Curriculum Vitae
of Prof. Alexander Tselykh

Personal Data
Date and place of birth: April 1, 1958, Rostov-on-Don (Russia) ¨
Citizenship: Russian citizen
Marital status: married, 3 children
Office and Mailing Address: Department of Information and Analytical Security Systems Institute, Computer Technologies and Information Safety (Southern Federal University) 44, Nekrasovsky st., Taganrog, Rostov region, 347922, Russia.
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EDUCATION

Higher educational	Taganrog Institute of Radio-Engineering. Address: 44, Nekrasovsky st., Taganrog, Rostov region, 347922, Russia
Faculty and specialty	Faculty of automation and computer science. Specialty - Applied Mathematics Qualification - Engineer-Mathematician
Scientific degree and dissertation topic	Doctor of Technical Science, Full Professor. Creation and research of decision-making models in integrated intelligent systems and their application to solve environmental problems

EMPLOYMENT

09.1975 -08.1980	**Student** at Taganrog Institute of Radio-Engineering. Address: 44, Nekrasovsky st., Taganrog, Rostov region, 347922, Russia.
09.1980 -10.1988	**PhD student, junior researcher** at Taganrog Institute of Radio-Engineering. Address: 44, Nekrasovsky st., Taganrog, Rostov region, 347922, Russia.
10.1988 -06.1991	**Assistant professor** at the Taganrog Institute of Radio-Engineering, renamed Taganrog State University of Radio-Engineering in Nov. 1993. Address: 44, Nekrasovsky st., Taganrog, Rostov region, 347922, Russia.
06.1991 - 10.2000	**Associate professor** at theTaganrog State University of Radio-Engineering. Address: 44, Nekrasovsky st., Taganrog, Rostov region, 347922, Russia.
10.2000 - present time	**Professor** at Southern Federal University (Taganrog State University of Radio-Engineering was merged to the Southern Federal University in Nov.2006). Address: 44, Nekrasovsky st., Taganrog, Rostov region, 347922, Russia

10.2000 - present time	A professor and head of Department of Information and Analytical Security Systems Institute, Computer Technologies and Information Safety, Southern Federal University. Address: 44, Nekrasovsky st., Taganrog, Rostov region, 347922, Russia. Web site: http://sfedu.ru/ Scientific interests: mathematical modeling, artificial intelligence, decision support systems.

KEY PUBLICATIONS (Selected in English)

1. Tselykh, A., Vasilev, V. & Tselykh, L. Assessment of influence productivity in cognitive models. Artif Intell Rev (2020). DOI: 10.1007/s10462-020-09823-8

2. Tselykh, A., Vasilev, V. ,Tselykh, L. & Fernando A. F. Ferreira, 0. Influence control method on directed weighted signed graphs with deterministic causality. Annals of Operations Research, Springer, (2020). DOI: 10.1007/s10479-020-03587-8

3. Clustering method based on the elastic energy functional of directed signed weighted graphs. Tselykh, A., Vasilev, V., Tselykh, L. 2019. Physica A: Statistical Mechanics and its Applications, 523, c. 392-407.

4. Management of Control Impacts Based on Maximizing the Spread of Influence. Tselykh, A., Vasilev, V., Tselykh, L. 2019. International Journal of Automation and Computing, 16(3), c. 341-353.

5. Tselykh, A., Vasilev, V., Tselykh, L. Barkovskii, S. Knowledge discovery using maximization of the spread of influence in an expert system. Expert Systems. 2018. 35(6), e12312. DOI: 10.1111/exsy.12312.

6. Tselykh A., Vasilev V., Tselykh L., Barkovskii S. Method maximizing the spread of influence in directed signed weighted graphs. Advances in Electrical and Electronic Engineering Journal. 2017. № 2. Pp. 203-214. DOI: 10.15598/aeee.v15i2.1950.

7. Tselykh A., Tselykh L., Vasilev V. Managing influence in complex systems to ensure safety of their operation. SIN'19: Proceedings of the 12th International Conference on Security of Information and Networks. 2019. Pp. 1–6. DOI: 10.1145/3357613.3357614.

8. Tselykh A., Tselykh L., Vasilev V. Knowledge discovery model based on the effective control theory for decision support systems. 2019 IEEE 17th International Conference on Industrial Informatics (INDIN), Helsinki, Finland. 2019. Pp. 1668-1673. DOI: 10.1109/INDIN41052.2019.8972049.

9. Tselykh A., Tselykh L., Vasilev V. Effect of Resonance in the Effective Control Model Based on the Spread of Influence on Directed Weighted Signed Graphs. Advances in Intelligent Systems and Computing. 2020. Vol. 1156. DOI: 10.1007/978-3-030-50097-9_28

10. Barkovskii, S., Tselykh, L., Tselykh, A. The matrix data recognition tool in the input files for the computing applications in an expert system. 2019. Advances in Intelligent Systems and Computing. 875, c. 198-208. DOI: 10.1007/978-3-030-01821-4_21.

11. Tselykh A., Tselykh L., Barkovskii S., Input output data converter for the math engine in an expert system. 2019. Advances in Intelligent Systems and Computing, 860, c. 311-322. DOI: 10.1007/978-3-030-00184-1_29.

12. Tselykh A., Vasilev V., Tselykh L. Fuzzy graphs clustering with quality relations functionals in cognitive models / Proceedings of the First International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'16); series "Advances in Intelligent Systems and Computing", Series Vol. 450, 2016, Vol. 1., pp. 349-360. URL: DOI: 10.1007/978-3-319-33609-1_32

13. Tselykh A., Tselykh L., Vasilev V., Barkovskii S. Expert system with extended knowledge acquisition module for decision making support. Advances in Intelligent Systems and Computing. 2018. Vol. 680. Pp. 21-31. DOI: 10.1007/978-3-319-68324-9_3.

14. Sergeev N.E., Tselykh A.A., Tselykh A.N. Generalized approach to modeling user activity

graphs for network security and public safety monitoring. ACM International Conference Proceeding. Series 7. "Proceedings of the 6th International Conference SIN 2013" 2013. Pp. 117-122. DOI: 10.1145/2523514.2523534.

The total number of publications:	131
Certificates of Russian state registration of computer programs	11
GRANTS	8 (Russian Foundation for Basic Research)