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

First Congress of Greek Mathematicians FCGM-2018



 $\begin{array}{c} {\rm June~25-30,~2018} \\ {\rm Athens,~Greece} \\ {\rm Hellenic~Mathematical~Society~(HMS)} \end{array}$

First Congress of Greek Mathematicians Program

Plenary Talks

	Monday, June 25, 2018
09:00 - 11:00	Reception and Opening Ceremony
	Coffee Break
11:30 - 12:20	Athanasios Fokas
	From the Wiener-Hopf technique to the Lindelöf Hypothesis
12:30 - 13:20	Demetrios Christodoulou
	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	Thaleia Zariphopoulou
20.00 20.50	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	Coffee Break
11:30 - 12:20	George Papanicolaou
	Imaging with correlations
12:30 - 13:20	Constantinos Daskalakis
	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
14:30 - 16:00	and recent multilinear advances
	Parallel Sessions
10:00 – 18:30	
18:30 - 19:00	ANAL, DIFFEQ, GEOM, M-FIN Coffee Break
19:00 - 20:50	Round Table
19.00 - 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
11:30 - 12:20	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
	Parallel Sessions
10.00 10.00	ALG-COMB, ANAL, DIFFEQ, GEOM, LFM, M-EDU, NA&SC
18:30 - 19:00	
	Spyridon Argyros
	The space $\mathcal{L}(\mathfrak{X})$ for certain Banach spaces
20:00 - 20:50	Phokion Kolaitis
	Logic, Constraint Satisfaction, and Quantum Information
	Thursday, June 27, 2018
09:00 - 11:00	Parallel Sessions
	ALG-COMB, ANAL, DIFFEQ, LFM, M-EDU, NA&SC
11:00 - 11:30	Coffee Break
11:30 - 12:20	Charalambos Makridakis
	Mathematics of Computational Modelling: the challenge
10.00 10.00	of computing nonlinear phenomena
12:30 - 13:20	Panagiota Daskalopoulou
19.20 14.90	Ancient solutions to Geometric Flows
15:50 - 14:20	Nicos Kapouleas
14:30 - 16:00	Recent gluing constructions in Geometry and the gluing methodology Break
16:00 - 18:30	Parallel Sessions
	ALG-COMB, ANAL, DIFFEQ, NA&SC, PROB-STAT
18:30 - 19:00	Coffee Break
19:00 - 19:50	Georges Skandalis

 $Lie\ groupoids\ and\ index\ theory$

 $Shimura\ varieties\ over\ the\ integers$

 $20:00-20:50 \quad \textbf{George Pappas}$

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

Saturday, June 30, 2018

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

at the park Goudi

Parallel Sessions

	Room	25B	26A	26B	27A	27B	28A	28B	29A	29B
ALG-COMB	АМФ.22				*	*	*	*	*	*
ANAL	АМФ.24	*	*	*	*	*	*	*	*	*
CT	Γ.21									*
DIFFEQ	АМФ.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	АМФ.21				*	*	*	*		
PROB-STAT	$\Gamma.31 - 32$		*					*	*	
TOP	Γ.22	*	*							

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

ANAL - Analysis

CT – Control Theory, Operations Research and Optimization

DIFFEQ – Differential Equations and Dynamical Systems

GEOM - Geometry

H&PH – History and Philosophy of Mathematics

LFM – Logic and Foundations of Mathematics

M-FIN - Mathematical Finance

M-PHYS - Mathematical Physics

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