# Oleksandr MAZURETS

*Ph.D (Engineering Science),*
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## Research interests:

Artificial intelligence,
neural networks,
semantic texts analysis

## Educational background & experience:

- 2003 – received the qualification "Computer Science Bachelor " with the specialty "Computer Science".
- 2004 – received the qualification "Program Engineer" in the specialty "Information Design Technologies".
- 2007-present – working at the of Computer Science Department, Khmelnytskyi National University, Khmelnytskyi, Ukraine
- 2020 - defended a thesis for candidate degree of technical sciences on the topic: "Information technology of automated structuring of educational materials and creation of tests for adaptive control of knowledge level" on specialty "Information technologies".

## Public profiles:

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|---|---|
| ORCID ID | 0000-0002-8900-0650 |
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## Scopus publications:

1. I. Krak, O. Barmak, O. Mazurets, **The practice investigation of the information technology efficiency for automated definition of terms in the semantic content of educational materials**. CEUR Workshop Proceedings, 2016, vol.1631, pp. 237–245.
2. Y. Krak, O. Barmak, O. Mazurets, **The practice implementation of the information technology for automated definition of semantic terms sets in the content of educational materials**. CEUR Workshop Proceedings, 2018, vol. 2139, pp. 245–254.
3. O. Barmak, O. Mazurets, I. Krak, A. Kulias, A. Smolarz, L. Azarova, K. Gromaszek, S. Smailova. **Information technology for creation of semantic structure of educational materials**. Proceedings of SPIE – The International Society for Optical Engineering, 2019, vol. 11176, 1117623.
4. O. Barmak, I. Krak, O. Mazurets, S. Pavlov, A. Smolarz, W. Wojcik, **Research of efficiency of information technology for creation of semantic structure of educational materials**. Advances in Intelligent Systems and Computing, 2020, vol. 1020, pp. 554–569.
5. O. Barmak, O. Mazurets, I. Krak, A. Kulias, **Method for automated test tasks creation for educational materials**. CEUR Workshop Proceedings, 2020, vol. 2711, pp. 309–320.
6. Manziuk E., Barmak O., Krak I., Mazurets O., Skrypnyk T. **Formal model of trustworthy artificial intelligence based on standardization**. CEUR Workshop Proceedings, 2021, vol. 2853, pp. 190–197.
7. E. Manziuk, I. Krak, O. Barmak, O. Mazurets, V. Kuznetsov, O. Pylypiak, **Structural alignment method of conceptual categories of ontology and formalized domain**. CEUR Workshop Proceedings, 2021, vol. 3003, pp. 11–22.
8. Mazurets O., Barmak O., Krak I., Molchanova M., Sobko O. **Information Technology for Adaptive Semantic Testing of Knowledge Level of Educational Materials**. Proceedings of the 11th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, IDAACS 2021, 2021, vol. 1, pp. 160–165
9. Manziuk E., Barmak O., Krak I., Mazurets O., Pylypiak O. **Method of features analysis on transition data**. 2021 IEEE 3rd International Conference on Advanced Trends in Information Theory, ATIT 2021 - Proceedings, 2021, pp. 272–277.
10. Mazurets O., Barmak O., Krak I., Manziuk E., Bahrii R. **Method for Adaptive Semantic Testing of Educational Materials Level of Knowledge**. Book Chapter. Lecture Notes on Data Engineering and Communications Technologies. 2022. Vol. 77. pp. 491–506.
11. Slobodzian V., Kovalchuk O., Molchanova M., Mazurets O., Barmak O., Krak I. **Text Data Vectorization Model of Ukrainian-Language Internet Communication Content**. CEUR Workshop Proceedingsthis link is disabled, 2022, vol. 3171, pp. 561–571.