoff-James approximate orthogonality sets **Christos Chorianopoulos, Panayiotis J. Psarrakos**	19.30-19.50	On new instructional practices and theoretical context for teaching the notion of fractions through the theory of multiple representations **Avgerinos Evgenios, Vlachou Roza**

	Thursday September 24, 2015 Morning			
TIME	ROOM 1 Chair: I. Antoniou, P. Vlamos, A. Lipkovski			ROOM 2 Chair: T. Baicheva, E. Kolev
09:00-09:20	Heuristic algorithm for HP folding in HP model **Nikola Yanev, Peter Milanov, Borislav Yurukov, Ivan Trenchev, Metodi Traykov**	09:00-09:30		Binary isodual codes having an automorphism of odd prime order **Stefka Bouyuklieva**
09:20-09:40	Steganography based on chaotic torus automorphisms **George Makris, Ioannis Antoniou**	09:30-10:00		Simulated annealing type algorithms for packing spherical caps **Victor Baytchev, Peter Boyvalenkov, Konstantin Delchev, Yavor Papazov**
09:40-10:00	Metaheuristic algorithms for routing problems: from the travelling salesman problem to the inventory routing problem **Pantelis Z. Lappas, Manolis N. Kritikos, George D. Ioannou**			
10:00-10.20	High performance computing on Bioinformatics **Anton Stoilov, Borislav Yurukov**	10:00-10:30		On the automorphism group of regular parallelisms of PG(3; 7) **Svetlana Topalova, Stela Zhelezova**
10:20-10.40	Computer graphics's application in Bioinformatics **IvanTrenchev, Radoslav Mavrevski, Anton Stoilov, Metodi Traykov, Borislav Yurukov**	10:30-11.00		Coding theory and Cryptography teaching in the Bulgarian universities a dedication to Stefan Dodunekov **Peter Boyvalenkov, Ivan Mirchev**
10.40-11.00	Minimal surfaces and form finding of architectural designs **Jana Lipkovski, Florian Weinmann, Aleksandar Lipkovski**			
11:00 11:30	Coffee Break			
11.30-11.50	The role of bifurcation diagrams for the prediction of the behavior of nonlinear deterministic models in Bioinformatics **Panagiotis Vlamos**	11.30-12.00		Investigation of "optimal" properties of the contemporary genetic codes according to simple mutation **Peter Milanov, Ivan Trenchev, Ivan Mirchev, Borislav Yurukov**
11.50-12.10	Fuzzy Logic and Genetic Algorithms : a multidisciplinary approach **Elena Vlamou, Basil Papadopoulos**	12.00-12.30		On DNA codes and additive codes over GF(4) **Zlatko Varbanov**
12.10-12.30	The supply chain network design problem quantitative approaches to managing operational and disruption risks **Pantelis Z. Lappas, Manolis N. Kritikos**	12.30-12.45		New quasi-cyclic codes over GF(11) **Rumen Daskalov**
		12.45-13.00		New large (n, r)-arcs in PG(2,31) **Rumen Daskalov, Elena Metodieva**
		15.00-16.00		**Discussion**

	Thursday September 24, 2015 Afternoon		
	ROOM 1 **Chair: N. Alexandris, P. Kenderov, I. Emmanouil**		
17.00-18.00	**Plenary Lecture** **Mladen Savov** **Associate Professor, Bulgarian Academy of Sciences** **"The spectral theory of generalized Laguerre semigroups and its applications to positive self-similar Markov processes"**		
18.00-18.30	**Coffee Break**		
TIME	**ROOM 1** **Chair: N. Alexandris, P. Kenderov, I. Emmanouil**		**ROOM 2** **Chair: S. Karanasios, E. Kritikos,**
18:30-18:50	Some tail index estimators and their properties **Lenka Glavaš , Jelena Jocković , Pavle Mladenović**	**18:30-18:50**	Enumerators of ordered colorings of graphs **Tanja Stojadinović**
18:50-19:10	On birth – death circuit chains **Ganatsiou Chrysoula**	**18:50-19:20**	Groebner bases and tiling problems **Manuela Muzika Dizdarevic**
19.10-19:30	The Hausdorff distance as a criterion for the optimal model selection in torque-angle relationships **Radoslav Mavrevski, Gergana Koroleova, Nevena Pencheva, Peter Milanov, Borislav Yurukov**	**19.20-19:40**	Finite rings and their structural graphs **Jelena Škorić, Aleksandar Lipkovski**
19:30-19.50	Determination of the relationship between the docking studies and the biological activity of delta selective enkephalin analogues **Fatima Sapundzhi, Tatyana Dzimbova, Nevena Pencheva, Peter Milanov**	**19.40-20.00**	Research towards an Institution Independent Model Theory **Yiannis Kiouvrekis, Stefaneas Petros**
20.30	**Official Dinner** **Hotel President**		

	Friday September 25, 2015
	Optional Excursion **(Cruise to Poros-Ydra-Aigina)**
	Saturday September 26, 2015
	Departure Day