10th International Conference

2013

Minsk, Belarus

COMPUTER DATA ANALYSIS AND MODELING:

THEORETICAL AND APPLIED STOCHASTICS

Program

Belarusian State University

September 10–14, 2013,

Organizers

BELARUSIAN STATE UNIVERSITY
VIENNA UNIVERSITY OF TECHNOLOGY
RESEARCH INSTITUTE FOR APPLIED PROBLEMS OF MATHEMATICS AND INFORMATICS
INSTITUTE OF MATHEMATICS OF THE NATIONAL ACADEMY OF SCIENCES OF BELARUS
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I. Pirshtuk, V. Voloshko – Accommodation, arrival, departure
M. Maltsew, E. Vechorko – Transport service

Conference Schedule

Tuesday — **Main Building of the BSU, room 110, 4 Nezavisimosty av.** — **September 10**

8.00–20.00	**Registration**
15.00 – 19.00	**Walking city tour**

Wednesday — **September 11**

9.00 – 9.30	**Opening ceremony**
9.30 –13.00	**Plenary presentations**
14.15 – 18.00	**Section presentations**
18.00 – 22.00	**Welcome Party**

Thursday — **September 12**

9.00 – 13.00	**Plenary presentations**
14.15 – 18.00	**Section presentations**
19.00	**Theaters**

Friday — **September 13**

9.00 – 13.00	**Plenary presentations**
14.15 – 17.40	**Section presentations**
17.40 – 18.00	**Closing session**
18.00	**Amateur Music Party**

Saturday — **September 14**

9.00–16.00	**Excursion**
	Departure

Everyday — **September 11, 12, 13**

10.30 – 10.50, 15.40–16.00	**Coffee Break**
13.00 – 14.15	**Lunch Time**

(lunches are not included into the registration fee)

Time and Place of Sessions

Room	R0	R0	R1	R2
Time	9.00-13.00	14.15-18.00	14.15-18.00	14.15-18.00
Sep.11	O, P	S1	S2	S4
Sep.12	P	S3	S5	
Sep.13	P	S6, C	S7	

P – *Plenary,* **S1–S7** – *Sections,* **O** – *Opening,* **C** – *Closing*

The Conference sessions will be held in the building of Lyceum of BSU, Ulianovskaya str., 8.

Scientific program

Wednesday, September 11

Time	Chair: Prof. Yu. Kharin	Plenary presentations
9.00–9.30		Opening ceremony
9.30–10.00	**P. Filzmoser**	*Opening Lecture:* A PROJECTION-PURSUIT METHOD FOR SPARSE ROBUST PCA
10.00–10.30	**R. Fried, H. Elsaied, T. Liboschik, K. Fokianos, S. Kitromilidou**	ON OUTLIERS AND INTERVENTIONS IN COUNT TIME SERIES FOLLOWING GLMs
10.50–11.20	**C. Francq, S.G. Meintanis**	FOURIER–TYPE ESTIMATION OF THE POWER GARCH MODEL WITH STABLE–PARETIAN INNOVATIONS
11.20–11.50	**E. Stoimenova**	RANK TESTS FOR MULTI-SAMPLE LOCATION PROBLEM
11.50–12.20	**G.L. Shevlyakov, P.O. Smirnov, N.S. Lyubomishchenko,**	SOME REMARKS ON ROBUST ESTIMATION OF POWER SPECTRA
12.20–12.50	**Y.S. Mishura, K.V. Ralchenko, G.M. Shevchenko**	PARAMETER ESTIMATION IN THE MODELS WITH LONG-RANGE DEPENDENCE

