

**Program
of the 5th International Conference
on Computer Linguistics and Intelligent Systems**

April 22nd 2021

10.00 – 10.40

Conference Opening

Session Chairs: Nataliia Sharonova and Yevhen Kupriianov

Zoom meeting:

<https://us02web.zoom.us/j/85366465839?pwd=K05OdmpwT1FvWmY4VDVMT3VHanh2Zz09>

Conference ID: 853 6646 5839

Password: 4uznWn

10.00 – 10.10	Prof., Dr. Nataliia Sharonova <i>National Technical University “Kharkiv Polytechnic Institute”</i>
10.10-10.20	Prof., Dr. Mykhailo Godlevskiy <i>National Technical University “Kharkiv Polytechnic Institute”</i>
10.20-10.30	Univ.-Prof. Dipl.-Ing. Dr. Andreas Bollin <i>Institute for Computer Science Didactics</i>
10.30-10.40	Ao.Univ.-Prof.I.R. Mag. Dr. Günther Fliedl <i>Institut für Artificial Intelligence und Cybersecurity</i>
10.40 – 10.50	
BREAK	
10.50 – 12.00	
Plenary Section	
Session Chairs: Nataliia Sharonova and Yevhen Kupriianov	
Zoom meeting:	
https://us04web.zoom.us/j/76370992518?pwd=TGpiRW1NK015NlZJZUU1TStrVis2dz09	
Meeting ID: 763 7099 2518	
Passcode: 4fMLc4	
11.00 – 11.20	Volodymyr Shyrovkov <i>“Accuracy” vs “Unambiguity” in linguistics</i>
11.20 – 11.40	Thierry Hamon <i>Analysis of user exchanges on Health Online Fora: User profile detection</i>
11.40 – 12.00	Yevgeniy Bodyanskiy, Alina Shafronenko and Iryna Klymova <i>Adaptive recovery of distorted data based on credibilistic fuzzy clustering approach</i>
12.00 – 13.00	
BREAK	

13.00 – 16.30

Session 1. Knowledge-oriented Systems

Session Chairs: Olga Kanishcheva and Zoia Kochuieva

Join Zoom meeting

<https://us04web.zoom.us/j/76476885604?pwd=ekVEc3FVdGZhVDBqOVhudXFrbUFBZz09>

Conference ID: 764 7688 5604

Password: CNAP7i

13.00 – 13.40	<p>Gennady Shepelev and Nina Khairova <i>Collective risk estimating method for comparing poly-interval objects in intelligent systems</i></p> <p>Dmytro Sitnikov, Polina Sytnikova and Andrii Kovalenko <i>Methods of eliminating features from linguistic equations</i></p> <p>Igor Shubin <i>Development of conjunctive decomposition tools</i></p> <p>Oleksii Kudryk, Oleg Bisikalo, Yuliia Oleksii and Serhii Radio <i>Intelligent information system for predicting chemicals with interactive possibilities</i></p> <p>Iryna Gruzdo, Iryna Kyrychenko, Glib Tereshchenko and Nadiya Shanidze <i>Metrics applicable for evaluating software at the design stage</i></p>
	<p style="text-align: center;">Coffee break</p>
13.50 – 14.30	<p>Victor Chumakevych, Ivan Dyyak, Victoria Chumakevych, Igor Puleko and Vadym Ptashnyk <i>Approach to solve the problems of filtration and extrapolation in the construction of functionally stable stochastic systems with delay</i></p> <p>Maksym Makaruk, Alexei Nazarov, Igor Shubin and Nadezhda Shanidze <i>Knowledge representation method for object recognition in nonlinear radar systems</i></p> <p>Ievgen Sidenko, Tetiana Misiuk, Galyna Kondratenko and Yuriy Kondratenko <i>Objects segmentation in augmented reality environment</i></p> <p>Nataliya Boyko and Andriy Pytel <i>Application of genetic algorithms for optimization of salesman's tasks and their modeling by sequential selection</i></p> <p>Lesia Mochurad <i>Optimization of regression analysis by conducting parallel calculations</i></p>
	<p style="text-align: center;">Lunch</p>
15.00 – 15.40	<p>Ignat Blazhko, Tetiana Kovaliuk, Nataliya Kobets and Tamara Tielysheva <i>The multi-pattern matching with online user requests for determining browser capabilities</i></p> <p>Andrii Vasyliuk, Taras Basyuk <i>Construction features of the industrial environment control system</i></p>

