

CURRICULUM VITAE

Alexander E. Lepskiy

Personal information

Gender: Male, two children
Date of Birth: 30/10/1963
Place of Birth: Gusev, Kaliningrad region, USSR
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A) Education

Doctor Hab. of Mathematical Science (Russian degree that is much higher than Ph.D.), Theoretical Foundations of Informatics, Mathematical Modeling, Taganrog Institute of Technology of Southern Federal University (TIT SFU), Taganrog, Russia, 09/2005-09/2008;
Candidate of Mathematical Science (Ph.D.), Mathematical Analysis, Rostov State University, Rostov-na-Donu, Russia, 01/1988-01/1991;
Diploma in Applied Mathematics, Taganrog Institute of Radio Engineering (TIRE), Taganrog, the USSR, 09/1981-06/1986.

B) Honors, Awards, Fellowships

Student Fellowship from TIRE, Taganrog, the USSR, 09/81-06/86,
Fellow (Publication Committee) of International Academy of Information Technology and Quantitative Management (IAITQM), <http://www.iaitqm.org/>.

C) Language Skills

Russian (Mother-tongue), English (intermediate).

D) Positions

Full Professor, Department of Higher Mathematics on Faculty of Economics, 09/2009-Present,
Deputy Laboratory Head, International Laboratory of Decision Choice and Analysis (<http://www.hse.ru/en/DeCAN/>), 01/2011-Present,
National Research University – Higher School of economics (<http://www.hse.ru/en/>), Moscow, Russia;
Full Professor, Department of Higher Mathematics, TIT SFU, Taganrog, Russia, 2009;
Doctorant (person working at Doctor Hab. of Mathematical Science), TIT SFU, Taganrog, Russia, 09/2005-08/2008;
Associate Professor, Department of Higher Mathematics, TSURE, Taganrog, Russia, 09/1993-06/2009;
Head of a Laboratory of Mathematical Problems of Artificial Intelligence, TIT SFU, Russia, 07/2005-Present;
Researcher, Laboratory of Mathematical Problems of Artificial Intelligence, TIT SFU, Russia, 01/1998-06/2005;
Assistant Professor, Department of Higher Mathematics, TIRE, Taganrog, Russia, 09/91-09/93.

E) Teaching

I have taught courses in pure mathematics (integral and differential calculus, differential equations, complex analysis, probability theory, functional analysis), and in cybernetics (discrete mathematics, pattern recognition, artificial intelligence, fuzzy sets theory, imprecise probabilities) at bachelor and master's levels.

Supervision of Master Theses and Diplom Theses – 23,

F) Research Interests

Monotone measure theory, belief function theory, decision making theory, possibility theory, imprecise probabilities, fuzzy sets theory, pattern recognition, image processing and analysis.

G) Grants

- Russian Foundation of Basic Research (#14-07-00189) “The study of the rules of aggregation of information within imprecise probability approach with applications to the evaluation of the quality of the financial and economic expert information”, (2014-2016);
- Russian Foundation of Basic Research (#11-07-00591) “Theoretical research of imprecision indices of monotone measures and their application in problems of estimation uncertainty and informative non-deterministic systems”, (2011-2013);
- Russian Foundation of Basic Research (#11-07-07020) Publication of the book "Analysis of uncertainty selection of informative features and representations of images" (2011-2012);
- Russian Foundation of Basic Research (#08-07-00129) “Research of the multiresolution sign pattern representation at the tasks of biometrical information analysis under development of the information security systems”, 2008-2010.

H) Some publications

Book

1. Bronevich A., Karkishchenko A.N., Lepskiy A. Uncertainty analysis of selection of informative features and representations of images. – Moscow: Fizmatlit, 2013, 320p. (in Russian)

Tutorial

2. Bronevich A., Lepskiy A. Mathematical methods of pattern recognition. – Taganrog: Publ. TTI SFU, 155p. (in Russian)

Some articles in journals and contributed volumes

3. Lepskiy A. Stochastic and fuzzy ordering with the method of minimal transformations// Automation and Remote Control, 2017, 78(1), pp.50-66.
4. Kutynina E., Lepskiy A. Dynamic Analysis of the Development of Scientific Communities in the Field of Soft Computing// in Soft Methods for Data Science (editors Ferraro M.B., Giordani P., Vantaggi B., Gagolewski M., Ángeles Gil M., Grzegorzewski P., Hryniewicz O.), Advances in Intelligent Systems and Computing, vol.456, 2017, Springer-Verlag, pp.293-302.
5. Lepskiy A. The Qualitative Characteristics of Combining Evidence with Discounting// in Soft Methods for Data Science (editors Ferraro M.B., Giordani P., Vantaggi B., Gagolewski M., Ángeles Gil M., Grzegorzewski P., Hryniewicz O.), Advances in Intelligent Systems and Computing, vol.456, 2017, Springer-Verlag, pp.311-318.
6. Lepskiy A. On internal conflict as an external conflict of a decomposition of evidence// Vejnárová J., Kratochvíl V. (Eds.): BELIEF 2016, 2016, LNAI 9861, Springer-Verlag, pp.25-34.
7. Lepskiy A. A Comparison of Stochastic and Fuzzy Orderings// Proc. of the First Intern. Scientific Conference “Intelligent Information Technologies for Industry” (IITI'16), AISC, 2016, vol.450, Springer, pp.27-37.
8. Bronevich A., Lepskiy A. Imprecision indices: axiomatic, properties and applications// International Journal of General Systems, 2015, vol.44, is.7-8, pp.812-832.
9. Bronevich A., Lepskiy A., Penikas H. The Application of Conflict Measure to Estimating Incoherence of Analyst's Forecasts about the Cost of Shares of Russian Companies// Procedia Computer Science, 2015, 55, pp.1113-1122.
10. Lepskiy A. On Comparison of Distorted Histograms// Strengthening Links Between Data Analysis and Soft Computing (Editors: P. Grzegorzewski, M. Gagolewski, O. Hryniewicz, M.A. Gil), Advances in Intelligent Systems and Computing, vol.315, Springer-Verlag, 2015, pp.159-166.
11. Lepskiy A. General Schemes of Combining Rules and the Quality Characteristics of Combining // F. Cuzzolin (Ed.): BELIEF 2014, LNAI 8764, Springer-Verlag, 2014, pp.29–38.
12. Lepskiy A. On the Stability of Comparing Histograms with Help of Probabilistic Methods // Procedia Computer Science, 31, Elsevier, 2014, pp.597-605.
13. Bronevich A., Lepskiy A., Umansky V., Yakushev D. Recognition of Cross Profiles of Roadbed Based on Polygonal Representations// LNCS, Springer-Verlag, 8251, 2013, pp.270–276.
14. Lepskiy A. Estimation of Conflict and Decreasing of Ignorance in Dempster-Shafer Theory// Procedia Computer Science, vol.17, 2013, pp.1113–1120.

