

PUBLICATIONS

M.Nikulin a publié près de 250 articles scientifiques dans des journaux et des ouvrages scientifiques différents. En outre, il a écrit et édité plusieurs livres et volumes. Ces publications ont reçu des références positives et sont souvent citées.

Editions de volumes

1. Steklov Mathematical Institute in St. Petersburg (Journal of Soviet Mathematics)

- *Investigations on statistical estimation theory. I. Work collection*. (Co-edited with I.A.Ibragimov). Proceedings of Steklov Mathematical Institute, St. Petersburg, v. 74, "Nauka", 1977.
- *Studies on statistical estimation theory. II. Work collection*. (Co-edited with I.A.Ibragimov). Proceedings of Steklov Mathematical Institute, St. Petersburg, v. 79, "Nauka", 1978.
- *Studies on mathematical statistics. IV. Work collection*. (Co-edited with I.A.Ibragimov). Proceedings of Steklov Mathematical Institute, St. Petersburg, v. 98, "Nauka", 1980.
- *Studies on mathematical statistics. V. Work collection*. (Co-edited with I.A.Ibragimov). Proceedings of Steklov Mathematical Institute, St. Petersburg, v. 108, "Nauka", 1981.
- *Investigation on mathematical statistics. VI. Work collection*. (Co-edited with I.A.Ibragimov). Proceedings of Steklov Mathematical Institute, St. Petersburg, v. 136, "Nauka", 1984.
- *Investigation on mathematical statistics. VII. Work collection*. (Co-edited with I.A.Ibragimov). Proceedings of Steklov Mathematical Institute, St. Petersburg, v. 153, "Nauka", 1986.
- *Investigation on mathematical statistics. VIII. Work collection*. (Co-edited with I.A.Ibragimov). Proceedings of Steklov Mathematical Institute, St. Petersburg, v. 166, "Nauka", 1988.
- *Investigation on mathematical statistic. IX. Work collection*. (Co-edited with I.A.Ibragimov and V.Sudakov). Proceedings of Steklov Mathematical Institute, St. Petersburg, v. 184, "Nauka", 1990.

2. Oeuvres choisies de Yu.V. Linnik.

- *Théorie des Probabilités*, (Co-edited with Yu.V. Prokhorov and I.A.Ibragimov). Moscou : "Nauka", 1981.
- *Statistique Mathématique*, (Co-edited with Yu.V. Prokhorov and I.A.Ibragimov). Moscou : "Nauka", 1982.

Livres édités par M.Nikulin

- *Recent Advances in Reliability Theory: Methodology, Practice and Inference*, (Co-edited with N.Limnios). Boston : Birkhauser, 2000, 514 p.
- Abstracts' book of "The Second International Conference on Mathematical Methods in Reliability". (Co-edited with N.Limnios). Université Victor Segalen, 4-7 July, 2000,

- Bordeaux, France, v.1, p. 1-536.
- Abstracts' book of "*The Second International Conference on Mathematical Methods in Reliability*" (Co-edited with N.Limnios). Université Victor Segalen, 4-7 July, 2000, Bordeaux, France, v.2, p.537-1070.
 - *Goodness-of-fit Tests and Model Validity*, (Co-edited with C.Huber-Carol, N.Balakrishnan, et M.Mesbah). Boston : Birkhauser, (2002), 507 p.
 - *Parametric and Semiparametric Models with Applications to Reliability, Survival Analysis and Quality of Life*, (Co-edited with N.Balakrishnan, N.Limnios et M.Mesbah). Birkhauser: Boston, 2004. 555p.
 - *Longevity, Aging and Degradation Models* , (Co-edited with V.Antonov, C.Huber, V.Polischook). v.1., Saint Petersburg.(2004). ISBN 5-7422-0638-0
 - *Longevity, Aging and Degradation Models* , (Co-edited with V.Antonov, C.Huber, V.Polischook).v.2., Saint Petersburg. (2004). ISBN 5-7422-0638-0
 - *Probability, Statistics and Modelling* , (Co-edited with D.Commenges and C.Huber). New-York, Springer (2006), 479p.
 - *Statistical Models and Methods for Biomedical and Technical Systems*, (Co-edited with V.Vonta, N.Limnios and C.Huber). Springer/Birkhauser : Boston, (2008), 556p.
 - *Mathematical Methods in Survival Analysis, Reliability and Quality of Life* , (Co-edited with C.Huber, N.Limnios and M.Mesbah). ISTE/Wiley : London, (2008), 376p.
- A special issue of "**Lifetime Data Analysis**", in the Honor of Professor Marvin Zelen (2004), 10, #4, by invited Editors D.Commenges, C.Huber, M.Nikulin.
 - A special issue of *Asymptotic Statistics and Its Applications in Reliability and Survival Analysis* of the Proceedings of Steklov Mathematical Institute in St. Petersburg in the honor of Ildar Ibragimov (Co-edited with V.Solev and V.Sudakov), "Nauka", 2008, is in preparation.