14.15–17.40	Section presentations

Section 1		Robust and Multivariate Data Analysis
Time	**Chair: Prof. E. Stoimenova**	
14.15–14.40	**C. Mert, P. Filzmoser, K. Hron**	SPARSE PRINCIPAL BALANCES FOR HIGH-DIMENSIONAL COMPOSITIONAL DATA
14.40–15.00	**B.A. Zalesky**	REGRESSION SMOOTHING KALMAN FILTER
15.00–15.20	**L.K. Shiryaeva**	THE JOINT DISTRIBUTION OF THE STANDARDIZED MAXIMUM AND STANDARDIZED MINIMUM FOR A NORMAL SAMPLE
15.20–15.40	**D.M. Esaulov**	APPLICATION OF RESIDUAL EMPIRICAL PROCESSES TO ROBUST LINEAR HYPOTHESES TESTING IN AUTOREGRESSION

16.00–16.15	**M.M. Luz, M.P. Moklyachuk**	ROBUST INTERPOLATION PROBLEM FOR STOCHASTIC SEQUENCES WITH STATIONARY INCREMENTS
16.15–16.30	**K. Andrea, G.L. Shevlyakov, P.O. Smirnov**	DETECTION OF OUTLIERS WITH BOXPLOTS
16.30–16.45	**A. Doronin**	SEMIPARAMETRIC ESTIMATION IN MIXTURE MODELS WITH VARYING MIXING PROBABILITIES
16.45–17.00	**E.E. Zhuk**	ASSIGNMENT OF MULTIVARIATE SAMPLES TO THE FIXED CLASSES BY THE MAXIMUM LIKELIHOOD METHOD AND ITS RISK
17/00–17.15	**M.V. Maltsew**	ON STATISTICAL ESTIMATION FOR MARKOV CHAIN OF CONDITIONAL ORDER
17.15–17.30	**V.P. Kirlitsa**	ABOUT D- AND A-OPTIMAL DESIGNS OF EXPERIMENTS
17.30–17.45	**V.I. Lobach**	ON ROBUST KALMAN FILTERING WITH USING WAVELET ANALYSIS
17.45–18.00	**S.Yu. Chernov, A.Yu. Kharin**	ERROR PROBABILITIES FOR SEQUENTIAL TESTING OF SIMPLE HYPOTHESES UNDER FUNCTIONAL DISTORTIONS IN THE L2-METRIC

Section 2 — Statistical Analysis of Time Series and Stochastic Processes

Time	Chair: Prof. R. Fried	
14.15–14.40	**M.V. Boldin**	ON QUALITATIVELY ROBUST SIGN TEST IN RANDOM WALK MODE
14.40–15.00	**V.V. Tomashyk**	PROPERTIES OF OPTIMAL STOPPING AND EXIT TIMES FOR DIFFUSION PROCESSES AND RANDOM WALKS
15.00–15.20	**K. Dučinskas, M. Karaliuté, I. Šimkiené**	MISCLASSIFICATION PROBABILITY BASED ON LINEAR DISCRIMINANT FUNCTION FOR SAR ERROR MODELS
15.20–15.40	**A.D. Egorov**	APPROXIMATE FORMULAS FOR EXPECTATION OF FUNCTIONALS FROM SOLUTION TO STOCHASTIC EQUATION WITH RANDOM MEASURE
16.00–16.20	**L.A. Yanovich**	ON FORMULAS OF LINEAR INTERPOLATION FOR OPERATORS GENERATED BY SOLUTIONS OF STOCHASTIC DIFFERENTIAL EQUATIONS

16.20–16.40	**I.I. Dubovetska, M.P. Moklyachuk**	MINIMAX EXTRAPOLATION PROBLEM FOR PERIODICALLY CORRELATED PROCESSES
16.40–17.00	**V.A. Valoshka, Yu.S. Kharin**	ON COMPARISON OF CLASSICAL AND CEPSTRUM-BASED FORECASTS
17.00–17.20	**V.S. Mukha, M.V. Prishchepchik**	MODELING OF SPATIAL QUEUES SYSTEM
17.20–17.40	**I.A. Badziahin**	ON PARAMETERS ESTIMATION OF AUTOREGRESSIVE TIME SERIES UNDER RIGHT CENSORING
17.40–18.00	**S.V. Lobach**	PREDICTION OF TIME SERIES BASED ON STATE SPACE MODEL