15. Lepskiy A. Determination of Symmetry Parameters of Objects in Noisy Images// Pattern Recognition and Image Analysis, 2013, Vol.23, No.3, pp. 408–414.
16. Lepskiy A. Stochastic Measure of Informativity and Its Application to the Task of Stable Extraction of Features// Synergies of soft computing and statistics for intelligent data analysis, AISC 190, Springer-Verlag, Berlin Heidelberg, 2013, pp.553-561.
17. Lepskiy A. Stable Feature Extraction with the Help of Stochastic Information Measure// Lecture Notes in Computer Science (LNCS), vol. 6744, Berlin / Heidelberg: Springer Verlag, 2011, pp.54-59.
18. Lepskiy A.E. Symmetric Linear Imprecision Index in the Class of Lower Probabilities// Journal of Computer and Systems Sciences International, 2008, vol.47, No.2, pp.193-199.
19. Karkishchenko A.N., Lepskiy A.E. Imprecision Index and Its Application to Estimating the Prior System Information Content// Journal of Computer and Systems Sciences International, 2008, vol.47, No.1, pp. 86-92.
20. Bronevich A.G., Lepskiy A.E. Measuring uncertainty with imprecision indices// Proc. of the Fifth International Symposium on Imprecise Probabilities and Their Applications (ISIPTA'07), Prague, Czech Republic, 16-19 July 2007), p.47-56.
21. Lepskiy A.E. On stability of the center of masses of the vector representation in one probabilistic model of noisiness of an image contour/ Automation and Remote Control, vol.68, No.1, 2007, pp.75-84.
22. Bronevich A.G., Lepskiy A.E. Axiomatic approach to the task of finding optimal polygonal of counter representation/ Intellectual Systems, vol.9, issue.1-4, 2005, pp.121-134. (in Russian)
23. Karkishchenko A.N., Bronevich A.G., Lepskiy A.E. Nonadditive measures: applications to the informative processing with the high uncertainty/ Bulletin of South Science Center RAS, vol.1, issue.3, 2005, pp.90-95. (in Russian)
24. Bronevich A.G., Lepskiy A.E. Convolution operators of fuzzy measures// Soft methods in probability, statistics and data analysis. Heidelberg. New York: Physical-Verl., 2002, pp.84-91.
25. Karkishchenko A.N., Lepskiy A.E. On stability of the center of masses, vectors, and a Fourier descriptor of the representation of an image contour. Automation and remote control, vol.62, No.3, 2001, pp.474-484.
26. Bronevich A.G., Lepskiy A.E. Two approaches of seeking the minimal polygonal representation of contour// Artificial Intelligence. Journal of National Academy of Ukraine, No 3, 2000, pp. 421-427. (in Russian)
27. Lepskiy A.E. Estimation of numeric characteristics of stochastic weight in the one dimension model of noisy image contour// Intellectual CAD-98, Taganrog, 1998, No.3(13), pp.197-200. (in Russian)
28. Karkishchenko A.N., Lepskiy A.E. Point's curvature estimation for noisy planar contour// Some probability models. Intellectual CAD-98, Taganrog, 1998, No.3(13), pp.194-197. (in Russian)
29. Karkishchenko A.N., Lepskiy A.E., Bezuglov A.V. On one method for vector and analytic representation of image contour// Intellectual CAD-97, Taganrog, 1997, No.2(8), pp.107-111. (in Russian)
30. Lepskiy A.E. Criterion of superholomorphy and enclosure theorems in infinity holomorphy// Izvestiia VUZov. Matematika (Institutional) Bulletin of Higher Educational Institutions. Mathematics, 1992, No.11, pp.72-75. (in Russian)
31. Kakichev V.A., Lepskiy A.E. Some properties of holomorphic functions of counting variables set// Izvestiia VUZov. Matematika (Institutional) Bulletin of Higher Educational Institutions. Mathematics, 1989, No.4, pp.35-46. (in Russian)

E) Other

Editor of the Proceedings of the 2nd International Conference on Information Technology and Quantitative Management, ITQM 2014, Procedia Computer Science, Elsevier, Volume 31, eds. Yong Shi, Alexander Lepskiy and Fuad Aleskerov, 2014, pp.1-1176.