Livres publiés par M.Nikulin

- *Statistique des essais accélérés*, 2007, London : Hermes, (Co-authored with L.Gerville-Reache, V.Couallier), 294p.
- *Accelerated Life Models*, 2002, Boca Raton : Chapman & Hall / CRC, 348 p, (Co-authored with V. Bagdonavicius).
- *Generalized Additive and Multiplicative semiparametric models in accelerated life testing and survival analysis*, Queen's Papers on Pure and Applied Mathematics, 1998. Queen's University, # 108, Kingston, Ontario, Canada, 109 p. (Co-authored with V. Bagdonavicius).
- *Unbiased estimators and their applications*, 1996, v.2 : *Multivariate case*, Dordrecht : Kluwer Academic Publishers, 262p, (Co-authored with V.G.Voinov).
- *A Guide to Chi-Squared Testing* , 1996, New York : **John Wiley & Sons**, 280 p, (avec P.E.Greenwood).
- *Algèbre* , 1995, Moscou: Nauka, 464p, (en russe, Co-authored with D.K.Faddev, I.F.Sokolovsky).
- *Semiparametric models in accelerated life testing*, Queen's Papers in Pure and Applied Mathematics, 1995, Queen's University, # 98, Kingston, Canada, 70 p, (Co-authored with V. Bagdonavicius).
- *Unbiased estimators and their applications* ", v.1 : *Univariate case*, 1993, Dordrecht : Kluwer Academic Publishers, 521 p, In English, translated from Russian (and completed), (Co-authored with V.G.Voinov).
- *Unbiased estimators and their applications*, 1989, Moscow : Nauka, 440 p, (Co-authored

with V.G.Voinov, in Russian).

- *The elements of higher mathematics for high-school* , **1989**, Moscow : Mir, 367 p., (Co-authored with D.K.Faddeev, I.F.Sokolovsky), in English.
- *Problems in algebra*, **1988**, Moscow : Prosveshchenie, 208 p.,(Co-authored with D.K. Faddeev, I.F. Sokolovsky, N.N. Lyashenko), Library for Teachers of Mathematics, (in Russian).
- *The elements of higher mathematics for high-school* , 1987, Moscow: Nauka, 336 p., (Co-authored with D.K.Faddeev, I.F.Sokolovsky), in Russian.

Activités d'Editeur

- *Probability and Mathematical Statistics : Encyclopaedia*, Big Russian Encyclopaedia : Moscow, 1999.
- The book series "*Statistics for Industry an Technology*", Birkhauser (2001-2005)
- Associate Editor for "*Journal of Statistical Planning and Inference*", (2001-2006).
- Associate Editor for the Journal "*Statistical Inference for Stochastic Processes*".

Articles publiés par M. Nikouline (1973-2008)

(Le nombre total des publications est supérieur à 250)

