



The 10th International Conference on Optimization: Techniques and Applications (ICOTA 10)



PROGRAM



July 23-26, 2016

Ulaanbaatar, Mongolia

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Institute of Mathematics, NUM

Co-Organizing Institutes

National University of Mongolia

University of the Humanities

German-Mongolian Institute for Resources and Technology

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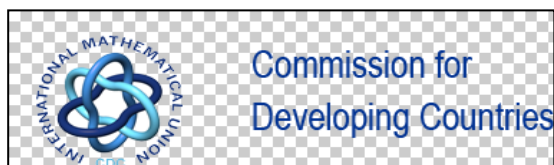
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July 23, 2016 Saturday			
08.40-9.40	Best Western Premier Tuushin hotel	Registration	
Plenary Session	Soyombo Hall		
09:40-10:20	Opening Ceremony		
10:20-10:40	Coffee Break		
Time	Speaker and title	Chair	
10:40-11:25	Shu-Cherng Fang.(North Carolina State University, United States) <i>Linear Reformulation of Polynomial Discrete Programming for Fast Computation</i>	A. Chinchuluun	
11:30-12:15	Akiko Yoshise (University of Tsukuba, Japan) <i>Some Tractable Subcones for Testing Copositivity</i>		
12:30-14:00	Lunch	Tuushin Hotel	
Session M1	Global Optimization and Optimal Control		
3th Bld. of University of the Humanities			
Room 401, Floor-4			
Time	Speaker and title	Chair	
14:00-14:15	Zhibin Deng, Shu-Cherng Fang, Wenxun Xing, Ye Tian and Cheng Lu. <i>Globally Solving Quadratic Programs with Complementarity Constraints via Completely Positive Programming</i>	Olga Vasilieva	
14:15-14:30	Daiver Cardona-Salgado, Doris E. Campo-Duarte and Olga Vasilieva. <i>Optimal control approach for dengue prevention using Wolbachia-based biocontrol</i>		
14:30-14:45	Sona Taheri and Adil Bagirov. <i>DC programming approach to clusterwise linear L₁ regression</i>		
14:45-15:00	Sie Long Kek, Wah June Leong and Kok Lay Teo. <i>Conjugate Gradient Approach for Nonlinear Optimal Control Problem with Model-Reality Differences</i>		
15:00-15:15	Enkhbat Rentsen. <i>Global Optimization Approach to Malfatti's generalized Problem.</i>		
15:15-15:30	Coffee Break		
15:30-15:45	Akylbek Kerimbekov and Elmira Abdylbaeva. <i>The optimal vector control for the elastic oscillations described by Fredholm integral-differential equations</i>		
15:45-16:00	Evgeniya Finkelstein and Alexander Gornov. <i>Technology of time-optimal control problem solution based on the reachable set approximation</i>		
16:00-16:15	Lkhamsuren Altangerel. <i>Gap function approach to the generalized Nash equilibrium problems via duality</i>		
16:15-16:30	Andrei Orlov and Alexander Strekalovsky. <i>Optimization software for solving hexamatrix games</i>		Honglei Hu
16:30-16:45	Vladimir Andreevich Srochko and Vladimir Georgievich Antonik. <i>Sufficient Optimality Conditions for Some Control Problems</i>		
16.45-17.00	Battur Gompil and Purev-Ochir Lkhamsuren. <i>An application of Barzilai-Borwein method to</i>		

	<i>generalized Nash equilibrium problems</i>	
17.00-17.15	Changjun Yu. <i>Smoothing Spline Via Optimal Control Under Uncertainty</i>	
17.15-17.30	Klara Mizhidon. <i>The problem of tracking a standard trajectory</i>	
18:00	Welcome reception	Ulaanbaatar Hotel

Session M2	Application of Mathematical Modeling and Optimization Theory and Methods in Various Areas
	3th Bld. of University of the Humanities

