

MARK KELBERT: LIST OF SCIENTIFIC PUBLICATIONS

Authored Books

1. *Pulses Propagation in Fluids*. Coauthor I. Sazonov. Moscow: Nauka, 1991, 159p. (in Russian), ISBN: 5-02-000162-7
MR1189343
2. *Pulses and Other Wave Processes in Fluids*. Coauthor I. Sazonov. Dordrecht – Boston – London: Kluwer Academic Publishers, 1996, 226p., ISBN: 0-7923-3928-2
MR1383322
3. *Probability and Statistics by Example. Volume I. Basic Probability and Statistics*. Coauthor Yu. Suhov. Cambridge University Press, 2005, 382p., 2nd printing 2007
ISBN-13 978-0521-84766-7 (hardback), ISBN-13 978-0521-61233-3 (paperback)
MR2192055
4. *Probability and Statistics by Example. Volume I. Basic Probability and Statistics*. Coauthor Yu. Suhov. Cambridge University Press, Second extended edition 2014, 457p., ISBN 978-1-107-60358-5
5. *Probability and Statistics by Example. Volume I Basic Probability and Statistics*. Coauthor Yu. Suhov. Moscow: Independent University Press (in Russian), 2007, 456p. Second extended edition 2010, 485p. ISBN-978-5-94057-253-4
6. *Probability and Statistics by Example. Volume II. Markov chains: a primer in random processes and their applications*. Coauthor Yu.M.Suhov. Cambridge University Press, 2008, 487p. ISBN-13 978-0521-84767-4 (hardback), ISBN-13 978-0521-61234-0 (paperback)
MR2423218
7. *Probability and Statistics by Example. Volume II. Markov chains: a primer in random processes and their applications*. Coauthor Yu.M.Suhov. Moscow: Independent University Press (in Russian), 2010, 559p. ISBN-978-5-94057-252-7
8. *Information Theory and Coding by Example*. Coauthor Yu.M.Suhov. Cambridge University Press, 2013, 526p.
ISSN 978-0-521-76935-8 (hardback), ISSN 978-0-521-13988-5 (paperback)

9. *Information Theory and Coding by Example*. Coauthor Yu.M.Suhov. Moscow: Independent University Press, (in Russian), 2014, 568p., ISBN 978-5-4439-0154-1

Editor and translator works

1. Georgii H.O., *Phase Transitions and Critical Phenomena*, Moscow: Mir, 1992, 621p., ISBN 5-03-002104-3

Selected papers in peer-reviewed journals

1. Gertsic V., Kelbert M., Krichevetz A., Earthquake forecasting: statistics and information, *Annals of Geophysics* (submitted) ArXiv:1310.7173
2. Suhov Y., Kelbert M., Stuhl I., Shift-invariance of FK-DLR states of a 2D quantum bose-gas, *Journ. Statist. Phys.* (submitted) ArXiv:1304.4177
3. Suhov Y., Kelbert M., FK-DLR states of a quantum bose-gas, *Journ. Statist. Phys.* (submitted) ArXiv:1304.0782
4. Sazonov I., Kelbert M., Gravenor M.B., A new look on epidemic migration between SIR centra: an account of different dynamics of host and guest. ArXiv: 1401.6830v1
5. Kelbert M., Suhov Y., Yambartsev A., A Mermin-Wagner theorem on Lorenzian triangulations with quantum spins, *Brazilian Journ. Probab.* V. 28, N. 4, 2014, 515-537 ArXiv:1211.5446v1
6. Kelbert M., Suhov Y., On quantum Mermin-Wagner theorem for a generalized Hubbard model, *Advances Math. Phys.* V.2013, ID 637375, 2013 ArXiv:1210.8344v2

7. Kelbert M., Leonenko N., Belitsky V., On the Bartlett spectrum of randomized Hawkes processes, *Mathematical Communications*, V. 18, N 2, 393-407, 2013

8. Kelbert M., Suhov Y., Yambartsev A., A Mermin-Wagner theorem for Gibbs state on Lorenzian triangulations, *Journ. Statist. Phys.*, V. 150, N.4, 2013. 671-677
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10. Gofman A., Kelbert M., An upper bound for Kullback-Leibler divergence with a small number of outliers, *Mathematical Communications*, V.18, 2013, N.1, 75-78

11. Kelbert M., Sazonov I., Avram F., Uniform asymptotics of ruin probabilities for Lévy processes, *Markov Processes Related Fields*, V.18, 2012, N.4, 681-692
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12. Sazonov I., Kelbert M., Gravenor M.B., A two-stage model for the SIR outbreak: accounting for the discrete nature of the epidemic at the contamination stage, *Mathematical Bioscience*. V.234, N.2, 2011, 108-117
<http://dx.doi.org/10.1016/j.mbs.2011.09.002>
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13. Kelbert M., Sazonov I., Gravenor M.B., Critical reaction time during a disease outbreak, *Ecological Complexity*, V.8, 2011, N.4, 326-335
<http://dx.doi.org/10.1016/j.ecocom.2011.07.002>

14. Sazonov I., Kelbert M., Gravenor M.B., Travelling waves in a lattice of SIR nodes in approximation of small coupling, *Mathematical Medicine and Biology*, V.28, 2011, N.2, 165-183
DOI: 10.1093/imammb/dqq016

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15. Kelbert M., Avram F., Sazonov I. Uniform asymptotics of ruin probabilities for Lévy processes. *Progress in Analysis. Proceedings of the 8th Congress of the International Society for Analysis, its Applications and Computation (22 - 27 August 2011), Volume 2, Moscow, Peoples' Friendship University of Russia, 2012, pp.78-84*
16. Kelbert M.Ya., Sazonov I.A., Gravenor M.B. An outbreak spread and travelling waves in spatially distributed populations. *Progress in Analysis. Proceedings of the 8th Congress of the International Society for Analysis, its Applications and Computation (22 - 27 August 2011), Volume 2, Moscow, Peoples' Friendship University of Russia, 2012, pp.85-92*
17. Kelbert M., Suhov Y., Continuity of mutual entropy in the large signal-to-noise ratio limit. *Stochastic Analysis 2010*, Berlin: Springer, 2010, 281-299
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18. Kelbert M., Probabilistic representations for solutions of higher-order elliptic equations. *Further Progress in Analysis, Proceedings of the ISAAC Congress*, (Ruzhansky, Wirth ed.), Singapore: World Scientific. 2010, 418-424
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19. Kelbert M., Probabilistic representations for polyharmonic functions. *Theory Probab. Appl.* , V.54, 2009, N.2, 354-359
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20. Kelbert M., Suhov Y., Asymptotic properties of Markov processes on Cayley trees. *Analysis on Graphs and its Applications*, Amer. Math. Soc. Proceedings, V. 77, 2008, 123-138
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21. Sazonov I., Kelbert M., Gravenor M.B. Approximation for epidemic speed in a one-dimensional lattice of SIR models. *Mathematical Modelling of Natural Phenomena*, V.3, N.4, 2008, 28-47
DOI: 10.105/mmnp: 208069
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22. Kelbert M., Suhov Y., Asymptotic behaviour of a branching diffusion on a hyperbolic space, *Theory Probab. Appl.* , V.52, 2007, N.4, 660-684
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