ACOMIN 2015 PRELIMINARY PROGRAM

November 10, 2015

9 ⁰⁰ -9 ¹⁵	OPENNING CEREMONY	
	Prof. Svetozar Margenov – Director of IICT-BAS	
15 00	Prof. Kostadin Kostadinov – Vise-Minister of Education and Science	
9. ¹⁵ -10. ⁰⁰	OLEG ILIEV. PORE SCALE MODELING AND SIMULATION OF	
	FLOW AND REACTIVE TRANSPORT ON 3D CT IMAGES	
	(INVITED TALK)	
	Session Chair: Svetozar Margenov	
10. ⁰⁰ -10. ²⁰	Coffee break	
	SESSION 1: ADVANCED COMPUTING	
	Session Chair: Oleg Iliev	
$10.^{20}$ -10. ⁴⁰	Ivan Dimov, Rayna Georgieva, Venelin Todorov. Error analysis of	
	biased stochastic algorithms for a class of integral equations	
$10.^{40}$ -11. ⁰⁰	Vlatko Nikolovski, Ivan Chorbev. Cloud Based Patient Monitoring	
	platform on Android smartphone sensors	
$11.^{00}$ -11. ²⁰	S. Stoykov, S. Margenov. FEM Nonlinear Vibration Analysis of Plates	
$11.^{20}$ -11. ⁴⁰	Stanislav Harizanov. Deblurring Poissonian Images via Multiple-	
	Constraint Optimization	
11. ⁴⁰ -12. ⁰⁰	Ivan Georgiev, S. Margenov, Advanced computing applications based	
	on micro CT data	
$12.^{00}$ - 12^{20}	Konstantinos Liolios, Vassilios Tsihrintzis, Krassimir Georgiev and Ivan	
	Georgiev. A Computational Investigation of the Optimal Reaction	
	Type Concerning Bod Removal in Horizontal subsurface Flow	
20 10	Constructed Wetlands	
$12.^{20}-12^{40}$	Clemens Hofreither, Stefan Takacs, Walter Zulehner. Robust Multigri	
40 00	Methods in Isogeometric Analysis	
$12.\overset{40}{-}14.\overset{00}{-}$	Lunch	
14. ⁰⁰ -14. ⁴⁵	IOANNIS PAPAMICHAIL. FEEDBACK-BASED INTEGRATED MOTORWAY TRAFFIC FLOW CONTROL (INVITED TALK)	
	Session Chair: Todor Stoilov	
14. ⁴⁵ -15. ⁰⁰	Coffee break	
	SESSION 2: OPTIMIZATION AND INTELLIGENT CONTROL	
	Session Chair: Ioannis Papamichail	
$15.^{00}$ -15. ²⁰	Ivan Kalaykov. Control Problems in Ground-Level Power Supply	
20 10	System for Electrical Vehicles	
$15.^{20}$ -15. ⁴⁰	Todor Stoilov, K.Stoilova, V. Stoilova. Bi-level Formalization of Urban	
10 00	Area Traffic Lights Control	
15. ⁴⁰ -16. ⁰⁰	Stefka Fidanova. Metaheuristic Method for Transport Modelling and	
	Optimization	
16. ⁰⁰ -16. ²⁰	V. Stoilova, E. Nikolov, N. Nikolova. Density control of highway traffic	
3 0 1 0	using approached dimension of spatial distribution controller	
16. ²⁰ -16. ⁴⁰	Kristina Jakimovska, Dimitar Karastoyanov, Nencho Nenov. Approaches	
	to control of railway vehicles in motion by predictive maintenance	
10 **	techniques	
16. ⁴⁰ -17. ⁰⁰	Aleksey Balabanov. Building of Numerically Effective Kalman	
	Estimator Algorithm for Urban Transportation Network	