Room 501, Floor-5		
Time	Speaker and title	Chair
14:00-14:15	Hsiao-Fan Wang and Ching-Yi Kuo. <i>Pattern Recovery from Small Data Set with Back-propagation Neural Networks</i>	
14:15-14:30	Takamasa Akiyama and Hiroaki Inokuchi. <i>The combinatorial optimization of distance based toll for urban expressway</i>	
14:30-14:45	Xu Honglei. <i>Stability Analysis of Delayed Neural Networks with Slope-bounded Activation Functions</i>	Barsbold.B
14:45-15:00	Yuan Zhao and Wuyi Yue. <i>Spectrum Allocation Strategy with a Probabilistic Preemption Scheme in Cognitive Radio Networks</i>	
15:00-15:15	Jian Luo and Ye Tian. <i>Clustering via Fuzzy One-Class Quadratic Surface Support Vector Machine</i>	
15:15-15:30	Coffee Break	
15:30-15:45	Napsu Karmitsa, Adil Bagirov and Sona Taheri. <i>New DC diagonal bundle method for clustering in very large data sets</i>	
15:45-16:00	Belarmino Adenso-Diaz, Julio Mar-Ortiz and Sebastián Lozano. <i>Analysing the robustness of a supply network under links shutdown</i>	
16:00-16:15	Jen-Yen Lin and Ming-Jong Yao. <i>The joint replenishment problem with quantity discounts under power-of-two policies</i>	
16:15-16:30	Keiji Tatsumi, Toshimasa Matsuoka and Sadahiro Tani. <i>A software level calibration for a successive stochastic approximation analog-to-digital conversion system</i>	Aleksander Gornov
16:30-16:45	Ming-Jong Yao and Tien-Cheng Hsu. <i>An Efficient Search Algorithm for Obtaining the Optimal Replenishment Strategies in Assembly-type Just-in-time Supply Chain Systems</i>	
16.45-17.00	Alexander Strekalovskiy, Maxim Yanulevich and Mariia Barkova. <i>Optimization approach for solving nonlinear equation systems: numerical method</i>	
17.00-17.15	Sai Ji, Dachuan Xu, Donglei Du and Yijing Wang. <i>Approximation algorithms for two-stage stochastic fault-tolerant facility location problem</i>	
17.15-17.30	Bayarbaatar Amgalan. <i>Identification of key players on cancer-activated multi-dimensional network</i>	
18:00	Welcome reception	Ulaanbaatar Hotel

Session M3	Optimization and its Application	
	3th Bld. of University of the Humanities	
	Room 502, Floor-5	
Time	Speaker and title	Chair
14:00-14:15	Gerhard-Wilhelm Weber, Emel Savku, Yeliz Yolcu Okur, Azar Karimov and Erdem Kilic. <i>Recent Advances of Optimization and Optimal Control to Economics and Finance</i>	
14:15-14:30	Xiaoqi Yang. <i>Subgradient methods for quasi-convex optimization problems</i>	
14:30-14:45	Ser-Od Bayaraa and Delgersaikhan Urtnasan. <i>Optimal decision making problem with fuzzy constraints</i>	Hexi Baoyin
14:45-15:00	Adil Bagirov and Julien Ugon. <i>Unconstrained piecewise linear optimization: optimality conditions and numerical methods</i>	
15:00-15:15	Batzul Tumur and Barsbold Bazarragchaa. <i>Reducibility of linear homogeneous system differential equations with semiperiodic coefficients</i>	
15:15-15:30	Coffee Break	
15:30-15:45		
15:45-16:00	Masakazu Muramatsu, Bruno Lourenco and Takashi Tsuchiya. <i>Weak infeasibility, facial reduction, and duality in conic programming</i>	
16:00-16:15	Bastian Harrach and Mach Nguyet Minh. <i>Regularizing the optimization-based solution of inverse coefficient problems with monotonicity constraints</i>	
16:15-16:30	Jen-Yen Lin, Ming-Jong Yao and Yi-Hua Chu. <i>Solving the Optimal Resource Allocation in Multimodal Stochastic Activity Networks Using an Optimal Computing Budget Allocation Technique</i>	Bayarbaatar.A
16:30-16:45	Barsbold Bazarragchaa, Ariungerel Jargal and Yeruult Sandagsuren. <i>A Numerical Method for Solving Optimal Investment Problem in Non-life Insurance</i>	
16:45-17:00	Van Bong Nguyen and Ruey-Lin Sheu. <i>On Unboundedness of Quadratic Problems with Convex Quadratic Constraints</i>	
17:00-17:15	Yoshifumi Kusunoki. <i>Approximate solution for support vector machines maximizing the sum of geometric margins</i>	
17:15-17:30	Mingjie Gao and Cedric Yiu. <i>Optimization of sparse beamforming systems</i>	
18:00	Welcome reception	Ulaanbaatar Hotel
Session M4	Stochastic and Dynamic Programming, Optimization	
	3th Bld. of University of the Humanities	
	Room 503, Floor-5	
Time	Speaker and title	Chair
14:00-14:15	Wonny Choi, Jaechan Shim, Hoyong Ryu and Yutae Lee. <i>Queueing system with breakdowns and interrupted repairs</i>	