Section 4 — Computer Simulation of Stochastic Systems

Time	Chair: Prof. Yu. Pavlov	
14.15–14.40	**A. Zilinskas**	ON STATISTICAL MODELS BASED MULTI-OBJECTIVE OPTIMIZATION
14.40–15.00	**Y.S. Mishura, G.M. Shevchenko**	PARAMETER ESTIMATION FOR DIFFUSION PROCESSES: UNKNOWN FACTS IN THE WELL-KNOWN THEORY
15.00–15.20	**N.V. Koplyarova, N.A. Sergeeva**	IDENTIFICATION OF NONLINEAR DYNAMICAL SYSTEMS UNDER CONDITIONS OF LITTLE A PRIORY INFORMATION
15.20–15.40	**A.V. Medvedev**	H-MODELS FOR NON-INERTIA SYSTEMS WITH DELAY
16.00–16.20	**E.A.Chzhan, A.A.Korneeva, N.A.Sergeeva**	ABOUT DATA ANALISIS IN NONPARAMETRIC IDENTIFICATION PROBLEM
16.20–16.40	**M. Matalytski, T. Rusilko, A. Pankov**	ASYMPTOTIC ANALYSIS OF THE CLOSED QUEUEING STRUCTURE WITH TIME-DEPENDENT SERVICE PARAMETERS
16.40–17.00	**V.V. Naumenko, M.A. Matalytski**	ANALYSIS OF G-NETWORK AT TRANSIENT BEHAVIOR AND ITS APPLICATION
17.00–17.20	**O.M. Kiturko, M.A. Matalytski**	EXPECTED INCOME OF QUEUEING STRUCTURE AND ITS APPLICATION IN TRANSPORT LOGISTIC
17.20–17.40	**H. Aheyeva**	ON HYPOTHESIS TESTING FOR REGRESSION MODEL UNDER CLASSIFICATION OF DEPENDENT VARIABLE
17.4 0–18.00	**E.V. Kosareva**	INCOME FORECASTING IN HM-NETWORK WITH TIME-DEPENDENT PARAMETERS

Thursday, September 12

Time	Chair: Prof. P. Filzmoser	Plenary presentations
09.00–9.30	**A.M. Zubkov, M.V. Filina**	DIFFERENCES BETWEEN THE PEARSON STATISTICS DISTRIBUTION FUNCTION AND (NON)-CENTRAL CHI-SQUARE DISTRIBUTION FUNCTION
09.30–10.00	**Yu. S. Kharin**	LONG-MEMORY DISCRETE-VALUED TIME SERIES: MODELS AND METHODS
10.00–10.30	**R. Karbauskaitė, G. Dzemyda**	INVESTIGATION OF THE MAXIMUM LIKELIHOOD ESTIMATOR OF INTRINSIC DIMENSIONALITY
10.50–11.20	**A.V. Kolchin, E.G. Ionkina**	ON ACQUISITION OF NOCICEPTIVE EVOKED POTENTIALS IN RATS CEREBRAL CORTEX
11.20–11.50	**M.M. Leri, Yu.L. Pavlov**	POWER-LAW GRAPHS ROBUSTNESS AND FOREST FIRES
11.50–12.15	**A. Yu. Kharin**	SEQUENTIAL TESTING OF PARAMETRIC HYPOTHESES: PERFORMANCE, ROBUSTNESS AND APPLICATION
12.15–12.40	**D. Perrotta, M. Riani, A. Cerioli, F. Torti**	SCALABILITY PROPERTIES OF A NEW FORWARD SEARCH ALGORITHM
12.40–13.05	**V. Witkovský**	ON THE EXACT TOLERANCE INTERVALS FOR UNIVARIATE NORMAL DISTRIBUTION

