Under the Auspices of His Excellency the President of the Hellenic Republic, Mr. Prokopios Pavlopoulos

Technical Program - October 15-16, 2019 FORTH/ICE-HT Conference Center Stadiou Str., Platani, Patras

Tuesday, October 15, 2019 (FORTH/ICE-HT Conference Center)

8:45 Bus arrival at FORTH/ICE-HT

9:00 - 10:50	PRESENTATIONS OF FORTH INSTITUTES AND UNITS (1)
	Chair: Dr. Maria Klapa (ICE-HT)
9:00 - 9:20	Presentation of FORTH
	Prof. Nektarios Tavernarakis, Chairman of Board of Directors
9:20 - 9:35	Institute of Chemical Engineering Sciences (ICE-HT)
	Dr. Vassilios Burganos, Director
9:35 - 9:50	Institute of Molecular Biology and Biotechnology (IMBB)
	Dr. lannis Talianides, Director
9:50 - 10:05	Institute of Petroleum Research (IPR)
	Prof. Nikolaos Pasadakis, Director
10:05 - 10:20	Institute of Astrophysics (IA)
	Prof. Vassilios Charmandaris, Director
10:20 - 10:30	PRAXI - Help Forward Network
	Mr. Panagiotis Karniouras, Director
10:30 - 10:40	The Science and Technology Park of Crete (STEP-C)
	Mr. Artemis Saitakis, Director
10:40 - 10:50	Crete University Press (CUP)
	Ms. Dionysia Daskalou, Director
10:50 - 11.40	Coffee Break - Poster Viewing

Plenary Lecture I – Precision Medicine	
11:40 - 12:25	Chair: Dr. Iannis Talianides (IMBB)
	The Human Cell Atlas impact on life science and healthcare Prof. Henk Stunnenberg Senior Scientist at Princess Maxima Centre for Pediatric Oncology, Utrecht Professor of Molecular Biology, Radboud University, Nijmegen, The Netherlands
12:25 - 13:25	FORTH RESEARCHERS' PRESENTATIONS: SESSION 1
	Chair: Dr. Maria Monastirioti (IMBB)
12:25 - 12:45	Unraveling the mechanisms regulating innate immune responses to identify functional biomarkers for inflammatory diseases Prof. Christos Tsatsanis IMBB Collaborating Faculty Member & Medical School-University of Crete
12:45 - 13:05	Organoid based tissue manufacturing: designing high-precision functional living implants Dr. Ioannis Papantoniou Assistant Researcher, ICE-HT
13:05 - 13:25	Greek National Networks of Personalized Medicine for Cancer Prevention and Cardiovascular diseases: technical perspectives Dr. Irini Fundulaki Associate Researcher, ICS
13:30 - 14:00	FORTH/ICE-HT Lab Tour
14:00 - 15:00	Lunch

Plenary Lecture II – Petroleum Research	
15:00 - 15:45	Chairs: Dr. Vassilios Burganos (ICE-HT) & Prof. Nikolaos Pasadakis (IPR)
	Multiphase flow in geological porous media: new insights and application perspectives
	Dr.Olga Vizika
15:50 - 17:30	Director of Geosciences, IFP Energies Nouvelles, France FORTH RESEARCHERS' PRESENTATIONS: SESSION 2
	Chair: Dr. Konstantina Georgiadi (IMS)
	Archaeological investigation of the Institute for Mediterranean Studies in Eastern
15:50-16:10	Crete Dr. Konstantinos Roussos
	Postdoctoral Research Fellow, IMS
16:10-16:30	Multi-Level Studies of Developmental Morphogenesis: from Biophysics to EvoDevo
10.10 10.00	Dr. Anastasios Pavlopoulos Assistant Researcher, IMBB
16.20.16.50	Lasers: From strong-laser-field physics to attosecond science and quantum optics
16:30-16:50	Dr. Paraskevas Tzallas
	Research Director, IESL Uncovering Conspiracy Theories: How to Discover and Infer Latent Confounders in
16:50-17:10	Sparse Dynamical Systems
	Dr. Yannis Pantazis
	Assistant Researcher, IACM Reasoning Technologies for Theoretical and Applied AI
17:10-17:30	Dr. Giorgos Flouris
17:30 - 18:20	Associate Researcher, ICS SHORT PRESENTATIONS OF 2019 FORTH SYNERGY GRANTS
17.30 - 18.20	• "OMEGA": Optical memristors, based on photo-fluidity, chalcogenide whispering
	gallery mode cavities
	Dr. Stavros Pissadakis
	Research Director, IESL
	 "RINGS": Shear and extensional rheology of entangled ring polymer melts Dr. Dimitris Tsalikis
	Postdoctoral Research Fellow, ICE-HT
	• "NEUROGRAMS": Neural networks in Alzheimer's disease
	Prof. Maria Papadopouli, Dept. of Computer Science, University of Crete
	ICS Collaborating Faculty Member
	"SPIVAST": Spin-valley polarization studies in monolayer transition metal dichalgogenides under mechanical deformation
	Prof. George Kioseoglou, Dept. of Materials Science & Technology, Univ. of Crete
	IESL Collaborating Faculty Member
	• "EVO-NMDA": Evolution of the NMDA receptor and its role in cognitive functions
	Dr. Pavlos Pavlidis
18:20 - 19:40	Assistant Researcher, ICS Main Poster Presentation Session
19:45	Transport to hotels
21:00	GALA DINNER (IFIGENEIA Restaurant, Rio http://www.ifigeneiarestaurant.gr/)
21.00	Color State (in fortier restaurants file interpretation of the int

