

XXXIX International Conference
PROBLEMS OF DECISION MAKING UNDER UNCERTAINTIES 2024 (PDMU- 2024)
September 9 – 10, 2024

On-line*: Join Zoom Meeting

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Meeting ID: 893 8699 7140

Passcode: 6Jsj20

September 9, 2024 (Monday)		
CET time	OPEN CEREMONY, SECTIONAL SESSION	
	OFF-LINE SESSION	
10 ⁰⁰ - 10 ²⁰	Professor O. Nakonechnyi (<i>Chairman of International Program Committee</i>), Associate professor M. Sedlačik (<i>Vice-rector of the University of Defence</i>), Associate professor J. Odehnal (<i>Vice-dean of the Faculty of Military Leadership</i>) Greetings	
10 ²⁰ - 10 ⁴⁰	Suraj Z., Grochowalski P., Drygaś P. Hybrid methods for modeling knowledge-based systems using PNeS	
10 ⁴⁰ - 11 ⁰⁰	Martsenyuk V., Soldatkin O., Klos-Witkowska A., Sverstiuk A., Berketa K. Study on the operational stability of a lactate biosensor: modeling, parameter identification and stability evaluation	
11 ⁰⁰ - 11 ²⁰	Romanenko V., Miliavskiy Yu., Kantsedal H. Constrained disturbances suppression for multirate impulse processes in cognitive maps of cryptocurrency applications	
11 ²⁰ - 11 ⁴⁰	Shakhno S.M., Yarmola H.P. On the Newton-Broyden method for solving systems of the nonlinear equations	
11 ⁴⁰ - 12 ⁰⁰	Benner P., Chuiko S., Nesmelova O. Conditions of solvability of nonlinear boundary value problems unsolved with respect to the derivative	
12 ⁰⁰ - 12 ²⁰	Aliyev S., Khalilov V.S. On convergence of Bellman –Harris processes to continuous state space branching process	
12 ²⁰ - 12 ⁴⁰	Bratiichuk M., Usar I. Optimal two-threshold strategy for a finite retrial queue	
12 ⁴⁰ - 13 ⁰⁰	Chabanyuk Ya.M., Khimka U.T., Lytvyn A.A., Semenyuk S.A., Chepurko R.A., Stepaniak O. The control problem for random process	
13 ⁰⁰ - 14 ⁰⁰	Lunch	
ON-LINE SESSION		
CET time	Kyiv time	
14 ⁰⁰ - 14 ¹⁵	15 ⁰⁰ - 15 ¹⁵	Grochowalski P., Suraj Z., Drygaś P. Petri net system in practice
14 ¹⁵ - 14 ³⁰	15 ¹⁵ - 15 ³⁰	Bagratioti I. O. The impact of value theory on the decision-making in digital education
14 ³⁰ - 14 ⁴⁵	15 ³⁰ - 15 ⁴⁵	Hnatiienko O., Hnatiienko H. The problem of ensuring the functional stability of organizational systems on ordinary scale under conditions of uncertainty