2008

- **143.** "Testing of the homogeneity of marginal distributions in copula models", (2008) . *Comptes Rendus de l'Academie des Sciences de Paris*, Ser . I, **345**, (with V.Bagdonavicus and S.Malov) .
- **142.** Statistical modelling, planning and Inference in Accelerated trials. (2008). *International Journal of Product Development*, v.5, #3, (with V.Bagdonavicius, L.Gerville-Reach V.Couallier) .
- **141.** Flexible regression models for dynamic prediction of survival in elderly in presence of cancer or other chronic diseases, (2008), *Advances in Gerontology* , v.21, #1, (with A.Sasco)
- **140.** Statistical analysis of redundant systems with "warm" stand-by units (2008), *Stochastics:An International Journal of Probability and Stochastic Processes*, (with V.Bagdonavicius, I.Masiulaityte.), 1-14.
- **139.** Estimation of Rescaled Distribution. (2008) . Estimation of rescaled distribution. In: : « *Statistical Models and Methods for Biomedical and Technical Systems* », (Eds. : F.Vonta, **M.Nikulin**, N.Limnios, C. Huber), **Birkhauser** : Boston, (with H. Lauter and V.Solev), 191-202.
- **138.** Extended Cox and Accelerated Models in Reliability,with General Censoring and Truncation (2008). In: : « *Statistical Models and Methods for Biomedical and Technical Systems* », (Eds. : F.Vonta, **M.Nikulin**, N.Limnios, C. Huber), **Birkhauser** : Boston, (with C.Huber-Carol), 3-22.
- **137.** Some Probabilistic Models Useful in Sport Sciences (2008). In: « *Mathematical Methods in Survival Anazysis, Reliability and Quality of Life* », (eds. C.Huber, N.Limnios, M.Mesbah, **M.Nikulin**), **ISTE&Wiley** : London, (with L.Gerville-Réache, S.Oragio, N.Paris, V.Rosa), 333-352.
- **136.** Accelerated Life testing when the Hazard Rate Function Has Cup Shape. (2008). In: « *Mathematical Methods in Survival Anazysis, Reliability and Quality of Life* », (eds. C.Huber, N.Limnios, M.Mesbah, **M.Nikulin**), **ISTE&Wiley** : London, (with V.Bagdonavicius and I.Masiulaityte), 179-188.
- Statistical Analysis of Redundant System with one Stand-by Unit. (2008). In:

« *Mathematical Methods in Survival Analysis, Reliability and Quality of Life* », (eds. C.Huber, N.Limnios, M.Mesbah, **M.Nikulin**), *ISTE&Wiley* : London, (with V.Bagdonavicius and L.Clerjaud), 189-2002.

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- The power-generalized Weibull probability distribution and its use in survival analysis. (2007). *Communications in Dependability and Quality Management*. V.10, #1, 5-15 (with R.Alloyarova, N.Pya and V.Voinov)
- **132.** Analysis of joint multiple failure mode and linear degradation data with renewals. (2007). *Journal Statistical Planning and Inference*. v.137, #7, 2191-2207. (avec V. Bagdonavičius, A. Bikelis, V. Kazakevičius).
- Some recent results on accelerated failure time models with time-varying stresses. (2007). *Quality Technology & Quantitative Management*, 4, #1, 143-155. (with L.Gerville-Reache).
- **130.** On a generalization of the classical random sampling scheme and unbiased estimation. *Communications in Statistics: Theory and Methods*. (2007), v.36, 693-705. (with Y.Lumelskii, V.Voinov, P.Fegin).
- **129.** “Tests for the equality of marginal distributions”, (2007). *Comptes Rendus de l’Academie des Sciences de Paris*, Ser. I, 344, 509-514 (with V.Bagdonavicius and R.Levulene).

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- **128.** Flexible Regression Models for Carcinogenesis Studies. (2006). *Probability and Statistics*, 10, (Eds.I.Ibragimov, V.Sudakov), V.Steklov Mathematical Institute, St.Petersburg, RAS, 78-101, (with H-D. I. Wu).
- On goodness-of-fit for homogeneity and proportional hazards. (2006). *Applied Stochastic Models in Business and Industry*, 22, 607-619. (with V.Bagdonavicius).
- **126.** Accelerated degradation model and its Applications to the statistical analysis of the role played by dementia and sex in the loss of functional autonomy in the elderly patient. (2006), *Advances in Gerontology*, v.19, 44-54. (with Barberger-Gateau, P., Bagdonavicius, V.)
- **125.** The Impact of Dementia and Sex on the Disablement in the Elderly. (2006). In: *Probability, Statistics and Modelling in Public Health*, (eds. **M.Nikulin**, C.Huber, D.Commenges), Springer: New-York, 23-36. (with P.Barberger-Gateau, V.Bagdonavicius, O.Zdorova-Cheminade).
- **124.** About one parametric degradation model used in reliability, survival analysis and quality of life. (2006). In: *Advances in Statistical methods for the health Sciences: Applications to Cancer and AIDS Studies, Genome Sequence Analysis, and Survival Analysis*. (Eds. N.Balakrishnan, J.-L. Auget, M.Mesbah, G. Molenberghs), Birkhauser: Boston, 131-142. (with Gerville-Réache, L., Orazio, S.)
- **123.** “ On statistical modelling in accelerated life testing”, (2006), *Maintenace and Reliability*, v.30, #2, 48-51. (avec L.Gerville-Réache)
- **122.** “Semiparametric Regression Estimation in Copula Models”, (2006), *Communications in Statistics, Theory and Methods*, 35, #8, 1449-1467. (avec V.Bagdonavicius and S.Malov).
- **121.** “Non-parametric estimation from simultaneous renewal-failure-degradation data with competing risk”, *Comptes Rendus de l’Academie des Sciences de Paris*, Ser. I, (2006), t. 342, 63-68, (avec V. Bagdonavičius, A. Bikelis, V. Kazakevičius).

