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 (*Chairman of International Program Committee*),** Associate professor **M. Sedlačík** (***Vice-rector of the University of Defence***), Associate professor **J. Odehnal** (***Vice-dean of the Faculty of Military Leadership***) 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., Kłos-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., Miliavskyi 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}	**Bagrationi 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}	**Petrivskyi 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 bihaviour 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}	**Vasyliev 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