

XXXVII International Conference
PROBLEMS OF DECISION MAKING UNDER UNCERTAINTIES 2022 (PDMU- 2022)
November 23 – 25, 2022

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(The schedule of presentations may change due to power outages in Ukraine caused by the war)

November 23, 2022 (Wednesday)		
Kyiv time 	Baku time 	OPEN CEREMONY, SECTIONAL SESSION
13 ⁰⁰ - 13 ¹⁰	15 ⁰⁰ - 15 ³⁰	J. Jafarov (<i>rector of Azerbaijan State Pedagogical University</i>), O. Nakonechnyi (<i>head of International Program Committee</i>), N. Ibragimov (<i>rector of Lankaran State University</i>), R. Rasulov (<i>director of Sheki branch of Azerbaijan State Pedagogical University</i>) Greetings
13 ³⁰ - 13 ⁵⁰	15 ³⁰ - 15 ⁵⁰	Gadjiev T. S. (Azerbaijan) Nonlinear elliptic equations with BMO coefficients in nonsmooth domains in generalized Morrey spaces
13 ⁵⁰ - 14 ¹⁰	15 ⁵⁰ - 16 ¹⁰	Martsenyuk V. (Poland) Competency-based challenges of applied artificial intelligence: project FAAI
14 ¹⁰ - 14 ³⁰	16 ¹⁰ - 16 ³⁰	Aida-zade K.R., Aliyev S.A. (Azerbaijan) Control of a dynamic object with inexactly given parameters and initial conditions
14 ³⁰ - 14 ⁵⁰	16 ³⁰ - 16 ⁵⁰	Bratiichuk M., Usar I. (Poland, Ukraine) Optimization problems for retrial queues with changeable service rate
14 ⁵⁰ - 15 ¹⁰	16 ⁵⁰ - 17 ¹⁰	Mashchenko S.O. (Ukraine) On minimums of fuzzy numbers with fuzzy sets of operands
15 ¹⁰ - 15 ³⁰	17 ¹⁰ - 17 ³⁰	Bagrationi I. O. (Georgia) On the moral factors of political risk in decision-making process
15 ³⁰ - 15 ⁵⁰	17 ³⁰ - 17 ⁵⁰	Gasimov Y., Pashayev A. (Azerbaijan) Development of the fuzzy algorithms for the risk assessment
15 ⁵⁰ - 16 ¹⁰	17 ⁵⁰ - 18 ¹⁰	Afandiyeva A.T. (Azerbaijan) Econometric analysis of sustainable development indicators
16 ¹⁰ - 16 ³⁰	18 ¹⁰ - 18 ³⁰	Chabanyuk Ya, Nikitin A., Khimka U., Stepaniak O. (Poland, Ukraine) The diffusion transfer process in the control task
16 ³⁰ - 16 ⁵⁰	18 ³⁰ - 18 ⁵⁰	Lyubchyk L., Grinberg G., Yamkovyi K. (Ukraine) Multiple criteria decision making based on semi-supervised preference learning
16 ⁵⁰ - 17 ¹⁰	18 ⁵⁰ - 19 ¹⁰	Voina O. (Ukraine) Analytical-computer modeling in inventories control
17 ¹⁰ - 17 ³⁰	19 ¹⁰ - 19 ³⁰	Beyko I.V. (Ukraine) Optimization problems in playing sports

November 24, 2022 (Thursday)

