

Contents

E. Adámek: The Role of Productivity in the Czech Republic: Does Balassa-Samuelson Effect Still Exist?.....	1
S. Alfiero, F. Elba, A. Esposito, G. Resce: Italian Saving Banks Efficiency, Is Unity Strength? Bank Groups versus Stand-Alone	2
O. Badura, J. Závacká: Are Remittances Important for the Aggregate Consumption Growth?	3
J. Bartoška: Semantic Model of Organizational Project Structure.....	4
J. Bartoška, P. Kučera, T. Šubrt: Modification of the EVM by Work Effort and Student Syndrome phenomenon.....	5
J. Bartošová, V. Bína: Equivalent Scale and Its Influence on the Evaluation of Relative Welfare of the Household.....	6
O. Beneš, D. Hampel: Evaluation of the Destructive Test in Medical Devices Manufacturing	7
L. Beranek: Sentiment Prediction on E-Commerce Sites Based on Dempster-Shafer Theory.....	8
V. Beránková: OCA Index: Results for the EU's Member States.....	9
D. Bílková: Trimmed L-Moments in Modeling Income Distribution	10
A. Borovička: Selection of the Bank and Investment Products via Stochastic Multi-Criteria Evaluation Method	11
M. Branda: A Chance Constrained Investment Problem with Portfolio Variance and Skewness Criteria - Solution Technique Based on the Successive Iterative Regularization.....	12
H. Brožová, I. Boháčková: Post-Crisis Development in the Agricultural Sector in the CR - Evidence by Malmquist Index and Its Decomposition	13
J. Brůha, J. Tonner, O. Vašíček: Modelling Effects of Oil Price Fluctuations in a Monetary DSGE Model.....	14
R. Bucki, P. Suchánek: Information Support for Solving the Order Priority Problem in Business Logistic Systems.....	15
A. Buczek: Modelling Legal Merger Time to Completion with Burr Regression.....	16
J. Buček: Fiscal Policy for the 21st Century: Does Barack Obama Effect the Real Economic Policy?	17

P. Budaj, M. Hrnčiar: Specifying the Use of Taguchi's Loss Function in Manufacturing and Service Sectors.....	18
P. Čekmeová: Labor Market Institutions and Total Factor Productivity An Evidence in the European Union	19
A. Černá, V. Příbyl, J. Černý: A Note on Optimal Network of Tourist Paths Reflecting Customer Preferences	20
D. Černá, V. Finěk: Adaptive Wavelet Method for the Black-Scholes Equation of European Options	21
L. Černá, V. Zitrický, J. Ponický: Income and Price Elasticity of Demand for Transport Services in Rail Passenger Transport in the Slovak Republic.....	22
M. Černý: Finite-Sample Behavior of GLFP-Based Estimators for EIV Regression Models: A Case with Restricted Parameter Space	23
Z. Čičková, I. Brezina, J. Pekár: Capacited Vehicle Routing Problem with Time Restriction Using Minimal Number of Vehicles.....	24
O. Čížek: Long-Run Growth in the Czech Republic	25
M. Dlask: Fractional Brownian Bridge as a Tool for Short Time Series Analysis.....	26
Z. Dlouhá: Earnings Effects of Job and Educational Mismatch in the Czech Graduate Labour Market.....	27
M. Dlouhý, M. Tichá: Multicriteria Voting Game and Its Application.....	28
M. Dorda, D. Teichmann, V. Graf: On Queueing Model of Freight Train Classification Process.....	29
M. Dvořák, J. Kukal, P. Fiala: Data Extension for Stock Market Analysis.....	30
S. Dvořáková, P. Jiříček: Multi-Parametric Simulation of a Model of Nonconventional Public Projects Evaluated by Cost-Benefit Analysis.....	31
K. Echaust: On the Extremal Dependence between Stock and Commodity Markets.....	32
M. Fałdziński, A. P. Balcerzak, T. Meluzin, M. B. Pietrzak, M. Zinecker: Cointegration of Interdependencies Among Capital Markets of Chosen Visegrád Countries and Germany	33
M. Fendek, E. Fendeková: Microeconomic Optimization Equilibrium Models of Demand and Supply for Network Industries Markets.....	34
E. Fendeková, M. Fendek: Models of Quantitative Analysis of the Competitive Environment in the Slovak Banking Sector	35

