

DECT 2023 Schedule

Ukrainian time: UTC + 3h (EEST)

Wednesday, October 11 th 1 st session. Chairman: Grigoriy Sklyar		
15:00 – 15:10	Welcome words from G. Zholtkevych, Dean of the School of Mathematics and Informatics of V. N. Karazin Kharkiv National University	
15:10 – 15:30	Valerii Korobov	On solving the controllability problem in the case of a positive constrained control
15:30 – 15:50	Nguyen Khoa Son	Robust exponential stability of a class of switched positive functional differential equations
15:50 – 16:10	Alexander Zuyev	Observer design for undamped distributed parameter systems with polynomial convergence
Wednesday, October 11 th 2 nd session. Chairman: Larissa Fardigola		
16:30 – 16:50	Piotr Mormul	The effective nilpotency orders in the special multi-flags
16:50 – 17:10	Abdon E. Choque-Rivero	Extended set of solutions of a bounded finite-time stabilization problem via V.I. Korobov's controllability function
17:10 – 17:30	Aleksandr Kholkin	Levels in the gap of the essential spectrum of a differential operator
17:30 – 17:50	Alexander Rezounenko	Virus dynamics model with distributed delay
Thursday, October 12 th 1 st session. Chairman: Jaroslaw Wozniak		
15:00 – 15:20	Sergey Chuiko (co-authors Peter Benner, Mykyta Popov)	Adomian decomposition method for the nonlinear boundary-value problems
15:20 – 15:40	Larissa Fardigola (co-author Kateryna Khalina)	On controllability problems for the heat equation with variable coefficients on a half-axis controlled by the Neumann boundary condition
15:40 – 16:00	Iryna Dmytryshyn	Determining the speed of rotation of the rotor in case of incomplete information about the operation of two-phase asynchronous motor
Thursday, October 12 th 2 nd session. Chairman: Grigoriy Sklyar		
16:20 – 16:40	Marcin Korzen (co-authors Grigoriy Sklyar, Jaroslaw Wozniak)	Numerical experiments with homogeneous approximation of nonlinear systems

16:40 – 17:00	Bartosz Wasilewski (co-authors Grigoriy Sklyar, Piotr Polak)	On the Riesz basis property for the infinite-dimensional delay differential equations of the neutral type
17:00 – 17:20	Mateusz Firkowski (co-author Jaroslaw Wozniak)	Problem of optimal exact observability of Timoshenko beam
17:20 – 17:40	Jekatierina Sklyar (co-authors Grigoriy Sklyar, Svetlana Ignatovich)	Problem of linearizability for non-autonomous control systems
Friday, October 13 th 1 st session. Chairman: Alexander Rezounenko		
15:00 – 15:20	Olga Nesmelova (co-authors Peter Benner, Sergey Chuiko)	The scheme for the construction of solutions for the nonlinear boundary-value problem unsolved with respect to the derivative
15:20 – 15:40	Maxim Bebiya (co-author Valerii Korobov)	On a class of finite-time stabilizing controls for nonlinear systems in a critical case
15:40 – 16:00	Daria Andreieva (co-author Svetlana Ignatovich)	Homogeneous approximation of series of iterated integrals and time optimality
16:00 – 16:20	Yurii Romashov (co-authors Irina Kolupaieva, Igor Nevliudov)	Mathematical maintenance to design the automated control systems in agreement with the circular economy principles
Friday, October 13 th 2 st session. Chairman: Piotr Polak		
16:40 – 17:00	Aleksey Piven' (co-author Sergey Gefter)	Partial differential equations in the module of copolynomials in several variables over a commutative ring
17:00 – 17:20	Daria Diachenko (co-author Sergey Chuiko)	Nonlinear autonomous boundary value problem for differential algebraic system
17:20 – 17:40	Kateryna Shevtsova (co-author Sergey Chuiko)	Approximations of the solutions of nonlinear matrix equations using the Newton-Kantorovich method
17:40 – 18:00	Tetiana Revina (co-author Valerii Korobov)	On perturbations range in the feedback synthesis problem for robust linear system