

International Symposium on Operations Research and Game Theory: Modeling and Computation

Program Overview

Inaugural Session Details

January 9, 2018 Time: 10:00 -10:30 Venue: Auditorium

Welcome address, Opening Remarks, About symposium, Vote of Thanks

Tea Break: 10:30 -10:45

Sessions Details

January 9, 2018 Time: 10:45 -13:00 Venue: Auditorium

Invited Session I

Chairman : S. K. Neogy, Indian Statistical Institute, Delhi Centre

1.	Katta G. Murty (University of Michigan, Ann Arbor, USA) (jointly with David L. Kaufman and Peter Benson) <i>Sphere Method 7-3 Using No Matrix Inversions for Linear Programs (LPs)</i>
2.	Zdenek Dostal (VSB-Technical University Ostrava, Czech Republic) <i>Fast algorithms for QP and QCQP problems with applications</i>
3.	Cidambi Srinivasan (jointly with Richard Charnigo) University of Kentucky, USA, <i>Inference for a Nonparametric Model without Nonparametric Estimation</i>

Lunch Break: 13:00 -14:00

January 9, 2018 Time: 14:00 -15:20 Venue: Auditorium

Invited Session II

Chairman: Bo Chen, University of Warwick, UK

1.	Pierre Flener (Uppsala University, Sweden) <i>Constraint Based Modelling and Solving of Combinatorial Problems</i>
2.	Sandeep Juneja (Tata Institute of Fundamental Research, Mumbai, India) <i>Perfect Sampling for Gibbs Processes with a focus on Hard-sphere Models</i>

Tea Break: 15:20 -15:45

January 9, 2018 Time: 15.45 -18:00 Venue: Auditorium
Technical Session-I A
Chairman : Juan Enrique Martínez-Legaz, Universitat Autònoma de Barcelona, Spain

1.	Monica Patriche (University of Bucharest) <i>Existence of the equilibrium in choice</i>
2.	Sujatha Babu (Indian Institute of Technology Madras), □ Usha Mohan, Tiru Arthanari, <i>Modeling cooperation as a Quantum game</i>
3.	Anjali Singh and Anjana Gupta (Delhi Technological University, India), <i>Optimization based consensus model to solve multi criteria large group decision making problems</i>
4.	Sagnik Sinha (Jadavpur University, Kolkata), Kushal Guha Neogy, Prasenjit Mondal, <i>On Zero-Sum Two-Person Perfect Information Semi-Markov Games</i>
5.	Prasenjit Mondal (Government General Degree College at Ranibandh, Bankura) <i>On Single Controller Semi-Markov Games Under Limiting Ratio Average Payoff</i>
6.	Akash Singh and Uttam Kumar Bera (National Institute of Technology Agartala) <i>A Mathematical Model for a Multi-Objective Solid Transportation Problem in Hilly Areas</i>
7.	Bijoy Krishna Debnath (National Institute of Technology Agartala), Pinki Majumder, Uttam Kumar Bera, <i>A fuzzy economic order quantity (FEOQ) inventory model: A fuzzy differential equation approach</i>

January 9, 2018 Time: 15.45 -18:00 Venue: Conference Room
Technical Session-I B
Chairman : T. Parthasarathy, Chennai Mathematical Institute, Chennai, India

1.	P. Aparna (MBA Dept, Sir CRReddy PG Courses, Eluru) <i>Extended abstract for Travelling Salesman problem in Business Analytics</i>
2.	Akanksha Singh (Thapar University, Patiala, Punjab) <i>Modified non-linear programming method for multi-criteria decision making problems under interval neutrosophic set environment</i>
3.	Tina Verma (Indian Institute of Technology, Ropar), Arvind Kumar Gupta, <i>A bi-objective programming approach for solving imprecise matrix games by considering Payoff as intervals</i>
4.	Shahid Ahmad Bhat (Thapar University, Patiala, Panjab) <i>A fuzzy AHP approach to construct international hotel spa atmosphere evaluation model: Suggested modification</i>
5.	Mamta Agrawal (VIT Bhopal University) <i>Computational Model to Study Temperature Distribution In Deep Tissue Of Human Limb Containing Liposarcoma Tumor</i>
6.	Shivani Gupta (University of Delhi), Vandana Gupta, <i>On the Reliability of Secured Communication in Vehicular Ad-Hoc Networks</i>
7.	Arshdeep Kaur (Thapar University, Patiala, Punjab) <i>The Inclusion-Based LINMAP Method for Multiple Criteria Decision Analysis Within an Interval-Valued Atanassov's Intuitionistic Fuzzy Environment: Suggested Modification</i>