P. Fiala, R. Majovska: Efficient Project Portfolio Designing	36
T. Formánek, R. Hušek: On the Stability of Spatial Econometric Models: Application to the Czech Republic and Its Neighbors	37
J. Franek: Application of Selecting Measures in Data Envelopment Analysis for Company Performance Rating.....	38
L. Frýd: Granger Causality in Macroeconomics Panel Data.....	39
M. Gad, J. Jablonský, K. Zimmermann: Incorrectly Posed Optimization Problems under Extremally Linear Equation Constraints	40
M. Gavalec, K. Zimmermann: One Type of Activity Synchronization Problems.....	41
B. Gavurova, S. Korony: Slovak Day Surgery Beds Reduction on the Basis of Cost Frontier Function	42
T. Haloun, J. Marek, R. Rajmon, M. Kršíková: Analysis in a Time Series of Milk-Yield Production.....	43
J. Hanclova: A Two-Stage Data Envelopment Analysis Model with Application to Banking Industry in the Visegrad Group.....	44
S. Hašková: Evaluation of Project Investments Based on Comprehensive Risk.....	45
R. Hendrych, T. Cipra: On Comparing Various EWMA Model Estimators: Value at Risk Perspective.....	46
J. Hofman, L. Lukáš: Detection of Feasible Domains of Interpolation Parameters within Generalized EOQ Type Inventory Models	47
M. Holčapek, T. Tichý: Nonparametric Regression Via Higher Degree F-Transform for Implied Volatility Surface Estimation.....	48
P. Holeček, J. Talašová: A Free Software Tool Implementing the Fuzzy AHP Method.....	49
V. Holý: Impact of Microstructure Noise on Integrated Variance Estimators: A Simulation Study	50
M. Horniaček, L. Šimková: Recursive Core of an OLG Economy with Production and Comprehensive Agreements.....	51
R. Horský: The Invertibility of the General Linear Process and the Structures in its Background.....	52
J. Hozman, T. Tichý: DG Approach to Numerical Pricing of Local Volatility Basket Options.....	53

B. Chramcov, R. Bucki, M. Trzopek: Model Based Control of Production Flows in the Serial Logistic Process.....	54
L. Chytilová, F. Zapletal: The Comparison of DEA and PROMETHEE Method to Evaluate the Environmental Efficiency of National Steel Sectors in Europe	55
L. Chytilová: Banking Efficiency in the Visegrád Group According to Data Envelopment Analysis	56
J. Jablonský, V. Sklenák: Multi-Period Analysis and Resource Allocation among Czech Economic Faculties.....	57
H. Jähn: Selected Problems of a Performance Analysis Approach for Networked Production Structures and Their Quantitative Solutions.....	58
O. Jajkowicz: Determinants of the Shadow Economy in the Selected European Union Member Countries	59
J. Janáček, M. Kvet: Designing a Robust Emergency Service System by Lagrangean Relaxation.....	60
M. Janáčková, A. Szendreyová: An Importance of the Population Density for The Location of the Emergency Medical Service Stations.....	61
J. Janák: Fractional Brownian Motion and Parameter Estimation.....	62
J. Kalina, B. Peštová: Some Robust Distances for Multivariate Data	63
V. Kaňková: A Note on Optimal Value of Loans	64
S. Kapounek, Z. Kučerová: Google Trends and Exchange Rate Movements: Evidence from Wavelet Analysis	65
N. Kaspříková: Economic Efficiency of AOQL Variables Sampling Plans.....	66
E. Kassem, O. Trenz, J. Hřebíček, O. Faldik: Mathematical Model for Sustainable Value Added Calculation.....	67
E. Keshavarz, M. Toloo: A Single-Stage Approach for Selecting Inputs/Outputs in DEA.....	68
Z. Kiszová: Employee Selection - Case Study Applying Analytic Hierarchy Process.....	69
F. Koblasa, M. Vavroušek, F. Manlig: Three Dimensional Bin Packing Problem in Batch Scheduling.	70
A. Kocourek, J. Šímanová, J. Šmída: Modelling of Regional Price Levels in the Districts of the Czech Republic.....	71
J. Kodera, Q. V. Tran, M. Vošvrda: Discrete Dynamic Endogenous Growth Model:Derivation, Calibration and Simulation	72