14.15–17.40 **Section presentations**

Section 3 — Probabilistic and Statistical Analysis of Discrete data

Time	Chair: Prof. A. Zubkov	
14.15–14.40	**A.M. Zubkov**	IMPROVED ESTIMATES OF THE TOTAL VARIATION DISTANCE FOR INDEPENDENT EXPERIMENTS
14.40–15.00	**V.I. Kruglov, A.M. Zubkov,**	WEIGHT SPECTRA OF RANDOM LINEAR CODES
15.00–15.20	**E.V. Korotkov, M.A. Korotkova, Y.M. Suvorova**	PAIR CHANGE POINTS OF THE TRIPLET PERIODICITY OF GENES
15.20–15.40	**Yu.S. Kharin, M.K. Zhurak**	ON STATISTICAL ESTIMATION OF PARAMETERS FOR POISSON CONDITIONAL AUTOREGRESSIVE MODEL BY SPACE-TIME DATA

16.00–16.20	**E.V. Khil**	MARKOV PROPERTIES OF GAPS BETWEEN LOCAL MAXIMA IN A SEQUENCE OF INDEPENDENT RANDOM VARIABLES
16.20–16.40	**D.O. Menshenin, A.M. Zubkov**	HYPOTHESES TESTING FOR BINARY SEQUENCES OBTAINED BY THE NEUMANN TRANSFORM
16.40–17.00	**A.A. Serov**	ON THE NUMBER OF SUBFUNCTIONS OF RANDOM BOOLEAN FUNCTION WHICH ARE CLOSE TO THE AFFINE FUNCTIONS SET
17.00–17.15	**A.V. Shilkin, A.L. Kostevich**	ON THE POWER OF TEST FOR RANDOMNESS ON THE BASE OF LEMPEL–ZIV PREDICTOR
17.15–17.3 0	**Y.M. Suvorova, E.V. Korotkov**	STUDYING OF GENOME-SPECIFICITY OF TRIPLET PERIODICITY
17.30–17.45	**A.V. Sidorenko, K.S. Mulyarchik**	THE ANALYSIS OF THE AVALANCHE EFFECT IN DISCRETE CHAOTIC MAPS
17.45–18.00	**E.V. Vecherko**	ON STATISTICAL ANALYSIS OF EMBEDDING IN BINARY MARKOV CHAIN

Section 5 — Computer Data Analysis in Applications

Time	Chair: Prof. G. Dzemyda	
14.15–14.35	**J. Bernatavičiené, G. Bazilevičius, G. Dzemyda, V. Medvedev**	COMPARATIVE ANALYSIS OF SIMILARITY MEASURES FOR MEDICAL STREAMING DATA
14.35–15.55	**N.S. Konnova, M.A. Basarab**	DIGITAL SIGNAL PROCESSING OF BLOOD FLOW VOLUME VELOCITY DOPPLER SENSOR BASED ON NONLINEAR DYNAMICS METHODS
15.55–15.15	**S. Bělašková, E. Fišerová**	APPLICATION OF COX REGRESSION MODEL FOR LEFT-TRUNCATED DATA
15.15–15.40	**E.V. Perekhodtseva**	THE MODEL OF THE STOCHASTIC OPTIMIZATION OF THE AUTOMATED FORECAST OF DANGEROUS SQUALLS AND RNADOES OVER THE TERRITORY OF BELARUS
16.00–16.15	**V.A. Kovalev, V.A. Liauchuk, I.U. Safonau**	EXAMINING THE FEASIBILITY OF PREDICTING DRUG RESISTANCE OF LUNG TUBERCULOSIS USING IMAGE DATA
16.15–16.30	**V.A. Kovalev, M. Alilou**	A STOCHASTIC RESHAPABLE CONTOUR MODEL FOR MICROSCOPIC IMAGE SEGMENTATION
16.30–16.45	**M.S. Abramovich, M.M. Mitskevich**	ROBUST SPATIO-TEMPORAL CLUSTER ANALYSIS OF DISEASE

