MSU-BIT Joint Conference on Computational Mathematics and Control

BIT[1] and MSU[2]

[1]The School of Mathematics and Statistics, Beijing Institude of Technology
[2]The faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University

6 December 2022 – 9 December 2022,

Dec **6** ZOOM ID: **462 476 1414**;   Password: **175370**
Dec **7** ZOOM ID: **462 476 1414**;   Password: **175370**

Dec **8** ZOOM ID: **822 6486 6839**;   Password: **541377**
Dec **9** ZOOM ID: **823 2515 6847**;   Password: **662243**

Timetable (Beijing time, UTC+08:00)

Day1: Dec. 6 Host: Budak	Section "Probability Theory and Data Mining"	
13:40 – 14:00	Ilin A.V. (5min) & Tian Yubin (5min) & Ji Xia (5min)	**Opening Ceremony & Group Photo**
14:00 – 14:30	Ulyanov V.V.	Inference via randomized test statistics
14:30 – 15:00	Shestakov O.V.	Thresholding functions in the noise suppression methods based on the wavelet expansion of the signal
15:00 – 15:30	Khokhlov Yu.S.	Asymptotic bounds for buffer overflow probability in the case of heterogeneous telecommunication system traffic
15:45 – 16:15	Zakharova T.V.	Inverse problem of magnetoencephalography

Day1: Dec. 6 Host: Budak	Section "Control Theory and Optimization"	
19:00 – 19:30	Ilin A.V.	Inversion of dynamical systems with delay
19:30 – 20:00	Fursov A.S.	Neural network approach to the problem of switched linear system stabilization
20:00 – 20:30	Fomichev V.V. Vysotskiy A.O.	Cascade observers for systems with external disturbance
20:30 – 21:00	Ni Ming Kang	A class of singularly perturbed equations with discontinuous right-hand side in the critical case
21:00 – 21:30	Atamas' E.I.	Zero dynamics for time-delay systems

Day2: Dec. 7 Host: Budak	Section "Probability Theory and Data Mining"	
14:00 – 14:30	Maisuradze A.I.	Explaining Predictions of Machine Learning Models in Multivariate Time Series Analysis
14:30 – 15:00	Artemyeva L.A., Dryazhenkov A.A.	Modified two-stages gradient method for the solution of quadratic minimization problem with nonuniformly perturbed operator
15:00 – 15:30	Nikitin A.A.	Optimization of Boundary Control Produced by the Third Boundary Condition

15:45 – 16:15	Tochilin P.A.	Piecewise affine approximations for the target control problem on a finite time interval
Day2: Dec. 7 Host: Budak	**Section "Control Theory and Optimization"**	
19:00 – 19:30	Korolev V. Yu.	Bounds for the rate of convergence in the generalized R'enyi theorem
19:30 – 20:00	Kudryavtsev A.V.	On the Role of Digamma Distribution in Bayesian Balance Models
20:00 – 20:30	Shevtsova I.G.	Convergence rate estimates in the R'enyi theorem with no support constraints
20:30 – 21:00	Kholomeyeva A.A.	On boundary control problems with boundary conditions containing linear combination of derivatives
Day3: Dec. 8 Host: Zhang	**Section "Control Theory and Optimization"**	
14:00 – 14:30	Qiong Zhang	Stability of Elastic Systems with Structural Damping
14:30 – 15:00	Wen Kang	Stabilization by switching of PDEs with spatially scheduled actuators and sensors
15:00 – 15:30	Yulong Zhang	Stabilization of a rotating disk-beam system with the higher angular velocity
15:45 – 16:45	Donghua Shi	Learning from the falling cat
Day4: Dec. 9 Host: Zhang	**Section "Probability Theory and Data Mining"**	
14:00 – 14:40	Jianbin Chen	Adaptive order-of-addition experiments via the quick-sort algorithm
14:40 – 15:20	Yiwei Fan	Sparse concordance-based ordinal classification
15:20 – 16:00	Dianpeng Wang	Bayesian sequential design for sensitivity experiments with hybrid responses
16:00 – 16:40	Ye Zhang	Stochastic asymptotical regularization for inverse problems
16:40 – 16:50		**Closing Ceremony**