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- Dementia and loss of functional autonomy in the elderly. (2005). *Revue Médicale de l’Assurance Maladie*. V.36, #1, 69-76. (with P.Barberger-Gateau, K.Pérès, L.Lagalaye, S.Andrew, A.Alioum).
- **119.** “Statistical modelling, planning and inference in accelerated trials” (2005). In: *Qualité*

et Sûreté de Fonctionnement,

- v.1, Act du Congrès "Qualita'2005, Bordeaux, (Eds Y.Dutuit, D.Noyes, F.Pérès), 349-357. (avec V.Bagdonavicius et L.Gerville-Réache).
- 118. « Aging and Degradation Models in Reliability and Safety», (2005), *Communications in Dependability and Quality Management*, v.8, #3, 5-10. (avec V.Bagdonavicius).
- 117. "Non-parametric estimation in degradation-renewal- failure model", (2005). In: *Probability, Statistics and Modelling in Public Health*, (eds. M.Nikulin, C.Huber, D.Commenges), Springer: New-York, 23-36. (avec V. Bagdonavicius, A. Bikelis, V. Kazakevicius).
- "Statistical analysis of survival and reliability data with multiple crossings of survival functions," (2005)
- *Comptes Rendus de l'Academie des Sciences de Paris*, Ser. I, t.340, 377-382. (avec V. Bagdonavicius).
- 115. "Statistical analysis of general degradation path model and failure time data with multiple failure modes. (2005),
- *Communication in Statistics. Theory and Methods*. v. 34, # 8, 1771-1792. (avec V.Bagdonavicius, F. Haghghi.)
- 114. "Analyse of survival data with non-proportional hazards and crossings of survival functions". (2005). In: "*Quantative Methods in Cancer and Humain Risk Assesment*", (Eds. Lutz Edler, Christos Kitsos), John Wiley and Sons: New York, 193-209. (with V. Bagdonavicius)

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- 113. Semiparametric Analysis of Degradation and Failure Time data with Covariate. (2004) . In: "*Parametric and Semiparametric Models with Applications tp Reliability, Survival Analysis and Quality of Life*", (Editeurs : M. S. Nikulin, N. Balakrishnan, N. Limnios et M. Mesbah), *Birkhauser* : Boston, 41-45. (avec V.Bagdonavicius).
- 112. " Tests for equality of survival distributions against non-location alternatives". (2004). *Lifetime Data Analysis*, 10, #4, 445-460. (avec V. Bagdonavicius, R. Levulienne, O. Cheminade).
- 111. « Nonparametric estimation of the renewal characteristics from the non-renewal data », (2004), In : "Longevity, Aging and Degradation Models", v.2., p. 22-30. (ISBN 5-7422-0638-0).(avec V. Bagdonavicius, A. Bikelis, V. Kazakevicius).
- 110. « Problème d'estimation statistique et epsilon-entropie de Kolmogorov », (2004). Dans : L'héritage de Kolmogorov en Mathématique, (Eds. E. Charpentier, A. Lesne, N. Nikolski), Belin : Paris., 120-146. (avec V. Solev).
- 109. « Statistical planning and inference in accelerated life testing using the CHSS model », (2004). *Journal of the Statistical Planning and Inference*, v. 126, 535-551. (avec V. Bagdonavicius, O. Cheminade).
- 108. « Tests d'égalité contre alternative décroissement de deux fonctions de survie » (2004), *Comptes Rendus de l'Académie des Sciences de Paris*, Ser. I, v.339, p. 425-428, (avec V. Bagdonavicius et R. Levulienne),
- 107. « Analysis of survival data with cross-effects of survival functions », (2004). *Biostatistics*, 5, #3, 415-425 , (avec V. Bagdonavicius et M. Hafdi).
- Stochastic Modeling in survival analysis and its influence on duration analysis. (2004). Dans : « *Advances in Survival Analysis* ». (Eds: N. Balakrishnan and C. R. Rao), In:

Handbook in Statistics ; *Advances in Survival Analysis*, v. **23**, Elsevier, 411-429. (avec V. Bagdonavicius).

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- **105.** « A new statistics for detecting outliers in exponential case », (2003). *Communications in Statistics : Theory and Methods*, v. **32**, 573-584. (avec A. Zerbet).
- **104.** « Chi-square type test for Power Generalized Weibull Family » (2003). Dans : "Advances in statistical inferential methods: theory and applications" (Ed. by V. Voinov), **Gylym** : Almaty, ISBN 9965-07-253-, p.89-105.(avec F.Haghighi).
- « Semiparametric statistical analysis for aging and longevity ». (2003). Dans : "Advances in statistical inferential methods: theory and applications" (Ed. by V. Voinov), **Gylym** : Almaty, p.17-30.. (avec V. Bagdonavicius).
- **102.** « Estimation from simultaneous degradation and failure time data », (2003). In : *Mathematical and Statistical Methods in Reliability*, Proceedings of the Third Int'l. Conf. on Mathematical Methods in Reliability, Trondheim, Norway
- (B. Lindqvist and Kjell A Doksum, eds.), **World Scientific Publishing**, Series on Quality, Reliability and Engineering Statistics, 7. (avec V. Bagdonavicius, A. Bikelis, V. Kazakevicius).
- **101.** "Statistical analysis of the Generalised Linear Proportionnal Hazards model ", (2003). Proceedings of the Steklov Mathematical Institute, St.Petersburg, : **Probability and Statistics**, 6., v.294, p.5-18, (ISSN 0373-2703),
- (with V. Bagdonavicius, M. Hafdi, K. El Himdi)

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- **100.** «The Generalized Proportional Hazards Model and its Application for Statistical Analysis of the Hsieh Model». (2002). In : Proceedings of « *The Second Euro-Japanese Workshop on Stochastic Risk Modelling for Finance, Insurance, Production and Reliability* », September 18-20, Chamonix, France, (Eds. T. Dohi, N. Limnios, S. Osaki),
- p. 42-53. (avec V. Bagdonavicius, M. Hafdi.) <http://www.dma.utc.fr/Workshop/index.htm>
- 99. "Détection des observations aberrantes par des méthodes statistiques", *Revue de Statistique Appliquée*, (2002), L, #3, 25-51. (avec A. Zerbet).
- **98.** "Non-parametric estimation from simultaneous degradation and failure data", (2002), **Comptes Rendus, Académie des Sciences de Paris**, v. **335**, 183-188, (avec V. Bagdonavicius, A. Bikelis, V. Kazakevicius),
- **97.** "Multivariate discrete distributions induced by an urn scheme, linear diophantine equations, unbiased estimating and testing". (2002) *Journal of Statistical Planning and Inference*, v. **101**, #1-2, 255-266 (avec T. Smirnov, V. Voinov).
- **96.** "On parametric inference for step-stresses models", (2002), *IEEE Transaction on Reliability*. (avec
- V. Bagdonavicius, L. Gerville-Réache), #1,27-31 .
- **95.** "Testing Problem for Increasing Function in a Model with Infinite Dimensional Nuisance Parameter", (2002) In: *Goodness-of-fit Tests and Model Validity*, (Eds. C. Huber, N. Balakrishnan, M. Nikulin and M. Mesbah), Boston : **Birkhauser**. 477-494. (avec V.Solev) .
- **94.** "Goodness-of-fit Tests for Accelerated Life Models", (2002). In: *Goodness-of-fit Tests and Model Validity*, (Eds.
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- 92. "Mathematical Models in the Theory of Accelerated Experiments", (2001) In: *Mathematics and the 21st Century*, Singapore: **World Scientific** (Eds. A. A. Ashor and A.-S. F. Obada), 271-303. (with V. Bagdonavicius)
- 91. "Estimation in Degradation Models with Explanatory variables", (2001), *Lifetime Data Analysis*, 7, #1, 85-103. (avec V. Bagdonavicius).
- 90. "On goodness-of-fit for accelerated life models", (2001), *Comptes Rendus, Academie des Sciences de Paris*, 332, #1, Série I, p. 171-176 (avec V. Bagdonavicius).
- 89. « A Probabilistic Description of Radioactive Contamination: a multivariate model », (2001), *Applied Radiation and Isotopes*, 54, 355-363. (avec M. Novak, T. Smirnov, V. Voinov, G. Krasnov).
- 88. « Estimation of cycling effect on reliability », (2001). Dans : *Proceedings of International Conference on Recent Advances in Probability and Statistics, the Volume in Honor of Prof. Cacoullos*, (Eds. Ch. Charalambides, M. Koutras, N. Balakrishnan), Boca Raton : **Chapman and Hall / CRC**. (avec V. Bagdonavicius), 537-545.