	<p>Alexander Shportko and Veronika Postolatii <i>Development of predictors to increase the efficiency of progressive hierarchic context-independent compression of images without losses</i></p> <p>Volodymyr Burdaiev <i>On one approach to building a temporal model of the knowledge base</i></p> <p>Alina Petrushka and Maria Komova <i>Negative citing: scenario analysis of inaccurate evaluation of scientific content</i></p>
	Coffee break
15.50 – 16.30	<p>Vasyl Lytvyn, Olesya Pashchetnyk, Oleg Klymovych, Leonid Polishchuk, Ihor Kolb, Yevhen Burov and Victoria Vysotska <i>Assessment of the hydro-meteorological conditions impact on the combat troops operations preparation and conduct in the geo-information subsystem of the automated battlefield management system</i></p> <p>Olesya Pashchetnyk, Vasyl Lytvyn, Vyacheslav Zhyvchuk, Leonid Polishchuk, Victoria Vysotska, Zoriana Rybchak and Yulia Pukach <i>The ontological decision support system composition and structure determination for commanders of land forces formations and units in Ukrainian armed forces</i></p> <p>Yurii Matseliukh, Myroslava Bublyk and Victoria Vysotska <i>Development of intelligent system for visual passenger flows simulation of public transport in smart city based on neural network</i></p> <p>Myroslava Bublyk, Volodymyr Mykhailov, Yurii Matseliukh, Tetiana Pihniak, Andrii Selskyi and Igor Grybyk <i>Change management in R&D-quality costs in challenges of the global economy</i></p> <p>Volodymyr Korolov, Olha Korolova, Igor Milkovich, Yaroslav Zaiets, Viacheslav Zhyvchuk, Vasyl Lytvyn and Myroslava Bublyk <i>Information-reference system creation prerequisites for the ground forces identification on the battlefield according to NATO standards</i></p>
<p>13.00 – 16.30</p> <p>Session 2. Applied Intelligent Systems</p> <p>Session Chairs: Svitlana Petrasova and Oksana Ivashchenko</p>	
<p>Join Zoom meeting:</p> <p>https://us04web.zoom.us/j/5716961136?pwd=K2tRQUJpa3RUU1lkY0VFNlBxb3J3dz09</p> <p>Meeting ID: 571 696 1136</p> <p>Password: 333333</p>	
13.00 – 13.40	<p>Volodymyr Sokol, Mariia Bilova, Andrii Druzhynin, Nikita Cherkun and Ivan Perepelytsia <i>An adaptive algorithm for effective selection of training content for IT professionals</i></p> <p>Igor Shubin, Andrii Kozyriev, Volodymyr Liashik and Grigorii Chetverykov <i>Methods of adaptive knowledge testing based on the theory of logical networks</i></p>

	<p>Serhii Lienkov, Sergii Gakhovych, Igor Tolok, Genadiy Zhyrov and Valentyn Bakhvalov <i>An option of building the distance learning system with artificial intelligence elements</i></p> <p>Olha Pronina and Olena Piatykop <i>The decision support system education career choice using fuzzy model</i></p>
	Coffee break
13.50 – 14.30	<p>Oleksandr Romanovskyi, Nina Pidbutska and Anastasiia Knysch <i>Elomia chatbot: the effectiveness of artificial intelligence in the fight for mental health</i></p> <p>Rostyslav Yurynets, Zoryna Yurynets, Mykola Denysenko, Ivanna Myshchyshyn and Andriy Pekhnyk <i>The influence of educational competencies of the staff on the efficiency of hotel companies in the tourism sector</i></p> <p>Andrii Yarovyi and Dmytro Kudriavtsev <i>Method of multi-purpose text analysis based on a combination of knowledge bases for intelligent chatbot</i></p> <p>Yelyzaveta Meleshko, Mykola Yakymenko and Serhii Semenov <i>A method of detecting bot networks based on graph clustering in the recommendation system of social network</i></p> <p>Oksana Pichugina <i>Attributed networks formation models with application in Social Network Analysis</i></p>
	Lunch
15.00 – 15.40	<p>Andrii Kopp, Dmytro Orlovskyi and Sergey Orekhov <i>An approach and software prototype for translation of natural language business rules into database structure</i></p> <p>Iryna Spivak, Svitlana Krepych, Oleksandr Fedorov and Serhii Spivak <i>Approach to recognizing of visualized human emotions for marketing decision making systems</i></p> <p>Natalija Sharonova, Iryna Kyrychenko and Glib Tereshchenko <i>Application of Big Data methods in e-learning systems</i></p> <p>Sergey Orekhov, Henadii Malyhon, Nataliia Stratiienko and Tetiana Goncharenko <i>Software development for semantic kernel forming</i></p> <p>Yevhen Bodnia and Mariia Kozulia <i>Web application system of handwritten text recognition</i></p>
	Coffee break