16.45–17.00	**M.A. Basarab, I.P. Ivanov, A.V. Kolesnikov, L.I. Kolobaev**	UNIVERSITY CORPORATIVE NETWORK TRA_C ANALYSIS BASED ON THE METHODS OF NONLINEAR DYNAMICS
17.00–17.15	**D.A. Viattchenin**	A NEW APPROACH TO REDUCTION OF LARGE DATA SET
17.15–17.30	**K. Navickaya, B. Zhelezko**	THE ANALYSIS OF THE INFLUENCE OF THE INFORMATION SOCIETY'S DEVELOPMENT ON THE ECONOMIC PERFORMANCE IN REGIONS OF BELARUS
17.30–17.45	**A.M. Kapusta**	TWO-STEP PROCEDURE TO DETECT MODIFIED JPEG IMAGES
17.45–18.00	**E.S. Makarova, V.M. Buloychik**	DECISION-MAKING DURING COMPUTER SIMULATION
17.45–18.00	**V.I. Nikitenok**	FAST NONPARAMETRIC ALGORITHM FOR CHANGE POINT DETECTION IN STOCHASTIC PROCESS

Friday, September 13

Time	Chair: Prof. Y.S. Mishura	Plenary presentations
09.00–9.30	**S. Aivazian, M. Afanasiev, V. Rudenko**	SOME SPECIFICATION ASPECTS FOR THREE-FACTOR MODELS OF A COMPANY'S PRODUCTION POTENTIAL TAKING INTO ACCOUNT INTELLECTUAL CAPITAL
9.30–10.00	**R. Rudzkis, A. Bakshaev**	GOODNESS OF FIT TESTS BASED ON KERNEL DENSITY ESTIMATORS
10.00–10.30	**Maria-Pia Victoria-Feser**	GENERALIZED METHOD OF WAVELET MOMENTS FOR THE ESTIMATION OF COMPOSITE STOCHASTIC MODELS
10.50–11.15	**M. Templ**	PROVIDING DATA WITH HIGH UTILITY AND NO DISCLOSURE RISK FOR THE PUBLIC AND RESEARCHERS: AN EVALUATION BY ADVANCED STATISTICAL DISCLOSURE RISK METHODS
11.15–11.40	**V. Todorov, P. Filzmoser**	R TOOLS FOR ROBUST STATISTICAL ANALYSIS OF HIGH—DIMENSIONAL DATA
11.40–12.05	**E. Fišerová, L. Kubáček**	SOME REMARKS ON DECOMPOSITION OF PARTITIONED MULTIVARIATE MODELS INTO TWO SEEMINGLY UNRELATED SUBMODELS
12.05–12.30	**V. Malugin**	TESTING FOR STRUCTURAL HETEROGENEITY IN VECTOR AUTOREGRESSIVE MODEL BY MEANS OF STATISTICAL CLASSIFICATION METHODS

12.30–13.00	**W. Charemza, C. Díaz, S. Makarova**	*Closing Lecture:* TOO MANY SKEW NORMAL DISTRIBUTIONS? THE PRACTITIONEER'S PERSPECTIVE