14 ⁴⁵ - 15 ⁰⁰	15 ⁴⁵ - 16 ⁰⁰	Gadjiev T.S. The apriori estimates and regularity of solutions the nonlinear elliptic equations in generalized Morrey spaces
15 ⁰⁰ - 15 ¹⁰	16 ⁰⁰ - 16 ¹⁰	Beyko I.V. Optimization problems in game processes
15 ¹⁰ - 15 ²⁰	16 ¹⁰ - 16 ²⁰	Bomba A.Ya., Turbal Y.V., Turbal M.Y., Smirnov D.A., Turbal B.Y. Forecasting methods based on polynomial extrapolation set analysis
15 ²⁰ - 15 ³⁰	16 ²⁰ - 16 ³⁰	Bychkov O., Merkulova K., Pavliukh B. Biometric identification in conditions of uncertainty of the possibility of identification
15 ³⁰ - 15 ⁴⁰	16 ³⁰ - 16 ⁴⁰	Merkulova K., Spitsyn V. Computer intensive techniques for decision making in different fields
15 ⁴⁰ - 15 ⁵⁰	16 ⁴⁰ - 16 ⁵⁰	Petrivskiy V., Bychkov O. Automated decision making trajectory building system
15 ⁵⁰ - 16 ⁰⁰	16 ⁵⁰ - 17 ⁰⁰	Pokutnyi O., Iskra O. Branching solutions for the interconnected system of Lyapunov equations with control
16 ⁰⁰ - 16 ¹⁰	17 ⁰⁰ - 17 ¹⁰	Nakonechnyi O., Zinko P., Hnatyshko M. Estimation methods in observation problems under conditions of uncertainty
16 ¹⁰ - 16 ²⁰	17 ¹⁰ - 17 ²⁰	Boichuk O., Chuiko S., Chuiko V. Inverse problems for nonlinear boundary-value problems with delay
16 ²⁰ - 16 ³⁰	17 ²⁰ - 17 ³⁰	Kolesnikov D., Semenova N. Optimization of the investment portfolio
16 ³⁰ - 16 ⁴⁰	17 ³⁰ - 17 ⁴⁰	Zhukovska O. Making credit decisions based on Bayesian strategies
16 ⁴⁰ - 16 ⁵⁰	17 ⁴⁰ - 17 ⁵⁰	Kotelnikova V., Iksanov O. A law of the iterated logarithm for small counts in Karlin's occupancy scheme
16 ⁵⁰ - 17 ⁰⁰	17 ⁵⁰ - 18 ⁰⁰	Osmak Y. Solving the problem of jobs prioritization under limited resources for the case of a service company
17 ⁰⁰ - 17 ¹⁰	18 ⁰⁰ - 18 ¹⁰	Oficerov A. Interconnected system of Riccati operator equations
17 ¹⁰ - 17 ²⁰	18 ¹⁰ - 18 ²⁰	Pogorielov D. Estimation of parameters in economic models with generalizations
17 ²⁰ - 17 ³⁰	18 ²⁰ - 18 ³⁰	Ogurtsov M. Method of mutual authentication of UAV swarm elements under uncertainties
17 ³⁰ - 17 ⁴⁰	18 ³⁰ - 18 ⁴⁰	Drin I., Drin S., Drin Y., Lutskiv M. Non-classical boundary value problem for the heat conduction equation
17 ⁴⁰ - 17 ⁵⁰	18 ⁴⁰ - 18 ⁵⁰	Dzhalladova I., Bartash O. Modeling algorithms for responding to information about corruption in social networks in the business sphere
17 ⁵⁰ - 18 ⁰⁰	18 ⁵⁰ - 19 ⁰⁰	Dzhalladova I., Stefiienko A. Modeling response algorithms to cyber threats in critical infrastructures of the business sector

September 10, 2024 (Tuesday)