15.50 – 16.30	<p>Liubov Halkiv, Oleh Karyy, Ihor Kulyniak, Yaroslav Kis and Anastasiia Tsapulych <i>The national system of higher education and the state order for its services as activators of the development of IT entrepreneurship</i></p> <p>Nadiia Pasiaka, Yulia Romanyshyn, Svitlana Chupakhina, Mariia Oliinyk and Mykola Pasiaka <i>Activation of the educational process by changing the curriculum in higher school</i></p> <p>Zhanna Myna and Tetiana Bilushchak <i>Social networks as tools to promote the majors of higher education institutions during the pandemic</i></p> <p>Tetiana Bilushchak and Ivan Bratus <i>Teaching in the Internet environment against the background of COVID-19: integration of video content into e-learning</i></p> <p>Oksana Oborska, Vasyl Andrunyk, Liliya Chyrun, Ruslan Hasko, Anatolii Vysotskyi, Solomiia Mushasta, Oksana Petruchenko and Iryna Shakleina <i>The intelligent system development for psychological analysis of the person's condition</i></p>
<p>13.00 – 16.30</p> <p>Session 3. Natural Language Processing</p> <p>Session Chair: Nina Khairova and Anastasiia Kolesnyk</p>	
<p>Join Zoom meeting</p> <p>https://us04web.zoom.us/j/78892188769?pwd=S1IFYmVBODINMFlkSFNXKzhnVVJQdz09</p> <p>Meeting ID: 788 9218 8769</p> <p>Password: 3c3hE2</p>	
13.00 – 13.40	<p>Henning Schöpper, Kersten Wolfgang <i>Using natural language processing for supply chain mapping: a systematic review of current approaches</i></p> <p>Dmytro Lande, Oleh Dmytrenko <i>Using part-of-speech tagging for building networks of terms in legal sphere</i></p> <p>Mamata Das, Selvakumar K. and Pja Alphonse <i>A comparative study on TF-IDF feature weighting method and its analysis using unstructured dataset</i></p> <p>Nina Khairova, Anastasiia Kolesnyk, Orken Mamyrbayev, Galiya Ybytayeva and Yuliia Lytvynenko <i>Automatic multilingual ontology generation based on texts focused on criminal topic</i></p> <p>Yuliia Hlavcheva, Olga Kanishcheva, Maryna Vovk and Maksym Glavchev <i>Identification of the author's idea based on the modified TextRank method</i></p>
<p>Coffee break</p>	