January 9, 2018 Time: 18:30-20:00 Cultural Programme followed by Dinner

Venue: Auditorium, Dinner: Guest House Lawn

January 10, 2018 Time: 10:00 -11:20 Venue: Auditorium

Invited Session III

Chairman: Katta G. Murty, University of Michigan, Ann Arbor, USA

1.	Juan Enrique Martínez-Legaz (Universitat Autònoma de Barcelona, Spain), <i>Extensions of the Frank-and-Wolfe Theorem</i>
2.	Masahiro Hachimori (University of Tsukuba, Japan), <i>Partitioning simplicial complexes and their h-triangles</i>

Tea Break: 11:20 -11:40

January 10, 2018 Time: 11:40 -13:00 Venue: Auditorium

Invited Session IV

Chairman: T E S Raghavan, University of Illinois at Chicago, USA

1.	Andrey Garnaev (Saint Petersburg State University, Russia) <i>Revising a search game: Rival might not be rational</i>
2.	Bo Chen (University of Warwick, UK), <i>Analysis of a Procurement Game with Option Contracts</i>

Lunch Break: 13:00 -14:00

Invited Session V

January 10, 2018 Time: 14:00 -16:00 Venue: Auditorium

Chairman: Andrey Garnaev, Saint Petersburg State University, Russia

1.	Satoru Takahashi (National University of Singapore) <i>Blackwell Equilibria</i>
2.	J. Jude Kline (University of Queensland, Brisbane, Australia) (jointly with Thierry Lavendhomme and Samuel Waltener) <i>From Memories to Inductively Derived Views: A Constructive Approach</i>
3.	Anna Khmelnitskaya (Saint-Petersburg State University, Russia) (jointly with Gerard van der Laan and Dolf Talman) <i>Centrality rewarding Shapley and Myerson values for undirected graph games</i>

Tea Break: 16:00 -16:15

January 10, 2018 Time: 16:15 -18:15 Venue: Auditorium
Technical Session-II A
Chairman : Pierre Flener, Uppsala University, Sweden

1.	Amita Sharma , (Indian Institute of Information Technology Guwahati) , Anubha Goel , Aparna Mehra , <i>Deviation Measure in Second Order Stochastic Dominance with an Application to Enhanced Indexing</i>
2.	D. Aussel, J. Dutta and T. Pandit (IIT Kanpur, India), <i>About the links between equilibrium problems and variational inequalities</i>
3.	Hamidur Rahman (Indian Institute of Technology Bombay, Mumbai, India) and Ashutosh Mahajan, <i>Facets of a Mixed-Integer Bilinear Covering Set with Bounds on Variables</i>
4.	Manish Sarkhel , and Nagarajan Krishnamurthy (Indian Institute of Management (IIM) Indore, India, <i>Stability in core-periphery production networks</i>
5.	Umakanta Pattanayak (Indian Institute of Technology Bombay, Mumbai, India) , Vishnu Narayanan, <i>Geometry of Integer hulls of Strictly Convex Sets</i>
6.	Tejas Ghorpade and Narayan Rangaraj (Indian Institute of Technology Bombay, India) <i>Two-step Algorithm for Pickup-Delivery Problem</i>
7.	Sarvesh Bandhu (Indian Statistical Institute, Delhi) <i>Strategy-Proof Random Social Choice Rules with Lexicographic Ordering.</i>

January 10, 2018 Time: 16.15 -18:15 Venue: Conference Room

Technical Session-II B

Chairman: T.E.S. Raghavan, University of Illinois at Chicago

1.	Karuna (University of Delhi, India) C.S. Lalitha, <i>Approximate weak efficient solutions and continuity in parametric set Optimization</i>
2.	KC Lalropuia (University of Delhi), Vandana Gupta, <i>Dependability analysis of internet of things (IoT) under attack based on game theory and semi-Markov process.</i>
3.	Akansha Mishra (Thapar University, Patiala Punjab, India), <i>Some Picture Fuzzy Aggregation Operators and Their Applications to Multicriteria Decision-Making: Suggested Modifications</i>
4.	Chayanika Rout , Debjani Chakraborty and Adrijit Goswami (Indian Institute of Technology, Kharagpur - 721302, India) <i>An EPQ Model for Deteriorating Items with Imperfect Production, Two Types of Inspection Errors and Rework</i>
5.	Anju Saini (VIT Bhopal University, Bhopal, India), V.K. Katiyar and Sarita, <i>Mathematical Simulation of Incompressible Newtonian Blood Flow with a Multiple Stenosed Artery</i>
6.	Sarita Singh (Doon University Dehradun, India), V.K. Katiyar, <i>Pulsatility Effect of Oxygen Transport In Human Lung Bifurcation: A Numerical study</i>
7.	Sonali Sethi (School of Mathematics, Thapar University, Patiala, India) <i>Duality for a class of non-differentiable minimax fractional programming problems with generalized invexity</i>