14:15-14:30	Raúl Rodríguez-Alarcón and Sebastián Lozano. <i>Self-Organizing Map of Reservoir Operations</i>	Nezam Mahdavi-Amiri
14:30-14:45	Richard Vogel. <i>Mathematics, Optimization, and the Skills necessary for Management Education</i>	
14:45-15:00	Zhanyou Ma, Xiaoming Zheng and Wuyi Yue. <i>Performance Analysis of Geo/Geo/c Queue with Priority Discipline and Multiple Vacations</i>	
15:00-15:15	Jiyuan Tao. <i>Some trace inequalities in Euclidean Jordan algebras</i>	
15:15-15:30	Coffee Break	
15:30-15:45	Huan Zhang and Lingchen Kong. <i>Fused-LASSO Penalized Least Absolute Deviation Estimator for High Dimensional Linear Regression</i>	
15:45-16:00	Yu-Ching Lee, Yi-Hao Huang and Si-Jheng Ciou. <i>Data analytics with optimal parameter estimation on Hadoop</i>	
16:00-16:15	Lichun Wang. <i>On Estimating Uniform Distribution via Linear Bayes Method</i>	
16:15-16:30	Yanyan Yin, Yanqing Liu, Kok Lay Teo and Fei Liu. <i>Probabilistic Robust Control of Linear Systems with Input Constrains</i>	
16:30-16:45	Lili Pan, Naihua Xiu and Jun Fan. <i>Optimality Conditions for Sparsity Nonlinear Programming</i>	Bayanjargal.D
16:45-17:00	Nezam Mahdavi-Amiri and Effat Golpar-Raboky. <i>The Smith Normal Form Using General Biconjugation Processes</i>	
17:00-17:15	Tumen Darmaev <i>A numerical analysis of the spectrum of plane-parallel flows</i>	
17:15-17:30	Mohamed Tawhid and Vimal Savsani. <i>Multi-objective water wave optimization (MO-WWO) algorithm for multi-objective engineering design problems</i>	
18:00	Welcome reception	Ulaanbaatar Hotel

July 24, 2016 Sunday

Plenary Session			
Best Western Premier Tuushin hotel, Soyombo Hall			
Time	Speaker and title	Chair	
09:00-09:45	Alexander Strelakovski.(Matrosov Institute for System Dynamics and Control Theory of Siberian Branch of RAS, Russian Federation) <i>Global Search Theory for Nonconvex Optimization</i>		
09:45-10:25	Coffee Break		
10:25-11:10	Frank Lewis. (University of Texas at Arlington, United States) <i>Reinforcement Learning Structures for Real-Time Optimal Control and Differential Games</i>	Tseveendorj. I	
11:10-11:55	Joydeep Dutta.(Indian Institute of Technology Kanpur, India) <i>Are equilibrium problems more general than variational inequalities?</i>		
12:30-14:00	Lunch	Tuushin Hotel	
Session	Global Optimization and Optimal Control		

3th Bld. of University of the Humanities

Room 401, Floor-4

Time	Speaker and title	Chair
14:00-14:15	Alexander Arguchintsev and Vasilisa Poplevko. <i>Optimal control problem by parabolic equation with boundary smooth control function</i>	
14:15-14:30	Olga Samsonyuk. <i>Hamilton-Jacobi inequalities for impulsive control systems with trajectories of bounded variation and their applications to control problems</i>	
14:30-14:45	Yumei Liao, Wei Wei and Dongsheng Luo. <i>Optimal control problem on microwave heating packaged foods</i>	Andrei Orlov
14:45-15:00	Elena Khoroshilova. <i>Saddle-point approach and extragradient method to solve dynamical terminal control problem</i>	
15:00-15:15	Anatoly Antipin. <i>Saddle-Point Methods with Phase Constraints and Boundary Value Problems in Terminal Controls</i>	
15:15-15:30	Coffee Break	
15:30-15:45	Ider Tseveendorj and Dominique Fortin. <i>Interior Ball Method for Piecewise Convex Maximization Problems</i>	
15:45-16:00	Ishin-Khorlo Khishektueva and Alexander Buldaev. <i>On one approach to modeling and optimization of the dynamics of the nuclear reactor.</i>	Tatiana Gruzdeva
16:00-16:15	Gaoxi Li, Zhongping Wan, Jia-Wei Chen and Xiaoke Zhao. <i>Optimality conditions for trilevel optimization problem</i>	
16:15-16:30	Maxim Staritsyn and Stepan Sorokin. <i>Synthesis of impulsive control and impulsive feedback maximum principle</i>	
16:30-16:45	Diego Ruiz-Hernandez, Mozart B.C. Menezes, Kai Luo and Oihab Allal-Cherif. <i>Entering a new market: the effect of short lifecycles on supply chain design</i>	
16:45-17:00	Ekaterina Dryganova. <i>The projective method of nonlocal improvement in the discrete control systems</i>	
17:00-17:15	Bayartugs Tamjav and Munkhdalai Dorj. <i>A Numerical Method for Quasiconvex Maximization</i>	