13.50 – 14.30	<p>Nataliia Kunanets, Yurii Oliinyk, Dmytro Myhal, Khrystyna Shunevych, Antonii Rzhеuskyi, and Yuriy Shcherbyna <i>Enhanced LSA method with Ukraine language support</i></p> <p>Oleksii V. Shatalov and Nataliya V. Ryabova <i>Towards Russian text generation problem using OpenAI’s GPT-2</i></p> <p>Kyrylo Smelyakov, Anastasiya Chupryna, Dmytro Darahan and Serhii Midina <i>Effectiveness of modern text recognition solutions and tools for common data sources</i></p> <p>Marta Karp, Natalia Kunanets and Yuliia Kucher <i>Meiosis and litotes in The Catcher in the Rye by Jerome David Salinger: text mining</i></p> <p>Olena Kuropiatnyk and Viktor Shynkarenko <i>Automation of template formation to identify the structure of natural language documents</i></p>
	Lunch
15.00 – 15.40	<p>Oleg Krupii, Kostiantyn Kasian <i>A neural network-based study of the performance of a developed foreign language teaching system</i></p> <p>Dmytro Nazarenko, Iryna Afanasieva, Nataliia Golian and Vira Golian <i>Investigation of the deep learning approaches to classify emotions in texts</i></p> <p>Alla Taran <i>Terminology of computational linguistics in terms of indexing and information retrieval in the system "iSybislaw"</i></p> <p>Larysa Savytska, Nataliya Vnukova, Iryna Bezugla, Vasyl Pyvovarov and M. Turgut Sübay <i>Using Word2vec technique to determine semantic and morphologic similarity in embedded words of the Ukrainian Language</i></p> <p>Eugene Panferov <i>A next generation data language proposal</i></p>
	Coffee break
15.50 – 16.30	<p>Zoia Kochuieva, Natalia Borysova, Karina Melnyk and Dina Huliieva <i>Usage of sentiment analysis to tracking public opinion</i></p> <p>Olesia Barkovska, Daria Pyvovarova, Vladyslav Kholiev, Heorhii Ivashchenko and Dmytro Rosinskiy <i>Information object storage model with accelerated text processing methods</i></p> <p>Mykola Sazhok, Anna Poltyeva, Valentyna Robeiko, Ruslan Seliukh and Dmytro Fedoryn <i>Punctuation restoration for Ukrainian broadcast speech recognition system based on bidirectional recurrent neural network and word embeddings</i></p> <p>Victoria Vysotska, Svitlana Holoshchuk and Roman Holoshchuk <i>A comparative analysis for English and Ukrainian texts processing based on</i></p>

	<p><i>semantics and syntax approach</i></p> <p>Kateryna Tymoshenko, Victoria Vysotska, Oksana Kovtun, Roman Holoshchuk and Svitlana Holoshchuk</p> <p><i>Real-Time Ukrainian Text Recognition and Voicing</i></p>
<p>13.00 – 16.30</p> <p>Session 4. Corpus Technologies, Ontologies and Computer Lexicography</p> <p>Session Chairs: Yevhen Kupriianov and Natalia Borysova</p>	
<p>Join Zoom meeting:</p> <p>https://us04web.zoom.us/j/76370992518?pwd=TGpiRW1NK015NIZJZUU1TStrVis2dz09</p> <p>Meeting ID: 763 7099 2518</p> <p>Passcode: 4fMLc4</p>	
13.00 – 13.40	<p>Yevhen Kupriianov, Iryna Ostapova, Volodymyr Shyrokov and Mykyta Yablochkov</p> <p><i>Digital toolkit to develop research potential of explanatory dictionary (Case of Spanish Language Dictionary)</i></p> <p>Olga Cherednichenko, Olga Kanishcheva</p> <p><i>Readability evaluation for Ukrainian medicine corpus (UKRMED)</i></p> <p>Yevhen Burov</p> <p><i>Knowledge based situation awareness process based on ontologies</i></p> <p>Alla Luchyk, Oksana Taran, Oleksandra Palchevska, Natalia Sharmanova, Ganna Demydenko</p> <p><i>Corpus-driven approach to Ukrainian e-anecdotes study</i></p> <p>Vasyl Starko</p> <p><i>Implementing semantic annotation in a Ukrainian corpus</i></p>
<p>Coffee break</p>	
13.50 – 14.30	<p>Hanna Sytar, Oleh Vietrov and Vladyslava Diachenko</p> <p><i>Synonymizer of the Ukrainian language: stage of creation, features of database update and software implementation</i></p> <p>Olena Andrushenko</p> <p><i>On marking NPs by exclusive only in EEBO Corpus: syntactic and information structural considerations</i></p> <p>Alona Dorozhynska</p> <p><i>Formal model of explanatory trilingual terminology dictionary</i></p> <p>Nataliia Lototska</p> <p><i>Statistical Research of the colour component ЧОРНИЙ (BLACK) in R. Ivanychuk's text corpus</i></p> <p>Viktor Hryhorovych</p> <p><i>Construction of semantic metric for measuring the distance between ontology concepts</i></p>
<p>Lunch</p>	