Kyiv time 	Baku time 	SECTIONAL SESSIONS
13 ⁰⁰ - 13 ¹⁵	15 ⁰⁰ - 15 ¹⁵	Mirzayev F.E., Guliyev R.M., Shabiyeva Z.Y. (Azerbaijan) The importance of a new specialty with applied mathematics
13 ¹⁵ - 13 ³⁰	15 ¹⁵ - 15 ³⁰	Aliyev N., Fatullayeva L., Orujova R. (Azerbaijan) One boundary problem for equation Cauchy-Riemann in unit square
13 ³⁰ - 13 ⁴⁵	15 ³⁰ - 15 ⁴⁵	Mammadzade A.M. (Azerbaijan) Solution of Cauchy problem of discrete multiplicative-poverative-additive derivative third-order equation
13 ⁴⁵ - 14 ⁰⁰	15 ⁴⁵ - 16 ⁰⁰	Kerimova M. N. (Azerbaijan) Investigation of the solution of the boundary value problem for elliptic parabolic equations
14 ⁰⁰ - 14 ¹⁵	16 ⁰⁰ - 16 ¹⁵	Semenov V., Denysov S., Kharkov O. (Ukraine) About weak convergence of the operator extrapolation method
14 ¹⁵ - 14 ³⁰	16 ¹⁵ - 16 ³⁰	Aliyev N.A., Ahmadov R.H. (Azerbaijan) Solution of the Cauchy problem for ν order ordinary differential equation with a continuously varying order of derivative
14 ³⁰ - 14 ⁴⁵	16 ³⁰ - 16 ⁴⁵	Argyros I.K., Shakhno S.M., Yarmola H.P. (USA, Ukraine) On the convergence analysis of Kurchatov-type methods
14 ⁴⁵ - 15 ⁰⁰	16 ⁴⁵ - 17 ⁰⁰	Senio P.S. (Ukraine) Functional interval of a function with known restrictions of its derivative by monotonic functions
15 ⁰⁰ - 15 ¹⁵	17 ⁰⁰ - 17 ¹⁵	Ivankiv O., Melnychyn A., Kovalyk M. (Ukraine) Forecasting of traffic congestion using simulation and artificial intelligence
15 ¹⁵ - 15 ³⁰	17 ¹⁵ - 17 ³⁰	Rasulov R. (Azerbaijan), Sinsoysal B. (Turkey) Numerical solution of the isentropic and adiabatic Euler system for political gases in a class of discontinuous functions
15 ³⁰ - 15 ⁴⁵	17 ³⁰ - 17 ⁴⁵	Yeşim A., Onur U., Nuriyev U. (Turkey) Detecting critical nodes in adversary networks using particle swarm optimization
15 ⁴⁵ - 16 ⁰⁰	17 ⁴⁵ - 18 ⁰⁰	Bavunoğlu H. (Turkey) Collaborative layered swarm motion planning architecture under dynamic environment uncertainty
16 ⁰⁰ - 16 ¹⁵	18 ⁰⁰ - 18 ¹⁵	Kamaç N.E., Sezer B.B., Nuriyev U. (Turkey) Towards 5G-enabled smart cities: a novel blockchain-based framework for secure smartcity applications
16 ¹⁵ - 16 ³⁰	18 ¹⁵ - 18 ³⁰	Ferzullazadeh A.G. (Azerbaijan) The multiplicity of zeros of the characteristic function of the boundary value problem of the Dirac operator
16 ³⁰ - 16 ⁴⁵	18 ³⁰ - 18 ⁴⁵	Ibrahimov N.S., Yagub G., Farzaliyeva U.M. (Azerbaijan, Turkey) The finite-difference method for solving the optimal control problem for the linear nonstationary quasi optics equation with a special gradient term
16 ⁴⁵ - 17 ⁰⁰	18 ⁴⁵ - 19 ⁰⁰	Slabospitsky A.S. (Ukraine) On-line non-stationary parameter identification by the least squares method with variable forgetting factor and least deviations from 'attraction' points for non-linear dynamic objects under non-classical assumptions
17 ⁰⁰ - 17 ¹⁵	19 ⁰⁰ - 19 ¹⁵	Sharapov M. (Ukraine) The quality of knowledge. Statistical approach
17 ¹⁵ - 17 ³⁰	19 ¹⁵ - 19 ³⁰	Khudiakov A. (Ukraine) Using the internet of things in hil simulation

November 25, 2022 (Friday)