Session
M2Application of Mathematical Modeling and Optimization Theory
and Methods in Various Areas

3th Bld. of University of the Humanities

Room 501, Floor-5

Time	Speaker and title	Chair
14:00-14:15	Zhining Lim, Jinho Choi and Cheng-Chew Lim. <i>Modelling Network Layer Malicious Activity in Wireless Sensor Networks</i>	
14:15-14:30	Yanjun Jiang and Dachuan Xu. <i>An approximation algorithm for the dynamic facility location problem with outliers</i>	
14:30-14:45	Igor Vasilyev, Xenia Klimentova and Anton Ushakov. <i>Competitive facility location model with attractiveness variables</i>	Richard Vogel
14:45-15:00	Aleksander Gornov, Anton Anikin, Evgeniya Finkelstein and Tatiana Zarodnyuk. <i>Computational technologies for solving huge optimization problems</i>	

15:00-15:15	Hiroaki Inokuchi and Takamasa Akiyama. <i>The disaster debris transport problem with network equilibrium constraints</i>	
15:15-15:30	Coffee Break	
15:30-15:45	Lu Han, Dachuan Xu, Donglei Du and Chenchen Wu. <i>An approximation algorithm for the k-MST problem with linear penalties</i>	
15:45-16:00	Munkherdene Tsagaan <i>Electrical Impedance Imaging and its application in Mongolia</i>	
16:00-16:15	Chenchen Wu and Dachuan Xu. <i>Approximation algorithm for the priority multi-level facility location problem</i>	
16:15-16:30	Mingwei Yin, Jingyang Li and Hexi Baoyin. <i>Rapid Algorithm for Time-Optimal Reorientation of Agile Satellite</i>	Napsu Karmita
16:30-16:45	Shunfu Jin and Wuyi Yue. <i>Performance Estimation and System Optimization of a Hybrid Energy Saving Control Method in the Energy-Efficient Ethernet</i>	
16:45-17:00	Shengze Cai, Yongbin Huang, Bo Ye and Chao Xu. <i>Dynamic Illumination Optical Flow Computing for Sensing Multiple Mobile Robots from a Drone</i>	
17:00-17:15	Zhilin Kang and Zhongfei Li. <i>Data-driven robust mean-CVaR portfolio selection under distribution ambiguity</i>	
17:15-17:30	Gankhuu Battulga and Lkhamsuren Altangerel. <i>An extension of the one-period model in non-life insurance markets</i>	
17:30-17:45	Batbileg Sukhee, Anton Anikin and Evgeniya Finkelstein <i>Global Optimization Approach to Game Theory</i>	

**Session
M3**

Optimization and its Application

3th Bld. of University of the Humanities

Room 502, Floor-5

Time	Speaker and title	Chair
14:00-14:15		
14:15-14:30	Darkhijav Bayanjargal and Batsukh Davaasuren. <i>An Optimization Approach to Consumer Lifetime Valuation Model</i>	
14:30-14:45	Changchun Bao and Hexi Baoyin. <i>Near-Earth Asteroid Capturing Orbit Design with Low Thrust Optimization Method</i>	Ser-Od. B
14:45-15:00	Mariia Barkova, Rentsen Enkhbat and Tatiana Gruzdeva. <i>D.C. programming approach for solving an optimization problem at ore-dressing plant</i>	
15:00-15:15	Changzhi Wu. <i>Sparse optimal feedback gains via l_0 norm minimization with Moreau envelope approach</i>	
15:15-15:30	Coffee Break	
15:30-15:45	Tatiana Gruzdeva and Rentsen Enkhbat. <i>One approach to solving an applied ore-processing problem via d.c. optimization</i>	
15:45-16:00	Hong Seng Sim, Wah June Leong, Chuei Yee Chen and Siti Nur Iqmal Ibrahim. <i>Spectral Gradient Method via Variational Technique under Log-Determinant Norm</i>	Song Wang