15.00 – 15.40	<p>Andriy Lutskiv, Roman Lutsyshyn <i>Corpus-based translation automation in adaptable corpus tool translation module</i></p> <p>Taras Basyuk, Andrii Vasyliuk <i>Approach to a subject area ontology visualization system creating</i></p> <p>Viktor Shynkarenko and Larysa Zhuchyi <i>Ontological harmonization of railway transport information systems</i></p> <p>Oksana Tyshchenko and Vladyslav Tyshchenko <i>Electronic system "All-Ukrainian Toloka Archival Card Index": structure, tools, prospects of development</i></p>
Coffee break	
15.50 – 16.30	<p>Lubomyr Petryshyn, Mykhailo Petryshyn <i>Visualization modeling of management processes in knowledge-oriented systems</i></p> <p>Anna Bakurova, Mariia Pasichnyk and Elina Tereschenko <i>Development of a productive credit decision-making system based on the ontology model</i></p> <p>Tetiana Anokhina, Iryna Kobyakova and Svitlana Shvachko <i>Testing tools for writing and publishing e-dictionaries</i></p> <p>Oksana Zbanatska, Oksana Tur, Ksenia Sizova <i>Informational retrieval thesaurus of Yaroslav Mudryi National Library of Ukraine: content, structure, and use</i></p>
April 23rd 2021	
10.00 – 12.00	
Plenary Session	
Session Chairs: Nataliia Sharonova and Yevhen Kupriianov	
<p>Zoom meeting:</p> <p>https://us04web.zoom.us/j/76370992518?pwd=TGpiRW1NK015NlZJZUU1TStrVis2dz09</p> <p>Meeting ID: 763 7099 2518</p> <p>Passcode: 4fMLc4</p>	
10.00 – 10.20	<p>Olena Levchenko, Oleh Tyshchenko and Marianna Dilai <i>Automated Identification of Metaphors in Annotated Corpus (Based on Substance Terms)</i></p>
10.20 – 10.40	<p>Maria Shvedova and Ruprecht von Waldenfels <i>Regional annotation within GRAC, a large reference corpus of Ukrainian: issues and challenges</i></p>
10.40 – 11.00	<p>Lubomyr Demkiv <i>Intelligent real-time control of electrical vehicle's wheel</i></p>
11.20 – 11.40	<p>Dmytro Chumachenko, Sergey Yakovlev <i>Intelligent system of epidemic situation monitoring and control</i></p>
11.40 – 12.00	<p>Abdullah Al Mutawa <i>Machine learning for Arabic text to speech synthesis: a tacotron approach</i></p>

12.00 – 13.00	
BREAK	
13.00 – 16.30	
Session 5. Math Tools of Artificial Intelligence	
Session 6: Olga Cherednichenko and Karina Melnyk	
Join Zoom meeting	
https://us02web.zoom.us/j/83706906816?pwd=UEExWM1RBnFpxRGN3OGZmTlgvRTZEUT09	
Conference ID: 837 0690 6816	
Password: 2021	
13.00 – 13.40	<p>Oleksii Duda, Volodymyr Pasichnyk, Halyna Lypak, Nataliia Veretennikova, Nataliia Kunanets, Oleksandr Matsiuk and Valentyna Mudrokhaa <i>Formation of integrated repositories of social and communication data by consolidating the resources of museums, libraries and archives in smart cities projects</i></p> <p>Roman Bakhmut, Nataliia Kunanets, Antonii Rzhеuskyi, Volodymyr Pasichnyk, Vasyl Kut, Oleksandr Volkov and Ivan Tsmots <i>Formation of virtual tours with the use of augmented reality information technology</i></p> <p>Olga Cherednichenko, Maryna Vovk, Oksana Ivashchenko, Alenka Baggia and Nataliia Stratiienko <i>Improving item searching on trading platform based on reinforcement learning approach</i></p> <p>Andrii Sokolov, Oksana Sokolova and Viktor Khodakov <i>The criterion of optimality in the convex vector problem of optimization</i></p> <p>Mykola Korablyov, Natalia Axak, Oleksandr Fomichov, Volodymyr Hnidenko <i>Multi-agent clinical decision support system using case-based reasoning</i></p>
Coffee break	
13.50 – 14.30	<p>Nestor Shpak, Kateryna Doroshkevych, Yuriy Shpak, Ihor Salata and Marharyta Sharko <i>Strategy and tactics of international digitalization and intellectualization of economic relations</i></p> <p>Oleh Veres, Pavlo Ilchuk, Olha Kots and Lidiia Bondarenko <i>Big Data analysis for structuring FX market volatility due to financial crises and exchange rate overshooting</i></p> <p>Nestor Shpak, Oksana Mykytiuk, Zoriana Dvulit, Liana Maznyk and Natalia Horbal <i>Simulation the attractiveness of transport services as a tool for assessing consumer loyalty in the digital epoch</i></p> <p>Nestor Shpak, Liana Maznyk, Zoriana Dvulit, Oksana Mykytiuk and Tatiana Melnyk <i>Simulation the impact of eco expenditure on the effectiveness of eco projects: the railways of Ukraine case</i></p>

