Preliminary program

BIOKYBERNETIKA 2018

3st Russian-German Conference on *MultiScale BioMathematics – Coherent Modeling of Human Body System*
"Young-Talent"Workshop on *Mathematical Bio-systems Modeling*
07-09 November 2018, Lomonosov Moscow State University

Wednesday, November 7th, 2018				
10:00-10.30 **Registration**				
10:30-11:00 **Opening**		J. Mau B. Chetverushkin	Heinrich Heine University Dusseldorf, Germany;Prof.,	*Welcome and Background:* *The roots and history of «Biokybernetik»*
Session I				
11:00-12:00 Lecture		J. Mau Prof	Prof (em), Heinrich Heine University Dusseldorf, Germany	*On Identification of Effectuation Dynamics in System Function Architecture*
12:00-12:45 Lecture		E.Kurkina	Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University	*Nonlinear dynamics and spatio-temporal structures in the Lotka-Volterra model*
12:45-14:00 **Lunch break**				
14:00-15:00 Lecture		V.N. Kozlov	Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University	*On the mathematical theory of visual perception*
15:00-16:00 Lecture		S. S. Rakitko, A.Yu.Shcheglov	Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University	*The inverse problem of three coefficients recovery in a population dynamics model*

Venue: 119991 Moscow, GSP-1, Leninskie Gory, Moscow State University, 2nd Educational Building, 5th Floor, Room 526A.

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Thursday, November 8th, 2018				
Session II				
10:00-11:00 Lecture		R.Henrion	Institute for Applied Analysis and Stochastics Berlin, Germany	*Optimization problem under probabilistic constrains*
11:00-12:00 Lecture		G.Panasenko	Institute Camille Jordan, University of Lyon, Saint-Etienne, France	*Coupling of models of different dimension for flows in thin tube networks*
12:00-12:45 Lecture		S.Simakov	MIPT, Moscow, Russia	*Lumped dynamical model of the heart, the role of the heart valves and interconnection with 1D haemodynamics*
12:45-14:00 **Lunch break**				
14:00-15:00 Lecture		T. Gamilov,	Sechenov University, MIPT, Moscow, Russia	*Evaluation of the fractionated flow reserve and recruitment parameters of the model of hemodynamics.*
15:00-15:30	YT	A.Mozokhina	Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University	*Quasi-onedimensional simulation of lymph flow in the human lymphatic system.*
15:30-16:00	YT	A.Khrulenko, A. Rubina , T. Tzhaleev	Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University	*Modeling of portal hypertension*
16:00-16:30		S.Bogomolov	Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University	*A micro to macro bridge*

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Friday , November 9th, 2018				
Session III				
10:30-11:00		N. Mamaev, A. Krylov	Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University	*Adaptive Medical Image Denoising*
11:00-12:00 Lecture		Yurii N. Orlov	Keldysh Institute of Aplied Math. of RAS., Moscow	*Self-consistent stationary level and epilepsy attack indicator*
12:00-12:30		A. Khvostikov*, K. Aderghal**, J. Benois-Pineau**, A. Krylov*, G. Catheline***	** LaBRI, University of Bordeaux, Bordeaux, France *** Institut de Neurosciences Cognitives et Int´egratives d'Aquitaine, Bordeaux, France	*Alzheimer's Disease Diagnostics with CNNs*
12:30-13:00	YT	D. Vasilenko, A.Bunicheva A.Parfenov O.Panina	* Department of Computational Mathematics and Cybernetics, Lomonosov Moscow State University, Moscow, Russia	*Development of placental perfusion model*
13:00-13:30	YT	V. Ustinov	Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University	*Inverse problem of laser ektacytometry*
13:30-14:00 **Closing**				

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