CET time	SECTIONAL SESSIONS	
	OFF-LINE SESSION	
10 ⁰⁰ - 10 ²⁰	Nakonechniy O., Zinko P., Zinko T. Guaranteed posterior estimates of solutions of operator equations	
10 ²⁰ - 10 ⁴⁰	Mashchenko S.O. On aggregation of expert assessments for a fuzzy set of decision-makers	
10 ⁴⁰ - 11 ⁰⁰	Polyakov M., Khanin I., Shevchenko G., Bilozubenko V. Intelligent data analysis in the 'knowledge economy'	
11 ⁰⁰ - 11 ²⁰	Aliev S. A., Lysetskyi T.B., Yeleyko Ya.I. Stochastic additive functionals of multitype age-dependent branching processes	
11 ²⁰ - 11 ⁴⁰	Yarova O.A. The behaviour of multidimensional renewal equation	
11 ⁴⁰ - 12 ⁰⁰	Khasaia Ia, Didmanidze I., Didmanidze D. Decision-making in a fuzzy environment: implications for educational issues	
12 ⁰⁰ - 12 ²⁰	Shkilniak O. S., Shkilniak S. S. Sequent deduction systems in transitional modal logics of partial predicates	
12 ²⁰ - 12 ⁴⁰	Nikitin A., Tsai H., Nechyporuk S. Approximate maximum likelihood estimation of a threshold Levy process	
12 ⁴⁰ - 13 ⁰⁰	Sedlačík M. Physical Fitness of the Population as a Risk Factor for Ensuring the Defensive Capacity of the Czech Republic	
13 ⁰⁰ - 14 ⁰⁰	Lunch	
CET time	Kyiv time	ON-LINE SESSION
14 ⁰⁰ - 14 ¹⁵	15 ⁰⁰ - 15 ¹⁵	Voina O. Some algorithms of vector prognostication
14 ¹⁵ - 14 ³⁰	15 ¹⁵ - 15 ³⁰	Shcherbatyy M. Enhancing warfare strategies through Lanchester-type modeling and optimization
14 ³⁰ - 14 ⁴⁰	15 ³⁰ - 15 ⁴⁰	Tymofieva N.K. Solving artificial intelligence problems using combinatorics
14 ⁴⁰ - 14 ⁵⁰	15 ⁴⁰ - 15 ⁵⁰	Bakhrushyn V. Validity of evaluation indicators in complex educational systems
14 ⁵⁰ - 15 ⁰⁰	15 ⁵⁰ - 16 ⁰⁰	Bakhrushyn O. The use of intelligent computing for the analysis of educational data
15 ⁰⁰ - 15 ¹⁰	16 ⁰⁰ - 16 ¹⁰	Kolba K.T., Prytula M.M. Exact solutions of one nonlinear dynamical system
15 ¹⁰ - 15 ²⁰	16 ¹⁰ - 16 ²⁰	Vavryk R., Sokolovskyy Y. One method for estimating population displacement
15 ²⁰ - 15 ³⁰	16 ²⁰ - 16 ³⁰	Peregontsev O. Wireless sensor networks for embedded systems. Overview of embedded systems
15 ³⁰ - 15 ⁴⁰	16 ³⁰ - 16 ⁴⁰	Dutsko R. Artificial intelligence is a key technology of the fourth industrial revolution
15 ⁴⁰ - 15 ⁵⁰	16 ⁴⁰ - 16 ⁵⁰	Rozora I.V., Melnyk A. Statistical methods for impulse response function estimation in linear systems
15 ⁵⁰ - 16 ⁰⁰	16 ⁵⁰ - 17 ⁰⁰	Koval V.V., Lysenko V.P., Samkov O.V., Vakas V.I., Yanitskyi I.Ya., Piskun O.M., Kulesh O.V.

		Resilience of synchronization means of electrical networks and telecommunication systems under the conditions of the military state
16 ⁰⁰ - 16 ¹⁰	17 ⁰⁰ - 17 ¹⁰	Drebot A. Mixture of Hidden Markov Models for data analysis
16 ¹⁰ - 16 ²⁰	17 ¹⁰ - 17 ²⁰	Luzan A. Development and implementation of a large language model assistant for mitigating cognitive biases in group decision-making
16 ²⁰ - 16 ³⁰	17 ²⁰ - 17 ³⁰	Khudiakov A. Harnessing the industrial internet of things (IIOT) for advanced hardware-in-the-loop (HIL) simulation and digital twin optimization
16 ³⁰ - 16 ⁴⁰	17 ³⁰ - 17 ⁴⁰	Tupalo Y. Misuse of artificial intelligence for cyber attacks and counters data attacks in modern information systems
16 ⁴⁰ - 16 ⁵⁰	17 ⁴⁰ - 17 ⁵⁰	Samoilov S. Methods and algorithms of artificial intelligence in mobile medical complexes
16 ⁵⁰ - 17 ⁰⁰	17 ⁵⁰ - 18 ⁰⁰	Sihaiev I. Branching of solutions in the system of kinetic reactions
17 ⁰⁰ - 17 ¹⁰	18 ⁰⁰ - 18 ¹⁰	Galkin O., Anikanov O. Google Chrome browser extension for DXtrade trading platform for Forex
17 ¹⁰ - 17 ²⁰	18 ¹⁰ - 18 ²⁰	Pylypenko A. Influence of explainable AI on the architecture of text classification models
17 ²⁰ - 17 ³⁰	18 ²⁰ - 18 ³⁰	Stetsenko I., Tretiakov Y., Vergunova I. The problem of aggregation, processing and analysis of internet traffic
17 ³⁰ - 17 ⁴⁰	18 ³⁰ - 18 ⁴⁰	Vasyliiev O. Modeling the movement of elements with memory in an active environment
17 ⁴⁰ - 17 ⁵⁰	18 ⁴⁰ - 18 ⁵⁰	Fil B. AI as an expert in decision making
17 ⁵⁰ - 18 ⁰⁰	18 ⁵⁰ - 19 ⁰⁰	Cheherst I.R. Machine learning models for decision-making under uncertainty: tracking sanction violations amidst the russian invasion of Ukraine

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