



PROGRAM of the International Workshop

APPLIED METHODS OF STATISTICAL ANALYSIS.
APPLICATIONS IN SURVIVAL ANALYSIS,
RELIABILITY AND QUALITY CONTROL

Novosibirsk,
25-27 September, 2013

25 September 2013

9.00 – 10.00	Registration
10.00 – 10.10	Opening Ceremony
10.10 – 10.35	A. Gorbunova, B. Lemeshko, S. Lemeshko, A. Rogozhnikov Application of Nonparametric Goodness-of-Fit Tests for Composite Hypotheses in Case of Unknown Distributions of Statistics
10.35 – 11.00	P. Philonenko, S. Postovalov A Power Comparison of Homogeneity Tests for Randomly Censored Data
11.00 – 11.30	Coffee Break
11.30 – 13.00	<u>Keynote Lecture</u> : Prof. G. Mikhailov Remarks about Algorithms of Statistical Simulation
13.00 – 14.00	Lunch
14.00 – 14.25	I. Medvedev Monte-Carlo Estimators with Branching for the Solution of the System of the Integral Equations
14.25 – 14.50	G. Mikhailov, S. Ukhinov Some Problems of Statistical Simulation of the Polarized Radiation Transfer
14.50 – 15.15	A. Burmistrov, M. Korotchenko Parametric Analysis of the Solution to Smoluchowski Equation by Weight Simulation of Multi-Particle System
15.15 – 15.40	N. Kargapolova, V. Ogorodnikov Stochastic Models of Periodically Correlated Non-Gaussian Processes
15.40 – 16.05	V. Ogorodnikov, O. Sereseva Numerical Stochastic Model of Indicator Fields of Daily Sums of Liquid Precipitation
16.05 – 16.30	Coffee Break
16.30 – 16.55	K. Litvenko Observations-Based Stochastic Simulation of the Sea Surface Undulation and Extreme Ocean Waves
16.55 – 17.20	O. Makhotkin Simulation of Random Variates by Approximation
17.20 – 17.45	A. Voytishek Joint Use of Monte Carlo and Geostatistical Techniques for Global Estimating of Functions Presented in an Integral Form
17.45 – 18.10	V. Antyufeev Pattern Recognition by the Monte Carlo Method
19.00 – 23.00	Gala Dinner

26 September 2013

9.00 – 9.30	A. Korneeva, N. Sergeeva, E. Chzhan About Data Analysis In Non-Parametric Identification Problem
9.30 – 10.00	A. Medvedev About non-parametric control by dynamic systems
10.00 – 10.30	A. Strelnikov, A. Medvedev On Systems with “Tube” Structures
10.30 – 11.00	I. Foxx, I. Glukhova, G. Koshkin Nonparametric Algorithms of Identification, Forecasting and Control
11.00 – 11.30	Coffee Break
11.30 – 13.00	<u>Keynote Lecture:</u> Prof. M. Nikulin Reliability Approach in Statistical Modeling of Credit Risk
13.00 – 14.00	Lunch
14.00 – 14.30	V. Demin, E. Chimitova Selection of the Optimal Smoothing Parameter for the Nonparametric Estimation of the Regression Reliability Model
14.30 – 15.00	M. Krnjajic, D. Draper Quantifying the Price of Uncertainty in Bayesian Models
15.00 – 15.30	S. Mase, Y. Yamaguchi Estimation of Unconditional Distributions from Data obeying Conditional Distributions
15.30 – 16.00	M. Molina, M. Mota, A. Ramos Modeling in Random Environments through Two-Sex Branching Processes
16.00 – 16.30	Coffee Break
16.30	Bus to the Opera and Ballet Theatre

27 September 2013

9.00 – 9.30	A. Antonik, S. O'Brien, S. Malov Whole Genome Sequence Coverage Estimation Re-examined
9.30 – 10.00	S. Postovalov, A. Ziegler, E. Konomanina Optimal Discrete Two-Stage Study Design for Genome-Wide Association Studies
10.00 – 10.30	S. Malov, S. O'Brien On Survival Categorical Methods with Applications in Epidemiology and AIDS Research
10.30 – 11.00	M. Semenova, A. Bitukov Parametric Models in the Analysis of Patients with Multiple Myeloma
11.00 – 11.30	Coffee Break
11.30 – 13.00	<u>Keynote Lecture:</u> Prof. Balakrishnan One-Shot Device Testing and Analyses
13.00 – 14.00	Lunch
14.00 – 14.30	S. Zolotukhin, V. Kurasov Asymptotics of the Embryos Number for the Double Stochastic Model of First Order Phase Transitions
14.30 – 15.00	V. Volkova, V. Pankina The Research of Distribution of the Ramsey RESET-Test Statistic
15.00 – 15.30	A. Kovalevskii A Regression Model for Prices of Second-Hand Cars
15.30 – 16.00	A. Lysyak, B. Ryabko Universal Coding and Decision Trees for Nonparametric Prediction of Time Series with Large Alphabets
16.00 – 16.30	D. Lisitsin Robust Estimation of Mixed Response Regression Models
16.30 – 17.00	Coffee Break
18.00 – 23.00	Social Program