Kyiv time 	Baku time 	SECTIONAL SESSIONS
13 ⁰⁰ - 13 ¹⁵	15 ⁰⁰ - 15 ¹⁵	Tymashov O. (Ukraine) The wireless infrastructure of the system based on ZigBee networks for hil simulation
13 ¹⁵ - 13 ³⁰	15 ¹⁵ - 15 ³⁰	Aliyev E., Rasulov M., Xalilov M. (Azerbaijan) Numerical solution of initial-boundary value problem for one-dimensional gas dynamics in the class of discontinuous functions
13 ³⁰ - 13 ⁴⁵	15 ³⁰ - 15 ⁴⁵	Yarova O.A., Yeleyko Ya.I. (Ukraine) The mixture of distributions and the influence of the external environment
13 ⁴⁵ - 14 ⁰⁰	15 ⁴⁵ - 16 ⁰⁰	Aliyev S.A., Ibadova I.A. (Azerbaijan) Age dependent branching processes
14 ⁰⁰ - 14 ¹⁵	16 ⁰⁰ - 16 ¹⁵	Niftullayeva S. (Azerbaijan) On a problem for the hyperbolic type equation with non-local and global conditions
14 ¹⁵ - 14 ³⁰	16 ¹⁵ - 16 ³⁰	Nurieva S. A. (Azerbaijan) Criterion for the basicity of system of exponents with a linear phase in grand-Sobolev spaces
14 ³⁰ - 14 ⁴⁵	16 ³⁰ - 16 ⁴⁵	Symonov D. A. (Ukraine) Markov chain in supply chain management
14 ⁴⁵ - 15 ⁰⁰	16 ⁴⁵ - 17 ⁰⁰	Kotelnikova V., Iksanov A. (Ukraine) Small counts in nested Karlin's occupancy scheme generated by discrete Weibull-like distributions
15 ⁰⁰ - 15 ¹⁵	17 ⁰⁰ - 17 ¹⁵	Aleskerzadeh T. T. (Azerbaijan) Semantic and syntactic aspects of model building
15 ¹⁵ - 15 ³⁰	17 ¹⁵ - 17 ³⁰	Tymofijeva N. (Ukraine) Use of subclasses of solvable problems to evaluate of the accuracy of the algorithm
15 ³⁰ - 15 ⁴⁵	17 ³⁰ - 17 ⁴⁵	Sokhan D. (Ukraine) Using the industrial internet of things (IIOT) in hil simulation
15 ⁴⁵ - 16 ⁰⁰	17 ⁴⁵ - 18 ⁰⁰	Dutsko R. (Ukraine) Use of artificial intelligence in biological systems
16 ⁰⁰ - 16 ¹⁵	18 ⁰⁰ - 18 ¹⁵	Kravchuk O., Kriukova G. (Ukraine) Regularization by means of denoising in imaging
16 ¹⁵ - 16 ³⁰	18 ¹⁵ - 18 ³⁰	Romanenko V., Kantsedal H., Milyavsky Y. (Ukraine) Identification of cognitive maps weights in the multirate model of cryptocurrency application
16 ³⁰ - 16 ⁴⁵	18 ³⁰ - 18 ⁴⁵	Lysetskyi T.B., Yeleyko Ya.I. (Ukraine) Limit laws for total progeny in multitype age-dependent processes
16 ⁴⁵ - 17 ⁰⁰	18 ⁴⁵ - 19 ⁰⁰	Dzhoha A., Rozora I. (Ukraine) The upper confidence bound strategy for multi-armed bandit problem
17 ⁰⁰ - 17 ¹⁵	19 ⁰⁰ - 19 ¹⁵	Ivanov S.M., Kostrubina M.S. (Ukraine) Parametric identification of the SIR model of the spread of epidemics
17 ¹⁵ - 17 ³⁰	19 ¹⁵ - 19 ³⁰	Ivanov S.M., Subotina A.H. (Ukraine) Prediction of the level of CO ₂ in Kyiv based on the NARMAX model