	Lunch
15.00 – 15.40	<p>Mykola Odrekhivskyyi, Uliana Kohut and Ulyana Kostyuk <i>Intelligent management system for ecological innovative enterprises</i></p> <p>Valentina Moskalenko and Nataliia Fonta <i>The Method of constructing a development trajectory as the basis of an intelligent module for strategic planning of the EPM system</i></p> <p>Oleksandr Markovets, Roman Holoshchuk, Svitlana Holoshchuk and Nestor Dumanskyi <i>CRM system and consolidated information resource: ways of creation and interaction</i></p> <p>Svitlana Kolosok, Tetiana Vasylieva and Serhiy Lyeonov <i>Machine analysis of the UK electrical energy initiatives based on the e-petitions to the UK Government and Parliament</i></p>
	Coffee break
15.50 – 16.30	<p>Andrii Berko, Myroslava Bublyk, Lyubomyr Chyrun, Yurii Matseliukh, Roman Levus, Valentyna Panasyuk, Oksana Brodyak, Lyudmyla Dzyubyk and Olga Garbich-Moshora <i>Models and methods for e-commerce systems designing in the global economy development conditions based on Mealy and Moore machines</i></p> <p>Myroslava Bublyk and Yurii Matseliukh <i>Small-batteries utilization analysis based on mathematical statistics methods in challenges of circular economy</i></p> <p>Lyubomyr Chyrun <i>The e-commerce systems modelling based on Petri networks</i></p> <p>Andrii Berko, Vasyl Andrunyk, Lyubomyr Chyrun, Mykhailo Sorokovsky, Oksana Oborska, Oksana Oryshchyn, Mykhailo Luchkevych and Oksana Brodovska <i>The content analysis method for the information resources formation in electronic content commerce systems</i></p> <p>Anatolii Vysotskyi, Volodymyr Kuchkovskiy, Vasyl Andrunyk, Maksym Krylyshyn, Lyubomyr Chyrun, Nataliia Sokulska and Ilona Brodovska <i>Application of online marketing methods and seo technologies for web resources analysis within the region</i></p>
13.00 – 16.30	
Session 6. Machine Learning Applications	
Session Chairs: Vasyl Lytvyn, Dmytro Dosyn and Tetiana Shestakevych	
Join Zoom meeting	
https://us02web.zoom.us/j/87590417073?pwd=REM3THB3M1VqdVowVW1HM2ErTjhSZz09	
Meeting ID: 875 9041 7073	
Password: 99kFz5	
13.00 – 13.40	<p>Yuriy Zaychenko and Galib Hamidov <i>Hybrid neo-fuzzy neural networks based on self-organization and their application</i></p>

	<p><i>for forecasting in financial sphere</i></p> <p>Oleg Rudenko and Oleksandr Bezsonov <i>Robust training of ADALINA based on the criterion of the maximum correntropy in the presence of outliers and correlated noise</i></p> <p>Sayan Roy, Binoy Sasmal <i>Integration hierarchical clustering method and dendrogram method with expectation maximization for identification of the best player cluster</i></p> <p>Mahmoud Smaida, Serhii Yaroshchak and Youness El Barg <i>DCGAN for Enhancing Eye Diseases Classification</i></p>
	Coffee break
13.50 – 14.30	<p>Anatoliy Dovbysh, Vladyslav Piatachenko <i>Hierarchical clustering approach for information-extreme machine learning of hand brush prosthesis</i></p> <p>Anatolii Kargin and Tetyana Petrenko <i>Planning and control method based on fuzzy logic for intelligent machine</i></p> <p>Igor Baklan, Alina Oliinyk, Iryna Mukha, Kateryna Lishchuk, Olena Gavrilenko, Svitlana Reutska, Anna Tsytsyliuk and Yuriy Oliinyk <i>ECG signal processing based on linguistic chain fuzzy sets</i></p> <p>Eugene Fedorov and Olga Nechyporenko <i>Dynamic stock buffer management method based on linguistic constructions</i></p> <p>Serhii Tsyurulnyk, Volodymyr Tromsyuk, Valentyna Vernygora, Yaroslav Borodai <i>Simulation of logic elements in reverse mode for building neural networks</i></p>
	Lunch
15.00 – 15.40	<p>Lyudmyla Kirichenko, Tamara Radivilova and Juliia Stepanenko <i>Applying recurrence plots to classify time series</i></p> <p>Anton Senko, Andrey Kypin and Yuriy Osadchuk <i>Development of indirect determination model based on neural networks for the process of iron ore beneficiation</i></p> <p>Lidia Moskvych, Yuliia Riepina and Kostyantyn Shcherbinin <i>Application of video segmentation based on analysis of multi-dimensional time series in a criminal process</i></p> <p>Ganna Khoroshun <i>The fuzzy logic for machine vision system effectiveness assessment</i></p> <p>Oleksandr Drozd, Kostiantyn Zashcholkin, Maciej Dobrowolski, Anatoliy Sachenko, Oleksandr Martynyuk, Olena Ivanova and Julia Drozd <i>Evaluating real checkability for FPGA-based components of safety-related systems</i></p>
	Coffee break
15.50 – 16.30	Hrystyna Lipyanina-Goncharenko, Anatoliy Sachenko, Taras Lendyuk, Pavlo

