Name Phone number Nationality E-mail	Natalia Chernova +380958287074 Ukraine natalia.chernova@khpi.edu.ua	

PROFESSIONAL AND ACADEMIC POSITIONS:

09/2023 – to current	Associate Professor, Department of Software Engineering and Management Intelligent Technologies, Educational and Scientific Institute of Computer Science and Information Technologies, National Technical University "Kharkiv Polytechnic Institute"
2005-2022	Associate Professor, Department of Economic Cybernetics and System Analysis, Simon Kuznets Kharkiv National University of Economics
2003-2005	Senior Instructor, Department of Economic Cybernetics, Simon Kuznets Kharkiv National University of Economics
2000-2002	Ph.D. Student, Department of Economic Cybernetics, Simon Kuznets Kharkiv National University of Economics

EDUCATION:

2003	Ph.D. (Economic and Mathematical Modeling), Kharkiv State University of Economics, Kharkiv, Ukraine
1994-1999	Specialist Degree (Economic Cybernetics), Kharkiv State University of Economics, Kharkiv, Ukraine

COURSES TAUGHT

- Computer Mathematics (lectures and lab classes in English and Ukrainian at Bachelor level)
- Operations Research (lectures and lab classes in English and Ukrainian at Bachelor level)
- Econometrics (lectures and lab classes in English and Ukrainian at Bachelor level)
- Neural Networks (lectures and lab classes in English and Ukrainian at Bachelor level)

FIELDS OF RESEARCH INTEREST:

decision-making models for managing complex systems

SUMMARY OF CAREER ACHIEVEMENTS

- Prepared and published more than 100 research papers and textbooks

SCOPUS - https://www.scopus.com/authid/detail.uri?authorId=57212460303

ORCID – https://orcid.org/0000-0002-0073-8457

 Google Scholar - https://scholar.google.com/citations?user=Sw5D0r8AAAAJ

- Jean Monnet Module "European Integration of Ukraine in Industry 4.0" (certificate of participation #195/2021)
- BUSINESS ENGLISH CERTIFICATE (BEC) VANTAGE Grade A - CEFR Level C1, certificate №0052873858 (2016 р.)
- training certificate ПК02071211/000059-16, "Development of communicative competence among scientific and pedagogical workers of higher education institutions", Simon Kuznets Kharkiv National University of Economics, 2016.
- training certificate 12СПВ 142881, за програмою «General methods of teaching economic disciplines in English. General technologies of working with the audience», Simon Kuznets Kharkiv National University of Economics, 2015.

PROFESSIONAL MEMBERSHIPS:

- OPEN INNOVATION PLATFORM OF BUSINESS INITIATIVES AND INVESTMENT PROJECTS PRO SMART BIZ (PRO SMART BIZ): Kharkiv, UA

RELATED PUBLICATIONS

- **N. Chernova**, O. Serhiienko, L. Chagovets, V. Baranova and N. Volosnikova, Ukraine Stock Market Spatial-Dynamic Analysis, *2022 International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, Ankara, Turkey, 2022, pp. 900-906, https://doi.org/10.1109/ISMSIT56059.2022.9932757.
- Sergienko, O., Mashchenko, M., Gavkalova, N., **Chernova, N.**, Lola, Y. Cognitive Technologies For Modeling Migration Processes In Education. Public Policy and Administration , 2022, 21(2), pp. 22–38. doi.org/10.13165/VPA-22-21-2-04
- Zyma, O., Guryanova, L., Gavkalova, N., **Chernova, N.**, Nekrasova, O. The Application of Machine Learning Methods in Determining Attractive Development Directions for Tourism Businesses. Intellectual Economics, 2022, 16(1), pp. 151–165. DOI: 10.13165/IE-22-16-1-09
- Chagovets L., Chahovets V., **Chernova N.** (2020) Machine Learning Methods Applications for Estimating Unevenness Level of Regional Development. In: Ageyev D., Radivilova T., Kryvinska N. (eds) Data-Centric Business and Applications. Lecture Notes on Data Engineering and Communications Technologies, vol 42. Springer, Cham. https://doi.org/10.1007/978-3-030-35649-1_6;
https://link.springer.com/chapter/10.1007/978-3-030-35649-1_6
- Chagovets, L., **Chernova, N.**, Klebanova, T., Dorokhov, O., Didenko, A. Selective adaptive model for forecasting of regional development unevenness indexes. CEUR Workshop Proceedings, 2020, 2649, 58–76. http://ceur-ws.org/Vol-2649/paper6.pdf
- **N. Chernova**, M. Mashchenko, O. Sergienko, O. Bilotserkivskyi and O. Shapran, "Modeling Internationally Diversified Investment Portfolio," *2020 IEEE International Conference on Problems of Infocommunications. Science and Technology (PIC S&T)*, 2020, pp. 368-372. https://ieeexplore.ieee.org/document/9468042 ; https://doi.org/10.1109/PICST51311.2020.9468042
- Fabus, M., Dubrovina, N., Guryanova, L., **Chernova, N.**, Zyma, O., 2019. Strengthening financial decentralization: driver or risk factor for sustainable socio-economic development of territories. Entrepreneurship and Sustainability Issues, 7(2), 875-890. https://doi.org/10.9770/jesi.2019.7.2(6)
- Chagovets L.O., **Chernova N.L.**, Bogomolov A.I., Nevezhin V.P. The Information Signal Resonance Effect Modeling. 2019 IEEE International Scientific-Practical Conference Problems of Infocommunications, Science and Technology (PIC S&T), Kyiv, Ukraine, 2019, pp. 364-368. https://doi.org/10.1109/PICST47496.2019.9061422; https://ieeexplore.ieee.org/document/9061422
- **N. L. Chernova**, O. Y. Poliakova (2021). Fair Value Accounting Model for Stock Indices . *The Problems of Economy*, (1), 169-177. https://doi.org/10.32983/2222-0712-2021-1-169-177
- **N. L. Chernova**, O. Y. Poliakova (2020). Determining an Optimal Structure of a Portfolio Containing Assets of Mature and Emerging Markets. *The Problems of Economy*, (1), 332-339. https://doi.org/10.32983/2222-0712-2020-1-332-339
- **Chernova N. L.**, Guryanova L. S. (2020) Analyzing the Space-Time Structure of the Futures Section of the Metals Market. *Business Inform*. (1), 108–115. https://doi.org/10.32983/2222-4459-2020-1-108-115
- Lidiya Guryanova, **Natalia Chernova** (2019). Metals futures market: a comparative analysis of investment and arbitrage strategies. *Development Management*, *17*(4), 42-54. https://doi.org/10.21511/dm.17(4).2019.04

- **Chernova, N.**, Prokopovych, S. Ukraine bond market: yield curve analysis. Conference Proceedings of the 2nd International Scientific Conference "Economic and Social-Focused Issues of Modern World" (October 16 – 17, 2019, Bratislava, Slovakia http://www.vsemvs.sk/portals/0/Subory/Conference%20Proceedings_VSEMvs_October_2019_final.pdf
- Liubov Chagovets, **Natalia Chernova**, Oksana Panasenko, Irina Medvicka Fuzzy logic and neural networks application in estimation of economic security. Conference Proceedings of the 2nd International Scientific Conference "Economic and Social-Focused Issues of Modern World" (October 16 – 17, 2019, Bratislava, Slovakia http://www.vsemvs.sk/portals/0/Subory/Conference%20Proceedings_VSEMvs_October_2019_final.pdf
- **N. Chernova**, O. Polyakova (2016) Diagnosis and forecasting economy state with hidden markov model. East European Scientific Journal. No 7. – P. 112-116.