16:00-16:15	Artem Baklanov, Pavel Chentsov, Alexandr Gornov and Tatiana Zarodnyuk. <i>A heuristic approach for the traveling salesman problem of special type</i>
16:15-16:30	Jianping Liu, Shunfu Jin and Wuyi Yue. <i>Performance Optimization for an Energy Conservation Strategy with Multi-Sleep Mode in Green Cognitive Radio Network</i>
16:30-16:45	Zagdkhorol Bayasgalan and Tsetsgee Bayasgalan <i>Optimal load distribution and frequency regulation in power system</i>
16.45-17.00	Song Wang. <i>An interior penalty method for a finite-dimensional nonlinear double obstacle problem in financial engineering</i>
17.00-17.15	Shenbao Yu, Bilian Chen and Jing Tang. <i>Dilemma of Personal POI Recommendation in Location-based Social Networks</i>
17.15-17.30	Ma Xinchun. <i>One recourse-based stochastic quadratic programming with linear partial information on probability distribution and its L-shaped algorithm</i>
17.30-17.45	Mohamed Tawhid and Vimal Savsani. <i>Multi-objective water wave optimization (MO-WWO) algorithm for multi-objective engineering design problems</i>
17.45-18.00	Xia Li and Peifeng Niu. <i>Self-study Teaching-Learning-Based Optimization Algorithm by Adaptive Mutation for Modeling NOX Emission of the Boiler</i>

Poster session

Time	Speaker and title
14:30-15:30	Enkhbat Rentsen, Mohammed Bellalij, Khalid Jbilou and Bayartugs Tamjav. <i>Semidefinite Quasiconvex Programming</i>
14:30-15:30	Davaadulam Jamsranjav and Budnyam Sanjaa. <i>Mathematical models of knowledge economy</i>
14:30-15:30	Ankhubayar Chuluunbaatar and Tungalag Natsagdorj. <i>Mathematical Model for Consumer Loan Risk</i>
14:30-15:30	Amarsanaa Luvsandagva and Otgonnaran Ochirbat. <i>Arranging a subject topics in correct order with network graph</i>
14:30-15:30	Erdenebat Munkhdalai and Tungalag Natsagdorj. <i>A Variational Calculus approach to Inventory Management in Business</i>
14:30-15:30	Tsolmon Sodnomdavaa and Molomjamts Dorjkhand. <i>Bankruptcy prediction models: artificial neural networks versus discriminant analysis and logit model</i>
14:30-15:30	Enkhbayar Jamsranjav and Enkhbat Rentsen. <i>A theory and method for solving maxmin problems in Microeconomics.</i>
15:30-16:30	Oyuntsetseg Luvsandash, Enkhbayar Jamsranjav and Tungalag Natsagdorj. <i>ExLog Weighted Sum Model for Long term Forecasting</i>
15:30-16:30	Naranchimeg Chimedravdan and Davaasuren Chuluunbaatar. <i>Some problems of optimal planning budget of Mongolia</i>
15:30-16:30	Battuvshin Chuluundorj and Binderiya Enkhbat. <i>A Diet Planning Optimization Model</i>
15:30-16:30	Makhgal Ganbold and Bayarbaatar Amgalan. <i>Partial Correlation Based Graph Estimation on Gene Expression Profile</i>
15:30-16:30	Altan-Ulzii Chuluun <i>Dynamic Stochastic General Equilibrium (DSGE) Model with Banking Sector and Housing Market</i>

15:30-16.30	Badam Ulemj and Ankhbayar Gelegbadam. <i>A Mathematical Modeling for Determining Normal Rate of Desertification.</i>
15:30-16.30	Bilguun Sukhbaatar, Batsukh Tserendorj and Oyu-Erdene Buyandelger. <i>Exchange rate pass-through effect analysis in case of Mongolia: Small open economy DSGE model</i>
15:30-16.30	Tugal Zhanlav, Renchin-Ochir Mijiddorj. <i>Numerical solution of reaction-diffusion system</i>

July 25, 2013 Monday

Session M1	Global Optimization and Optimal Control	
	3th Bld. of University of the Humanities	
	Room 401, Floor-4	
	Time	Speaker and title
		Chair
09:00-09:15	Nobusumi Sagara and Boris S. Mordukhovich. <i>Subdifferentials of nonconvex integral functionals in Banach spaces with applications to stochastic dynamic programming</i>	Enkhbat.R
09:15-09:30	Myeongmin Kang, Myungjoo Kang and Miyoung Jung. <i>Inexact and accelerated version of augmented Lagrangian method for L1-L2 minimization with linear constraints</i>	
09:30-09:50	Coffee Break	

Countryside trip to “XIII Century”

Departure time	Depart from
10:00	In front of the main building of National University of Mongolia