January 11, 2018 Time: 10:00 -11:20 Venue: Auditorium

Invited Session VI

Chairman: Yasunori Kimura, Toho University, Funabashi, Japan

1.	T.E.S. Raghavan (University of Illinois at Chicago) <i>On completely mixed equilibria and equilibrium payoffs in game forms and in normal form games</i>
2.	T. Parthasarathy (Chennai Mathematical Institute, Chennai, India) <i>Univalence Principle in the sense of Gale and Nikaido</i>

. Tea Break: 11:20 -11:40

January 11, 2018 Time: 11:40 -13:00 Venue: Auditorium

Invited Session VII

Chairman: T. Parthasarathy (Chennai Mathematical Institute, Chennai, India)

1.	J. Dutta (Indian Institute of Technology Kanpur, India) <i>Detecting the Convexity of a Function and related Issues</i>
2.	Yasunori Kimura (Toho University, Japan), <i>Iterative methods for finding a fixed point of a mapping on geodesic spaces</i>

Lunch Break: 13:00 -14:00

January 11, 2018 Time: 14:00 -16:00 Venue: Auditorium

Invited Session VIII

Chairman: Anna Khmel'nitskaya (Saint-Petersburg State University, Russia)

1.	S Dharmaraja (Indian Institute of Technology Delhi) <i>Optimal trading problem under stochastic dominance constraints and autoregressive price dynamics</i>
2.	C.S. Lalitha (University of Delhi, India) <i>Pointwise and global well-posedness in set optimization: A direct approach</i>
3.	Pankaj Gupta (University of Delhi, India) <i>Multi-attribute Decision Making</i>

Tea Break: 16:00 -16:15

January 11, 2018 Time: 16:15 -18:15 Venue: Auditorium

Technical Session-III A

Chairman : Joydeep Dutta, Indian Institute of Technology, Kanpur, India

January 11, 2018 Time: 16:15 -18:15 Venue: Auditorium

Technical Session-III A

Chairman : Joydeep Dutta, Indian Institute of Technology, Kanpur, India

1	Shiva Kapoor (University of Delhi), C. S. Lalitha, Painleve-Kuratowski convergence of solution sets in unified vector optimization
2.	Rohit Gupta (IIM, Lucknow), Indranil Biswas, Sushil Kumar, Pricing decisions for three-tier supply chain under fuzzy environment: A game-theoretic approach
3.	Ruchika Sehgal (Indian Institute of Technology Delhi) and Aparna Mehra, <i>Robust Gini Mean Difference Portfolio Optimization</i>
4.	Akhilesh Kumar (Delhi Technological University) Anjana Gupta, Aparna Mehra, <i>A Bilevel Programming Model for a Cohesive Decision Making on Strategic Pricing and Production Distribution Planning for a Small Scale Supplier</i>
5.	Meenakshi Gupta (University of Delhi), Manjari Srivastava, <i>Well-Posedness and Scalarization in set Optimization</i>
6	Pankaj Gupta, Mukesh Kumar Mehlawat, Nishtha Grover (University of Delhi) Witold Pedrycz, An extended TOPSIS method under interval-valued intuitionistic fuzzy environment
7.	Abdullah Al-Qudaimi (Thapar University, Patiala, Punjab) <i>Fuzzy Regression Models Using the Least-Squares Method Based on the Concept of Distance: Suggested modifications</i>

January 11, 2018 Time: 16.15 -18:15 Venue: Conference Room

Technical Session-III B

Chairman: Anna Khmel'nitskaya, Saint-Petersburg State University, Russia

1.	Priyanka Yadav (University of Delhi), C. S. Lalitha, <i>Optimality conditions for optimization problems with nonconvex feasible set</i>
2.	Mansi Dhingra (University of Delhi), C. S. Lalitha, <i>Henig subdifferential for a set-valued optimization problem</i>
3.	Vivek Laha, Pushkar Jaisawal (Banaras Hindu University) <i>On Sufficiency and Duality for multiobjective programming problems using convexifiers</i>
4	Anurag Paul, Kabir Rustogi (Delhivery, Plot 5, Sector 44, Gurgaon) <i>Optimizing the Last-Mile in Ecommerce Logistics using Sub-contracting Options and Historic GPS Location Data</i>
5.	Rohit Gupta (Indian Institute of Management Lucknow) Indranil Biswas, Sushil Kumar, <i>Pricing decisions for three-tier supply chain under fuzzy environment: A game-theoretic approach</i>
6	Bhawna Kohli (Department of Mathematics, University of Delhi, Delhi, India) <i>Necessary and sufficient optimality conditions using convexifiers for mathematical programs with equilibrium constraints</i>