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- 87. « A Probabilistic Description of Radioactive Contamination », (2000), *Applied Radiation and Isotopes*, 52, 993-1002. (avec M. Novak, T. Smirnov, V. Voinov).
- 86. « Analyse statistique du modèle de Makeham », (2000), *Revue Roumaine Math. Pure et Appl.*, 45, #6, 947-957. (avec L. Gerville-Réache).
- 85. « Expériences Accélérées : Analyse Statistique du Modèle Standard de Vie Accélérée », (2000), *Revue de Statistique Appliquée*, #3, 5-38. (avec V. Bagdonavicius, L. Gerville-Réache, V. Nikoulina.)
- 84. « Semiparametric Estimation in Accelerated Life Testing », Dans : « *Mathematical Methods in Reliability : Methodology, Practice and Inference-MMR'2000* », Boston : **Birkhauser**, (Eds. N. Limnios & M. Nikulin), 2000. (avec V. Bagdonavicius), 405-418.
- 83. « Unbiased Estimators in Reliability and Similar Problems », In : « *Recent Advances in Reliability Theory : Methodology, Practice and Inference-MMR'2000* », Boston **Birkhauser**, (Eds. N. Limnios & M. Nikulin), 2000. (avec V. Voinov), 435-448.
- 82. "Modèle statistique de dégradation avec des covariables dépendant de temps ", (2000), *Comptes Rendus de l'Académie des Sciences de Paris*, 330, #2, Série I, p. 131-134 (avec V. Bagdonavicius).
- 81. " Estimating Environmental Radioactive Contamination in Kazakhstan", (2000), *Central Asian Journal of Economics, Management and Social Research*, # 1, 59-71. (ISBN 9965-9047-3-1) (avec V. Voinov, M. Novak, D. Turetayev).
- 80. " On goodness-of-fit for the Linear Transformation and Frailty models", (2000), *Statistics and Probability Letters*, v.47, #2, 177-188. (avec V. Bagdonavicius).
- 79. " On nonparametric estimation in accelerated experiments with step-stresses ", (2000), *Statistics*, v. 31, #4, 349-365, (avec V. Bagdonavicius).

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- 77. " Model Buildings in Reliability", (1999) In : *Probabilistic and Statistical Models in Reliability*, Eds. N. Limnios and D. Ionescu), Boston : **Birkhauser**, 51-74, (avec V. Bagdonavicius).
- 76. "On Nonparametric Estimation From Accelerated Experiments", (1999). In : *Probabilistic and Statistical Models in Reliability*, Eds. N. Limnios and D. Ionescu, **Birkhauser**, Boston, 75-90, (avec V. Bagdonavicius).

