Under the Auspices of H.E. the President of the Hellenic Republic Mr. Prokopios Pavlopoulos

First Congress of Greek Mathematicians FCGM-2018



June 25 – 30, 2018 Athens, Greece Hellenic Mathematical Society (HMS)

First Congress of Greek Mathematicians Program

Plenary Talks

Monday, June 25, 2018

	Reception and Opening Ceremony							
	Coffee Break Athanasios Fokas							
11:30 - 12:20								
12:30 - 13:20	From the Wiener-Hopf technique to the Lindelöf Hypothesis Demetrios Christodoulou							
12.30 - 13.20	Geometric Analysis in the Development of Shocks							
	in Compressible Fluids							
14:30 - 16:00	Break							
16:00 - 18:30	Parallel Sessions							
	ANAL, DIFFEQ, H&PH, NT, TOP							
19:00 - 19:50								
	Stochastic partial differential equations and risk management							
20:00 - 20:50	Mihalis Dafermos							
	The mathematics of black holes							
Tuesday, June 26, 2018								
09:00 - 11:00	Parallel Sessions							
	AN, DIFFEQ, GEOM, PROB-STAT, TOP							
11:00 - 11:30	••							
11:30 - 12:20	George Papanicolaou							
	Imaging with correlations							
12:30 - 13:20	Constantinos Daskalakis							
12.20 14.20	From von Neumann's Minimax Theorem to Generating Beautiful Images							
13:30 - 14:20	Loukas Grafakos							
	A short glimpse of the giant footprint of Fourier Analysis and recent multilinear advances							
14:30 - 16:00	Break							
	Parallel Sessions							
10.00 10.00	ANAL, DIFFEQ, GEOM, M-FIN							
18:30 - 19:00	Coffee Break							
	Round Table							
10.00 20.00	The leakage of Greek scientific potential in the years of the crisis.							
	Which factors could help to its containment?							
	V. Dougalis (NKUA, Coordinator), C. Daskalakis (MIT)							
	G. Papanicolaou (Stanford), I. Sakellaridis (Rutgers)							
	Representatives of the Greek Ministry of Education,							
	the Bank of Greece and the National Bank of Greece							

Wednesday, June 27, 2018

09:00 - 11:00	Parallel Sessions ALG-COMB, ANAL, DIFFEQ, LFM, M-EDU, NA&SC
11:00 - 11:30	Coffee Break
	Alexander Kechris
12:30 - 13:20	Dynamics of non-archimedean groups, logic and Ramsey theory Stavros Garoufalidis
13:30 - 14:20	Classical and quantum topology Maryanthe Malliaris
14:30 - 16:00	Model theory and ultraproducts Break
16:00 - 18:30	Parallel Sessions
18:30 - 19:00	ALG-COMB, ANAL, DIFFEQ, GEOM, LFM, M-EDU, NA&SC Coffee Break
19:00 - 19:50	Spyridon Argyros
20:00 - 20:50	The space $\mathcal{L}(\mathfrak{X})$ for certain Banach spaces Phokion Kolaitis
	Logic, Constraint Satisfaction, and Quantum Information
	Thursday, June 27, 2018
	Parallel Sessions ALG-COMB, ANAL, DIFFEQ, LFM, M-EDU, NA&SC
	Coffee Break
11:30 - 12:20	Charalambos Makridakis
12.00 10.00	Mathematics of Computational Modelling: the challenge of computing nonlinear phenomena
12:30 - 13:20	Panagiota Daskalopoulou
13.30 - 14.20	Ancient solutions to Geometric Flows Nicos Kapouleas
10.00 14.20	Recent gluing constructions in Geometry and the gluing methodology
14:30 - 16:00	Break
16:00 - 18:30	Parallel Sessions
18:30 - 19:00	ALG-COMB, ANAL, DIFFEQ, NA&SC, PROB-STAT Coffee Break
	Georges Skandalis
	Lie groupoids and index theory
20:00 - 20:50	George Pappas
	Shimura varieties over the integers

Friday, June 29, 2018

09:00 - 11:00	Parallel Sessions
	ALG-COMB, ANAL, M-PHYS, PROB-STAT
11:00 - 11:30	Coffee Break
11:30 - 12:20	Harry Tamvakis
	Theta polynomials in geometry, Lie theory, and combinatorics
12:30 - 13:20	Antonis Melas
	Sharp estimates for dyadic type maximal operators and stability
13:30 - 16:00	Break
16:00 - 18:30	Parallel Sessions
	ALG-COMB, ANAL, CT&OR, M-PHYS
18:30 - 19:00	Coffee Break
19:00 - 19:50	George Karniadakis
	Fractional Partial Differential Equations:
	Theory, Algorithms and Applications
20:00 - 20:50	Michael Katehakis
	Reinforcement Learning: Connections between
	MDPs and MAB Problems
21:00 -	Dinner of the Congress
	The farewell dinner will take place in RYTHMOS, Zografou
	at the park Goudi

Saturday, June 30, 2018

Excursion: One Day Cruise to Hydra – Poros – Aegina.

	Room	25B	26A	26B	27A	27B	28A	28B	29A	29B
ALG-COMB	$AM\Phi.22$				*	*	*	*	*	*
ANAL	$AM\Phi.24$	*	*	*	*	*	*	*	*	*
CT	Γ.21									*
DIFFEQ	AMΦ.23	*	*	*	*	*	*	*		
GEOM	Γ.32		*	*		*				
H&PH	Γ.31	*								
LFM	Γ.22				*	*	*			
M-FIN	Γ.21			*						
M-PHYS	Γ.22								*	*
M-ED	Γ.31				*	*	*			
NT	Γ.21	*								
NA&SC	AMΦ.21				*	*	*	*		
PROB-STAT	$\Gamma.31 - 32$		*					*	*	
TOP	Γ.22	*	*							

Parallel Sessions

 $\texttt{ALG-COMB}-Algebra \ and \ Combinatorics$

ANAL - Analysis

 $\mathtt{CT}-\mathtt{Control}$ Theory, Operations Research and Optimization

DIFFEQ – Differential Equations and Dynamical Systems

 ${\tt GEOM-Geometry}$

H&PH – History and Philosophy of Mathematics

LFM – Logic and Foundations of Mathematics

M-FIN – Mathematical Finance

M-PHYS - Mathematical Physics

 $\texttt{M-ED}-Mathematics\ Education$

NT – Number Theory, Arithmetic Geometry, Cryptography

NA&SC – Numerical Analysis and Scientific Computing

PROB-STAT – Probability and Statistics

TOP – Topology and Applications