14.15–17.40 Section presentations

Section 6 Econometric and Financial Analysis and Modeling

Time	Chair: Prof. W. Charemza	
14.15–14.40	**R. Rudzkis, R. Uzdanavičiūtė**	ECONOMETRIC MODELS OF THE IMPACT OF MACROECONOMIC PROCESSES ON THE STOCK MARKET IN THE BALTIC COUNTRIES
14.40–15.00	**G. A. Medvedev**	MULTIFACTOR MODELS OF TERM STRUCTURE OF YIELD FOR ZERO COUPON BONDS
15.00–15.20	**S. P. Sidorov, P. Date, V. A. Balash, A. R. Faizliev, E. Korobov**	INDIVIDUAL STOCK VOLATILITY MODELLING WITH GARCH–JUMPS MODEL AUGMENTED WITH NEWS ANALYTICS DATA
15.20–15.40	**M.K. Kravtsov, N.M. Bareika, A.K. Nikitsina**	EXTENDED VERSION OF ECONOMETRIC MACROMODEL FOR FORECASTING OF THE MAIN PARAMETERS OF SOCIO-ECONOMIC DEVELOPMENT OF THE REPUBLIC OF BELARUS
16.00–16.20	**I. Belovas, V. Starikovičius**	MIXED-STABLE MODELLING OF HIGH-FREQUENCY FINANCIAL DATA: PARALLEL COMPUTING APPROACH
16.20–16.40	**N. Hryn, V. Malugin, A. Novopoltsev**	STATISTICAL COMPANY'S CREDIT RATINGS AND THEIRECONOMETRIC ANALYSIS
16.40–17.00	**A. Miksjuk**	WHAT DRIVES BELARUSIAN EXPORT? AN ECONOMETRIC EXERCISE
17.00–17.15	**N.M. Zuev**	CALCULATION OF EUROPEAN TYPE OPTIONS
17.15–17.30	**P.M. Lappo**	FINITE-TIME RUIN PROBABILITIES IN THE DISCRETE RISK MODEL
17.30–17.45	**A.A. Egorov**	A CONDITIONAL CONVERGENCE ANALYSIS OF PER CAPITA INCOMES
17.45–18.00	**A.I. Zmitrovich, S.N. Zborovskiy, A.V. Krivko-Krasko**	EXPRESS ANALYSIS OF THE FINANCIAL CONDITION OF A COMPANY

Section 7 — Survey Analysis and Official Statistics

Time	Chairs: Prof. R. Rudzkis, Prof. N.C. Bokun	
14.15–14.35	**N.C. Bokun**	LABOUR FORCE SURVEY: METHODOLOGICAL PROBLEMS
14.35–14.50	**L.I. Karpenko, N.E. Pekarskaya**	POPULATION OF THE REPUBLIC OF BELARUS ON AGE AND MARITAL STATUS
14.55–15.10	**M.M. Novikov**	. MODELLING OF EQUILIBRIUM ECONOMIC DYNAMICS IN GLOBAL SYSTEM OF EXPORT-IMPORT COOPERATION
15.10–15.25	**L.A. Soshnikova**	METHODS OF INDIRECT ESTIMATION OF THE INNOVATIVE DEVELOPMENT INTENSITY
15.25–15.40	**V.I. Lialikova, G.A. Khatskevich**	MODELING THE RELATIONSHIP OF THE QUALITY OF LIFE AND THE INVESTMENT ATTRACTIVENESS IN GRODNO REGION
16.00–16.15	**A. Kovalev**	STOCHASTIC SIMULATION MODEL OF EMPLOYMENT AND MIGRATION
16.15–16.30	**A.G. Kulak**	STATISTICAL ASSESSMENT OF THE LIFE POTENTIAL IN THE REGIONS OF THE REPUBLIC OF BELARUS
16.30–16.45	**A.V. Larchenko**	REPRODUCTIVE HEALTH SURVEY IN BELARUS
16.45–17.00	**O.G. Matkovskaya**	APPLICATION OF MODELS WITH THE DISTRIBUTED LAG IN THE ANALYSIS OF EKOLOGO-DEMOGRAPHIC INTERRELATIONS
17.00–17.10	**E.V.Yermalitskaya**	INTRODUCTION OF MODERN METHODS OF DISSEMINATION OF STATISTICAL INFORMATION
17.10–17.20	**S.U. Visockij**	MULTIDIMENTIONAL COMPARATIVE ANALYSIS OF INNOVATIVE ACTIVITY OF TERRITORIAL UNITS
17.20–17.30	**L.E. Soshnikov**	NEURAL NETWORK SIMULATION OF THE INDUSTRIAL PRODUCER PRICE INDEX DYNAMICAL SERIES
17.30-17.40	**Y. Y. Sharilova**	AN APPLICATION OF METHODS OF FACTOR ANALYSIS IN THE ASSESSMENT OF STATUS AND DYNAMICS OF THE AGE STRUCTURE OF THE POPULATION OF THE REPUBLIC OF BELARUS

17.40–18.00	Closing session

Chair: Prof. Yu. Kharin

Organizing Committee

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