	<p>Bykovyy and Diana Zahorodnia <i>Method of forming a training sample for segmentation of tender organizers on machine learning basis</i></p> <p>Nataliya Boyko and Rostyslav Hlynka <i>Application of machine algorithms for classification and formation of the optimal plan</i></p> <p>Nataliya Boyko, Solomiya Hetman, Iryna Kots <i>Comparison of clustering algorithms for revenue and cost analysis</i></p> <p>Nataliya Boyko, Petro Telishevskiy, Beata Kushka <i>Analysis of accuracy measures for the task of classification in the recommendation systems</i></p> <p>Lyubomyr Chyrun, Vasyl Andrunyk, Liliya Chyrun, Aleksandr Gozhyj, Anatolii Vysotskyi, Oksana Tereshchuk, Nadiya Shykh, and Vadim Schuchmann <i>The electronic digests formation and categorization for textual commercial content</i></p>
<p>13.00 – 16.30</p> <p>Session 7. Discourse Analysis and Social Media – Prof. Olena Levchenko</p> <p>Session Chairs: Olena Levchenko and Nataliia Hrytsiv</p>	
<p>Join Zoom meeting:</p> <p>https://zoom.us/j/98529930323?pwd=Z254T2Z6c1VMZUhLb1hobm04bG9udz09</p> <p>Meeting ID: 985 2993 0323</p> <p>Password: 289599</p>	
13.00 – 13.40	<p>Nataliya Vnukova, Svitlana Achkasova, Oleksii Gorokhovatskyi and Hanna Pysarevska <i>Decomposition of Google Trends series for the search of patterns and seasonality of financial risk control interest</i></p> <p>O. S. Kushnir, L. B. Ivanitskyi, A. I. Kashuba, M. R. Mostova and V. B. Mykhaylyk <i>Repetition characteristic for single texts</i></p> <p>Antonina Badan and Nataliia Onishchenko <i>Multimedia technologies in foreign language learning under pandemic</i></p> <p>Tetiana Shestakevych <i>Modeling the process of analysis of statistical characteristics of student digital text</i></p> <p>Nataliia Hrytsiv, Tetiana Shestakevych and Juliia Shyyka <i>Quantitative parameters of Lucy Montgomery's literary style</i></p>
<p>Coffee break</p>	
13.50 – 14.30	<p>Ivan Bekhta and Nataliia Hrytsiv <i>Computational linguistics tools in mapping emotional dislocation of translated fiction</i></p> <p>Ivan Bekhta, Nataliia Hrytsiv and Anastasiia Matviichuk <i>Marking up dramatic text: a case study of "7 Stories" by Morris Panych</i></p>