Wednesday, October 16, 2019 (FORTH/ICE-HT Conference Center)

8:45 Bus arrival at FORTH/ICE-HT

9:00 - 10:00	PRESENTATIONS OF FORTH INSTITUTES AND UNITS (2)
	Chair: Dr. Wolf von Klitzing (IESL)
9:00 - 9:15	Institute of Mediterranean Studies (IMS)
	Prof. Gelina Harlaftis, Director
9:15 - 9:30	Institute of Electronic Structure and Laser (IESL)
	Prof. Spiros Anastasiadis, Director
9:30 - 9:45	Institute of Computer Science (ICS)
	Prof. Dimitris Plexousakis, Director
9:45 - 10:00	Institute of Applied and Computational Mathematics (IACM)
	Prof. Charalambos Makridakis, Director

Plenary Lecture III – Space Research	
10:00 - 10:45	Chair: Dr. Wolf von Klitzing (IESL)
	Presenting the ESA General Support Technology Programme (GSTP) Mr. Udo Becker Head of Technology Programmes Office European Space Agency (ESA)
10:45 - 11:20	Coffee Break
11:20 - 13:00	FORTH RESEARCHERS' PRESENTATIONS: SESSION 3 Chair: Dr. Maria Klapa (ICE-HT) & Dr. Konstantina Georgiadi (IMS)

11:20 - 13:00	FORTH RESEARCHERS' PRESENTATIONS: SESSION 3
	Chair: Dr. Maria Klapa (ICE-HT) & Dr. Konstantina Georgiadi (IMS)
11:20 - 11:40	Quantum Waves at IESL: From the Fundamental to the Practical
	Dr. Wolf von Klitzing
	Research Director, IESL
11:40 - 12:00	Estimation of Soil Erosion rates in different spatial and time scales. A
	Geoinformatics approach
	Dr. Dimitrios Alexakis
	Assistant Researcher, IMS
12:00 - 12:20	Signalling and Endocytic trafficking in endothelial cells: Basic Mechanisms and
	Perspectives in stem cell biology and differentiation
	Dr. Carol Murphy
	Associate Researcher, IMBB-BR
12:20 - 12:40	The Center of Studies on Air Quality and Climate Change (C-STACC) in ICE-HT
	Prof. Athanasios Nenes
	ICE-HT Affiliated Scientist & School of Architecture, Civil & Environmental
	Engineering, EPFL
12:40 - 13:00	3D Computer Vision for Faces and Other Deformable Objects
	Dr. Anastasios Roussos
	Associate Researcher, ICS
13:00 - 14:00	Lunch

14:00 - 14:40	FORTH RESEARCHERS' PRESENTATIONS: SESSION 4
	Chair: Dr. Ioannis Kamarianakis (IACM) & Dr. Maria Monastirioti (IMBB)
14:00 - 14:20	Cryptography: An interdisciplinary research field
	Dr. Georgios Nikolopoulos
	Associate Researcher, IESL
14:20 - 14:40	In Gods we trust, all others must bring data: IACM's new Statistical Learning Lab
	Dr. Ioannis Kamarianakis
	Associate Researcher, IACM

Plenary Lecture IV - Big Data Analysis	
14:40 - 15:25	Chair: Ioannis Kamarianakis (IACM)
	Bayesian computation: a personal perspective
	Prof. Petros Dellaportas
	Professor of Statistical Science, UCL, UK, Professor of Statistics at the Athens
	University of Economics and Business & Turing Fellow, Alan Turing Institute, UK
15:25 - 16:20	FORTH General Assembly Discussion
	Chair: Prof. Nektarios Tavernarakis
16:20 - 17:00	Poster Honors - Conclusions - Closing Remarks
	Dr. Maria Klapa (on behalf of the Organizing Committee)
17:15	Departure to the Athens Airport or Piraeus Port