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- 74. " Estimation in generalized proportional hazards model ", (1998), *Comptes Rendus de l'Academie des Sciences de Paris*, Série I, t.326, 1415-1420. (avec V. Bagdonavicius).
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- 71. " Bolshev's method of confidence interval construction", (1997), *Qüestio*, 21,# 3, 549-562. (avec V. Bagdonavicius et V. Nikoulina).
- 70." Remarques sur le maximum de vraisemblance ", (1997), *Qüestio*, 21, # 1-2, p. 37-58 (avec C. Huber).
- 69." Statistical analysis of the generalized additive semiparametric survival model with random covariates ", (1997), *Qüestio*, 21, # 1-2, p. 273-291 (avec V. Bagdonavicius).
- 68. " Sur l'application des stress en escalier dans les expériences accélérées ", (1997), *Comptes Rendus de l'Academie des Sciences de Paris*, 325, Série I, p. 523-526 (avec V. Bagdonavicius).
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- p. 269-275 (with V. Bagdonavicius).
- 66. "Transfer functionals and semiparametric regression models ", (1997), *Biometrika*, v. 84, 2, p. 365-378 (avec
- V. Bagdonavicius).
- 65. " Unbiased Estimation for a Multivariate Exponential whose Components have a Common Shift ",(1997), *Journal of Multivariate Analysis*, 63, # 2, p. 199-221 (avec L. Bordes & V. G. Voinov).
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- 63." On some statistical and probability problems related to unipartite and multipartite partitions ",(1997), *Revue Roumaine de mathématiques Pures et Appliquées*, v. 42, # 1-2, p. 163-178. (avec V. Voinov).
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(total number more than **80**)

- Chi-squared test, Composite hypothesis, Consistent estimator, Consistent test, Contrast, Cramer-von Mises test, Critical value, Critical function, Critical region.
- Decision function, Dispersion ellipsoid, Distribution, complete family of.
- Efficiency of a statistical procedure, Efficient test, Efficient estimator, Equivariant estimator, Excess coefficient.
- Hellinger distance, Hotelling test, Hunt-Stein theorem.

- Inefficient statistic, Interval estimator, Invariant statistic, Invariant test.
- Kolmogorov test, Kolmogorov-Smirnov test.
- Likelihood equation, Likelihood-ratio test.
- Mann-Whitney test, Maximal invariant, Maximin criterion, Minimax estimator, Minimax statistical procedure, Most-powerful test.
- Neyman method of confidence intervals, Neyman-Pearson lemma, Neyman structure, Non-parametric test, Nuisance parameter.
- Omega-squared distribution, Order statistic.
- Permutation test, Pitman estimator, Point estimator, Power of a statistical test, Power function of a test.
- Randomization, Randomization test, Rank statistic, Rank test, Rank vector, Rao-Blackwell-Kolmogorov theorem, Rao-Cramer inequality, Renyi test, Risk of a statistical procedure.
- - Simple hypothesis, Significance level, Statistical hypothesis, Similar test, Superefficient estimator, Sheppard - corrections, Statistical test, Statistical hypotheses (verification of), Sign test, Similar statistic,
- Significance test, Statistics.
- Unbiased estimator.

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- Asymptotically Unbiased Estimator
- Beta Approximation, Biased Estimator
- Chi-Squared Test, Confidence Set, Confidence Interval, Correction for Continuity, Correlogram, Constrained Least Squared Method,
- Dispersion of a Sample,
- Ellipsoid of Concentration, Efficient Estimator, Efficiency of Statistical Procedure,
- Fisher Transformation, Fisher Z-transformation,
- Gamma Approximation, Goodness-of-Fit Test,
- Hotteling Test,
- Least Square Method, Least Favorable Distribution, Linear Hypothesis, Linear Interpolation, Linear Regression
- Mann-Whitney Test, Median Unbiased Estimator, Minimax Property of Statistical Procedure, Modal Unbiased Estimator, Mode, Most Powerful Test, Most Accurate Bound, Most Accurate Unbiased Confidence Set,
- Nonparametric Test, Neyman's Methods of Confidence Intervals, Neyman-Pearson Lemme, Neyman Structure,
- Observation Error,
- Omega-squared test,
- Pearson's Transformation, Pitman Estimator, Polinomial Regression, Proceeding of Observation, Power Function of a Test
- Random Error, Rank Statistic, Rank Test, Randomization/Permutaion Test, Rao-Blackwell-Kolmogorov Theorem, Regression Function, Regression Equation, Renyi Test,
- Sample mean, Sample Variance, Sign Test, Significance Test, Sheppard's Correction for Grouping, Sheppard's Correction for Disceting, Statistical Procedure, Statistic, Statistical Characteristic, Stratified Sample, Systematic Error,
- Theory of Errors, Three simga rule,
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