M. Koháni: Robust Design of Tariff Zones in Integrated Transport Systems	73
V. Končíková, J. Buček, R. Barca: China and EU as Trade Competitors: Different Methodological Approaches.....	74
M. Kopa: Portfolio Selection Problem with the Third-Order Stochastic Dominance Constraints	75
E. Kotlánová, K. Turečková: Income Inequality in V4+ Countries at NUTS 2 Level	76
N. Kouaissah: Optimal Portfolio Selection with Different Approximated Returns.....	77
I. Krejčí, G. Koláčková, I. Tichá: Simulation Model of Czech Small Farming Business	78
A. Kresta, T. Tichý, M. Toloo: Evaluation of Market Risk Models: Changing the Weights in the DEA Approach.....	79
L. Křišťoufek, M. Vošvrda: Capital Market Efficiency in the Ising Model Environment: Local and Global Effects	80
Z. Kučerová, J. Poměnková: The Role of Banking and Shadow Banking Sector in the Euro Area: Relationship Assessment via Dynamic Correlation.....	81
J. Kukal, Q. V. Tran: Estimation of Alpha Stable Distribution without Numerical Difficulties	82
M. Kuncová: Cost Minimization and Electricity Consumption Growth in the Czech Households in Case of the New Conditions	83
M. Kvasnička: Simulation Framework for Testing Piketty's Predictions	84
M. Kvet, J. Janáček: Lexicographic Fair Design of Robust Emergency Service System.....	85
P. Lachout: Discussion on Implicit Econometric Models.....	86
E. Litavcová, S. Jenčová, P. Vašaničová: On Modelling of Macroeconomic Context of Current Economic Development	87
L. Lukáš: American Option Pricing Problem Formulated as Variational Inequality Problem.....	88
T. Majer, S. Palúch: Rescue System Resistance to Failures in a Transport Network.....	89
M. Małecka: Evaluation of Parametric ES Tests	90
J. Málek, Q. V. Tran: Evaluating the Ability to Model the Heavy Tails of Asset Returns of Two Alternative Distributions.....	91
L. Marek: Comparison of Wages in the Czech Regions	92
P. Marek, T. ěoupal, F. Vávra: Efficient Distribution of Investment Capital	93

A. Mastalerz-Kodzis, E. Pośpiech: Dynamic and Spatial Analysis of Economic and Labour Market Characteristics in European Countries	94
M. Matějka, T. Karel, J. Fojtík, P. Zimmermann: Mixing Mortality Data Approach Using Czech Cohort Data.....	95
K. Mičudová, L. Lukáš: Various Interest Rates Models Used within Real Options Valuation Tools	96
E. Mielcová: Application of Coalitional Values on Real Voting Data	97
M. Miśkiewicz-Nawrocka, K. Zeug-Żebro: The Application of Chosen Measures of Deterministic Chaos to Building Optimal Portfolios	98
M. Mojzes, J. Kukal, J. Bostik, M. Klimt: Annealing Based Integer Optimization Heuristic with Lévy Flights	99
M. Molnárová: Possible and Universal Robustness of Monge Fuzzy Matrices	100
H. Myšková: Interval Fuzzy Matrix Equations	101
M. Navrátil, P. Kořítková Stránská, J. Heckenbergerová: Sensitivity Analysis of MACD Indicator on Selection of Input Periods Combination	102
T. L. Nawrocki: Comparison of an Enterprise's Financial Situation Assessment Methods. Fuzzy Approach versus Discriminatory Models	103
D. Nejedlová: Prediction of Daily Traffic Accident Counts and Related Economic Damage in the Czech Republic	104
D. Němec, M. Macíček: Wage Rigidities and Labour Market Performance in the Czech Republic.....	105
S. Ortobelli, T. Lando, C. Nardelli: Parametric Rules for Stochastic Comparisons	106
S. Palúch, T. Majer: Vehicle Scheduling with Roundabout Routes to Depot.....	107
A. Pápai: Monetary Policy in an Economy with Frictional Labor Market - Case of Poland. 108	
J. Pavelec, B. Šedivá: Adaptive Parameter Estimations of Markowitz Model for Portfolio Optimization	109
O. Pavlačka, P. Rotterová: Fuzzy Decision Matrices Viewed as Fuzzy Rule-Based Systems	110
M. Pechrová, V. Lohr: Valuation of the Externalities from Biogas Stations.....	111
J. Pekár, L. Mieresová, R. Marian: Multiple Criteria Travelling Salesman Problem.....	112
J. Pelikan: Heuristics for VRP with Private and Common Carriers.....	113

