

Eduard MANZIUK

Ph.D (Engineering Science).

*Associate professor Computer Science Department
Khmelnyskyi National University*



Personal information:

Date of birth: 15.09.1976

Place of birth:
Khmelnyskyi region, Ukraine

Single

Experience:

- 2021-present – Senior Lecturer, Associate Professor, Department of Computer Science, Khmelnytskyi National University, Khmelnytskyi, Ukraine
- 2002-2004 – Assistant Professor, Department of Information technology design, , Khmelnytskyi National University, Khmelnytskyi, Ukraine

Contacts:

Phone: +38 (068) 213-12-13

Address: Khmelnytskyi, Ukraine

Email:
eduard.em.km@gmail.com

Educational background:

- 2004 – Ph.D., Khmelnytskyi State University, Khmelnytskyi, Ukraine
- 1998-2001, Ph.D. studies, Podillia University of Technology, Khmelnytskyi, Ukraine
- 1993-1998, Podillia University of Technology, Specialist, Engineering Science, Khmelnytskyi, Ukraine

Research interests:

AI,
ML,
Analysis of textual information,
Modeling, classification, and
clustering of data,
Visual analytics.

R&D projects:

- executor 2 R&D projects commissioned by the MES of Ukraine, NAS of Ukraine, The Science and Technology Center in Ukraine (STCU)

Editor/Reviewer:

- Fourth International Workshop on Computer Modeling and Intelligent Systems (CMIS-2021)
- 3rd International Workshop on Intelligent Information Technologies & Systems of Information Security (IntelITSIS-2020)
- 9th International Conference "Information Control Systems & Technologies" (ICST-2020)
- IGI Global: International Academic Publisher



Public profiles:

ORCID ID	0000-0002-7310-2126
Scopus ID	57203157573
Researcher ID	AAG-9231-2019
Google Scholar ID	bwW-dBEAAAAJ&hl
ResearchGate ID	Eduard A. Manziuk

Selected publications

Papers in Journals/Proceedings

1. Krak I., Barmak O., Manziuk E. Using visual analytics to develop human and machine-centric models: A review of approaches and proposed information technology. *Computational Intelligence*, 2022. Vol. 38, No 3. Pp 921–946. URL: <https://doi.org/10.1111/coin.12289>. – Q1
2. Manziuk E. Influence of geometric parameters of the rotary hook on interaction of its elements in high-speed modes sewing machine. *International Journal of Clothing Science and Technology*. 2018. Vol. 30, No. 6. pp. 828–838. <https://doi.org/10.1108/IJCST-04-2018-0053>. – Q2
3. Krak Iu. V., Kasianiuk V. S., Kudin H. I., Barmak O. V., Manziuk E. A. Multivariate scaling of the characteristic features based on pseudo-inverse operations for recognition problems solving. *Pattern Recognition and Image Analysis*, 2020. Vol. 30, No 2. Pp. 184–191. URL: <https://doi.org/10.1134/S1054661820020078>. Q3
4. Manziuk E. A., Barmak A. V., Krak Y. V., Kasianiuk V. S. Definition of information core for documents classification. *Journal of Automation and Information Sciences*, 2018. Vol. 50, No 4. Pp. 25–34. URL: <https://doi.org/10.1615/JAutomatInfScien.v50.i4.30>. Q3
5. Manziuk E. A., Wójcik W., Barmak O. V., Krak I. V., Kulias A. I., Drabovska V. A., Puhach V. M., Sundetov S., Mussabekova A. Approach to creating an ensemble on a hierarchy of clusters using model decisions correlation. *Przegląd Elektrotechniczny*, 2020. Vol. 96, No 9. Pp. 108–113. URL: <https://doi.org/10.15199/48.2020.09.23>. Q3
6. Barmak O., Manziuk E., Krak I. Classification based hierarchical clustering prediction variability in the ensembles of models using a statistical Approach. *The 2020 IEEE 15th International Scientific and Technical Conference "Computer Science and Information Technologies"*: Proceedings (Lviv–Zbarazh (Ukraine), September 23–26, 2020). Vol. 1. Pp. 11–14. URL: <https://doi.org/10.1109/CSIT49958.2020.9322019>.
7. Krak I., Kudin H., Barmak O., Manziuk E., Smolarz A., Mamyrbaev O. Method and algorithm of the piecewise-hyperplane clusterization using tools of pseudo-inverse matrices. *SPIE – The International Society for Optical Engineering "Photonics Applications in Astronomy, Communications, Industry, and High-Energy Physics Experiments 2019"*: Proceedings (Wilga (Poland), November 06, 2019). Vol. 11176. Pp. 1–8. URL: <https://doi.org/10.1117/12.2537417>.

Book/Chapter Book

1. Mazurets O., Barmak O., Krak I., Manziuk E., Bahrii R. Method for adaptive semantic testing of educational materials level of knowledge. *Lecture Notes on Data Engineering and Communications Technologies*. 2022. Vol. 77. Pp. 491–506. https://doi.org/10.1007/978-3-030-82014-5_33.
2. Krak Iu., Kruchynin K., Barmak O., Manziuk E., Kruchinin S. Visual analytics in machine training systems for effective decision. *Advanced Nanomaterials for Detection of CBRN. NATO Science for Peace and Security Series A: Chemistry and Biology*. 2020. Pp. 327–338. URL: https://doi.org/10.1007/978-94-024-2030-2_25.
3. Krak I., Barmak O., Manziuk E. Visual analytics to build a machine learning model. *Research Advancements in Smart Technology, Optimization, and Renewable Energy*. IGI Global, 2021. Pp. 313–329. <https://doi.org/10.4018/978-1-7998-3970-5.ch015>