	<p>Nataliia Romanyshyn <i>Algorithm for disclosing artistic concepts in the correlation of explicitness and implicitness of their textual manifestation</i></p> <p>Liubov Stasiuk <i>Gender Marked intimate conversational interaction of spouses in Modern English</i></p> <p>Olena Yurchenko and Nataliia Ugolnikova <i>Linguistic methods in social media marketing</i></p>
	Lunch
15.00 – 15.40	<p>Zoriana Haladzhun, Olha Harmatiy, Yuriy Bidzilya, Natalia Kunanets, and Khrystyna Shunevych <i>Hate speech in media towards the representatives of Roma ethnic community</i></p> <p>Solomiia Albota <i>Linguistically manipulative, disputable, semantic nature of the Community Reddit Feed Post</i></p> <p>Oleksandr Markovets, Solomiia Albota and Oksana Horpyniuk <i>Information consolidation on users of social networks to determine their credibility</i></p> <p>Nataliya Bondarchuk, Ivan Bekhta <i>Quantitative characteristics of lexical-semantic groups representing weather in weather news stories (based on British online press)</i></p>
	Coffee break
15.50 – 16.30	<p>Svitlana Popereshnyak, Iryna Yurchuk <i>Social networks: analysis, algorithms and their implementation</i></p> <p>Nataliia Liubchenko, Andrii Podorozhniak, and Vasyl Oliinyk <i>Research of antispam bot algorithms for social networks</i></p> <p>Viktor Shynkarenko and Inna Demidovich <i>Authorship determination of natural language texts by several classes of indicators with customizable weights</i></p> <p>Olha Kulyna <i>Anthropocentrism as implimention of a testator/testatrix's communicative goal</i></p> <p>Mariana Zhuravel and Yurii Lavriv <i>Methodology for analysis of intertextuality: technical aspect</i></p>
13.00 – 15.20	
Student Session	
Session Chairs: Svitlana Petrasova and Natalia Borysova	
<p>Join Zoom meeting: https://us04web.zoom.us/j/5716961136?pwd=K2tRQUJpa3RUU1lkY0VFNIBxb3J3dz09 Meeting ID: 571 696 1136 Password: 333333</p>	
13.00 – 13.40	Vitalii Karasov, Olena Levchenko

	<p><i>An algorithm of automated identification of the noun “думка” + Verb and Verb + Noun “думка” metaphorical model meaning (based on the novel Музеї покинутих секретів written by Oksana Zabuzhko)</i></p> <p>Maria Razno, Nina Khairova <i>Media discourse analysis based on Ukrainian spoken and written corpus</i></p> <p>Uliana Romanova, Svitlana Petrasova <i>An approach to extraction of Verb-Noun patterns from news data stream</i></p> <p>Anastasiia Shapovalova, Svitlana Petrasova <i>Linguistic features of designing open-ended test systems</i></p>
	Coffee break
13.50 – 14.30	<p>Anna Shleiko, Natalia Borysova, Zoia Kochuieva, Karina Melnyk <i>An overview of existing machine learning methods for gender classification of names</i></p> <p>Yaroslav Tarasenko, Svitlana Petrasova <i>Unsupervised open relation extraction</i></p> <p>Daria Budko, Nataliia Sharonova <i>Research of information retrieval data processing in commercial electronic resources</i></p> <p>Yuliia Selivorstova, Irina Liutenko <i>Problems of evaluating frameworks for Web applications</i></p>
	Coffee break
14.40 – 15.20	<p>Maiia Holshtein, Nadiia Babkova <i>The approach to creating the recommendation system of piano pieces</i></p> <p>Anastasiia Khluieva, Zoia Kochuieva, Natalia Borysova <i>Implementation of the removing homonymy by collocation system</i></p> <p>Vladyslav Khrantsov, Olena Orobinska <i>Special aspects of translation of medical instructions</i></p> <p>Valeriia Didushok, Nina Khairova <i>Linguistic characteristics of combat post-traumatic stress disorder in a trauma related narrative: computational context-aware approach</i></p>
17.00 – 17.40 Conference Closing Session Chairs: Nataliia Sharonova, Yevhen Kupriianov	
Zoom meeting: https://us02web.zoom.us/j/85366465839?pwd=K05OdmppwT1FvWmY4VDVMT3VHanh2Zz09 Conference ID: 853 6646 5839 Password: 4uznWN	
	<p>Prof. Nataliia Sharonova <i>National Technical University “Kharkiv Polytechnic Institute”</i></p>

To get CoLInS support, please contact Dr. Yuliia Hlavcheva:

Zoom: <https://zoom.us/j/98442215617?pwd=L1JBWTNjWC9PdWMreFVKbmJMaVdrQT09>

Session ID: 984 4221 5617

Passcode: ja3FUS

Tel: + 3 8(066) 752 8241

Hours: 10:00 – 16:00