R. Perzina, J. Ramík: Fuzzy Decision Analysis Module for Excel.....	114
Š. Peško, R. Hajtmanek: The Treatment of Uncertainty in Uniform Workload Distribution Problems.....	115
B. Petrová: Multidimensional Stochastic Dominance for Discreteuniform Distribution	116
K. Piasecki: The Intuitionistic Fuzzy Investment Recommendations.....	117
R. Pietrzyk, P. Rokita: A Decent Measure of Risk for a Household Life-Long Financial Plan - Postulates and Properties.....	118
A. Podaras: Optimum Classification Method of Critical IT Business Functions for Efficient Business Impact Analysis.....	119
A. Pozdílková, P. Kořátková Stránská, M. Navrátil: Regression Analysis of Social Networks and Platforms for Tablets in European Union	120
P. Pražák: Dynamics Model of Firms' Income Tax	121
V. Příbyl, A. Černá, J. Černý: A Note on Economy of Scale Problem in Transport with Non-linear Cost Function of Transported Quantity.....	122
M. Rada, M. Tichá: Finite Game with Vector Payoffs: How to Determine Weights and Payoff Bounds under Linear Scalarization.....	123
J. Ramík: Strong Consistent Pairwise Comparisons Matrixwith Fuzzy Elements and Its Usein Multi-Criteria Decision Making.....	124
V. Reichel, M. Hloušek: The Housing Market and Credit Channel of Monetary Policy	125
P. Rotterová, O. Pavlačka: Computing Fuzzy Variances of Evaluations of Alternatives in Fuzzy Decision Matrices	126
L. Roubalová, D. Hampel: The Main Inflationary Factors in the Visegrád Four	127
J. Rozkovec, J. Öhm, K. Gurinová: Posteriori Setting of the Weights in Multi-Criteria Decision Making in Educational Practice	128
L. Schaynová: A Client's Health from the Point of View of the Nutrition Adviser Using Operational Research.....	129
J. Schürer: Wavelets Comparison at Hurst Exponent Estimation.....	130
J. Sixta, J. Fischer: Possibilities of Regional Input-Output Analysis of Czech Economy	131
V. Skocdopolova: A Comparison of Integer Goal Programming Models for Timetabling...	132
K. Sladký: Transient and Average Markov RewardChains with Applications to Finance....	133

O. Sokol, M. Rada: Interval Data and Sample Variance: How to Prove Polynomiality of Computation of Upper Bound Considering Random Intervals?	134
J. Stoklasa, T. Talášek: On the Use of Linguistic Labels in AHP: Calibration, Consistency and Related Issues	135
V. Sukač, J. Talašová, J. Stoklasa: 'Soft' Consensus in Decision-Making Model Using partial Goals Method.....	136
K. Súpová, O. Vašíček: Modelling of an Asymmetric Foreign Exchange Rate Commitment in the Czech Economy. DSGE Model with Constraints.....	137
K. Surmanová, M. Reiff: Long-Term Unemployment in Terms of Regions of Slovakia	138
K. Szomolányi, M. Lukáčik, A. Lukáčiková: The Effect of Terms-of-Trade on Czech Business Cycles: A Theoretical and SVAR Approach.....	139
B. Šedivá: The Dynamic Behaviour of Wonderland Population-Development-Environment Model.....	140
O. Šimpach, M. Pechrová: Searching for Suitable Method for Clustering the EU Regions according to Their Agricultural Characteristics	141
E. Šlaichová, M. Rodrigues: A Computer-Based VBA Model for Optimal Spareparts Logistics Management in a Manufacturing Maintenance System.....	142
E. Šlaichová, E. Štichhauerová, M. Zbránková: Optimization of the Transportation Plan with a Multicriterial Programming Method.....	143
J. Šnor: Similarity of Stock Market Series Analyzed in Hilbert Space.....	144
T. Talášek, J. Stoklasa, J. Talašová: The Role of Distance and Similarity in Bonissone's Linguistic Approximation Method - a Numerical Study.....	145
J. Talašová, J. Stoklasa, P. Holeček, T. Talášek: Registry of Artistic Performance - The Final State of the Evaluation Model.....	146
M. Tichá: Multi-Criteria Coalitional Game with Choice from Payoffs.....	147
P. Tomanová: Measuring Comovements by Univariate and Multivariate Regression Quantiles: Evidence from Europe.....	148
S. Vaitkevicius, V. Hovorková Valentová, E. Zakareviciute: The Use of Cluster Analysis for Development of Categorical Factors in Exploratory Study: Facts and Findings from the Field Research.....	149
K. Vaňkátová, E. Fišerová: Analysis of Income of EU Residents Using Finite Mixtures of Regression Models	150

P. Vašaničová, E. Litavcová, Š. Lyócsa: Co-Movement of Tourism Activity of V4 countries.....	151
P. Volf: On Newsvendor Model with Optimal Selling Price.....	152
J. Voříšek: Approximate Transition Density Estimation of the Stochastic Cusp Model.....	153
I. Vybíralová: The Impact of Labor Taxation on the Economic Growth.....	154
K. Warzecha: The Similarity of the European Union Countries as Regards the Production of Energy from Renewable Sources	155
M. Zámková, M. Prokop: The Evaluation of Factors Influencing Flight Delay at Popular Destinations of Czech Tourists.....	156
F. Zapletal, M. Šmíd: Decision of a Steel Company Trading with Emissions	157
J. Zbránek, J. Fischer, J. Sixta: Using Semi-Dynamic Input-Output Model for the Analysis of Large Investment Projects.....	158
P. Zimčík: Tax Burden and Economic Growth in OECD Countries: Two Indicators Comparison.....	159
M. Žižka: Effectiveness and Efficiency of Fast Train Lines in the Czech Republic	160