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9. ⁰⁰ -9. ⁴⁵	JOHN DOMINGUE. DATA AND SEMANTIC TECHNOLOGIES FOR EDUCATION (INVITED TALK)		
	Hall A. Session Chair: Galia Angelova		
9. ⁴⁵ -10. ⁰⁰	Coffee break		
	PARALLEL SESSIONS:		
	SESSION 3: LANGUAGE AND	SESSION 4: OPTIMIZATION AND	
	SEMANTIC TECHNOLOGIES	INTELLIGENT CONTROL	
10 00 10 20	Hall A. Session Chair: Christo Dichev	Hall B. Session Chair: Ivan Kalaykov	
$10.^{00}$ -10. ²⁰	Ivelina Nikolova, Darina Dicheva,	Dimitar Karastoyanov, Petar Bodurov,	
	Gennady Agre, Zhivko Angelov, Galia	Todor Penchev. Nails with an	
	Angelova, Christo Dichev, Darin	Innovative Shape for High Resistive	
	Madjarov. Emerging applications of	(Resistant) Nailing in Extreme Conditions	
	educational data mining in Bulgaria: the case of UCHA.SE	Conditions	
10. ²⁰ -10. ⁴⁰	Petar Mitankin and Stoyan Mihov. A	Dimitar Karastoyanov, Ivan Yatchev,	
	new method for real-time lattice re-	Iosko Balabozov. Innovative	
	scoring in speech recognition	Graphical Braille Screen for Visually	
		Impaired People	
$10.^{40}$ -11. ⁰⁰	Jens Kohler, Adrian Fiech, Kiril Simov,	Stanislav Gyoshev, Todor Penchev.	
	Thomas Specht. On The Performance	Advanced Computing for High Speed	
	Of Query Rewriting In Vertically	Briquetting of Metal Chips and	
	Distributed Cloud Databases	Powders	
$11.^{00}$ -11. ²⁰	Olga Kanishcheva, Galia Angelova.	Nikolay Stoimenov, Todor Penchev	
	About Tag Sense Disambiguation in	Advanced Computing for Energy	
$11.^{20}$ -11. ⁴⁰	Image Annotation Svetla Boytcheva, Galia Angelova,	Efficiency of Milling Processes Jovana Ruzic, Stanislav Gyoshev,	
1111.	Zhivko Angelov, Dimitar Tcharaktchiev.	Nikolay Stoimenov, Kristina	
	Big Data Analytics in Healthcare –	Jakimovska, Aleksandar Vencl, Dimitar	
	Temporal Clinical Events Patterns	Karastoyanov. Optimization and	
	Mining	application of advanced laser	
		nanoparticle sizer on wide range of	
		materials	
$11.^{40}$ -12. ⁰⁰	Delyan Keremedchiev, Leoneed Kirilov,	Leoneed Kirilov, Vassil Guliashki,	
	Todor Georgiev. Multimedia	Krasimira Genova, Pasko Paskov. An	
	Classroom Including Distance	Interactive Method for Solving	
	Learning Features	Multiple Objectives Flexible Job Shop	
12. ⁰⁰ -12. ²⁰	Milana Dobrava, Fornando Laigidas	Problems (MOFJSP)	
1212.	Milena Dobreva, Fernando Loizides. Information Visualisation Skills: an	Yasen Mitev, Leoneed Kirilov.	
	Information visualisation Skills: an Initial Investigation of Industrial	Improving the quality of the Email service by evaluating the KPI	
	Demand and Educational Supply	Efficiency	
12. ²⁰ -12. ⁴⁰	Kiril Simov and Petya Osenova.	Yuri Pavlov, Rumen Andreev.	
	Knowledge Graph Extension for	Preferences and Modelling of the	
	Word Sense Annotation	Complex System "Human-Process": a	
		Machine Learning Approach	
12. ⁴⁰ -14. ⁰⁰	Lunch		

14. ⁰⁰ -14. ⁴⁵	VIRGINIO CANTONI. INTERACTIVE, TANGIBLE AND MULTISENSORY TECHNOLOGY FOR A CULTURAL HERITAGE EXHIBITION: THE BATTLE OF PAVIA			
	(INVITED TALK)			
	Hall A. Session Chair: Dimo Dimov			
14.45-15.00	Coffee break			
	PARALLEL SESSIONS:			
	SESSION 5: SIGNAL AND IMAGE	SESSION 6: ADVANCED		
	PROCESSING:	COMPUTING		
	Hall A. Session Chair: Virginio	Hall B. Session Chair: Krassimir		
00 20	Cantoni	Georgiev		
$15.^{00}$ -15. ²⁰	Petia Koprinkova-Hristova, Yurii	J. M. Sellier, I. Dimov. Quantum		
	Chirka, Volodimir Kudriashov, Kiril	Mechanics and Signed Particles, A New		
	Alexiev, V. Ivanov. Smart Feature	Formulation Has Come into Existence		
	Extraction from Acoustic Camera			
15. ²⁰ -15 ⁴⁰	Multi-Sensor Measurements	DV Inspans I Dimon I M Callier		
1515	Kiril Alexiev, Petia Koprinkova- Hristova. Accuracy Analysis of IMU	D.Y. Ivanova, I. Dimov, J. M. Sellier, Signed Particles and Quantum		
	Navigation Algorithms	Signed Particles and Quantum Similarity		
15. ⁴⁰ -16. ⁰⁰	Volodymyr Kudriashov. Multistatic	K.G. Kapanova, I.T. Dimov, J.M. Sellier.		
1310.	Reception of Non-stationary	The Signed Particle Formulation of		
	Random Wiener Acoustic Signal	Quantum Mechanics: A Parallelization		
	Kundom Wiener Reodstie Signar	Scheme		
16. ⁰⁰ -16. ²⁰	Iurii Chyrka. Interpolation of	An. Liolios, As. Liolios, A. Moropoulou,		
	acoustic field from nearby located	K. Georgiev, I. Georgiev. A		
	single source	Computational Approach for the		
		Seismic Sequences Induced Response of		
		Cultural Heritage RC Structures		
20 10		Upgraded by Ties		
16. ²⁰ -16. ⁴⁰	Atanas Nikolov, Virginio Cantoni,	Emilia Abadjieva, Valentin Abadjiev. On		
	Dimo Dimov, Andrea Abate, Stefano	the Improvement of the Bio-Robots		
	Ricciardi. Multi-Model Ear	Transmissions: Basic Elements of the		
	Database for Biometrics	Drivings and Alternative Solutions		
16. ⁴⁰ -17. ⁰⁰	Applications			
101/.	S. Ilchev, Z. Ilcheva. Modular Digital Watermarking and Corresponding			
	Steg analysis of Images on Publicly			
	Available Web Portals			
$17.^{00}$ -17. ²⁰	 20 Karina Angelieva. Decisions and Recommendations of the Council of the European Union in the area of open data, open access, and data intensive research 			
4 = 20 + 20				
$17.^{20}-17.^{30}$	CLOSING	CLOSING CEREMONY		
18. ³⁰ -20. ³⁰	ACOMIN Steering Committee Meeting			
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