Workshop on
Applied Optimization Models and Computation

Program Overview

Inaugural Session Details

January 28, 2015   Time: 10:00 -10:30   Venue: Auditorium

Welcome address, Opening Remarks, About Workshop

Tea Break: 10:30-11:00

Sessions Details

January 28, 2015   Time: 11:00 -13:00   Venue: Auditorium

Invited Session I

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

1.	**Lina Mallozzi** (University of Naples Federico II via Claudio 21, 80125 Naples, Italy) A Bilevel Location-Allocation Problem in the Planar Region
2.	**Sandeep Juneja** (Tata Institute of Fundamental Research, Mumbai) Ordinal Optimization in Simulation and Pure Exploration Multi-Armed Bandit Methods
3.	**T. E. S. Raghavan** (University of Illinois at Chicago, USA) Legal Disputes Resolved Via Game Theoretic Methods

Lunch: Guest House Lawn   Time 13:00 – 14:00

January 28, 2015   Time: 14:00 -15:15   Venue: Auditorium

Invited Session II
Chairman : David Bartl, University of Ostrava, Czech Republic.

1.	**S. K. Mishra** (Banaras Hindu University, Varanasi, India) On Minty Variational Principle for Nonsmooth Vector Optimization Problems with Approximate Convexity
2.	**B.K.Mohanty** (Indian Institute of Management, Lucknow), Multiple Attribute Decision Making in e-Business- A Fuzzy Approach

Tea Break: 15:15-15:45
January 28, 2015   Time: 15:45 -18:00   Venue: Auditorium

Parallel session-I
Chairman : T parthasarathy, *Chennai Mathematical Institute and Indian Statistical Institute Chennai*

1.	**Dipti Dubey** (Indian Statistical Institute Delhi Centre) On Linear Complementarity Problem with a Hidden-Z Matrix
2.	C.S. Lalitha and **Mansi Dhingra** (University of Delhi) Approximate Lagrangian duality for set-valued optimization problem
3.	**Syeda Darakhshan Jabeen** (Indian Institute of Technology Kanpur) Designing vehicle parameters using Split and discard decision making strategy
4	**Deepmala,** Indian Statistical Institute, Kolkata, Solving Optimization Problems using Mathematica
5	**J.K. Verma** and C.P. Katti (Jawaharlal Nehru University/School of Computer & Systems Sciences, New Delhi, 110067, India), Optimized Resource Utilization Techniques for Cloud Computing Environment

January 28, 2015   Time: 15:45 -18:15   Venue: Conference Room

Parallel session-II
Chairman : B. K. Mohanty Indian Institute of Management, Lucknow

1.	**Mahima Gupta** (Great Lakes Institute of Management, Chennai, India) Opinion mining using Internet Reviews: A Fuzzy MADM approach
2.	**Anjali Singh,** Anjana Gupta, Aparna Mehra An AHP-PROMETHEE II Method for 2-tuple Linguistic Multi-criteria Group Decision Making**,** Delhi Technological University, Delhi 110042, India
3.	**Mamata Sahu,** Anjana Gupta, Aparna Mehra Interval Valued Intuitionistic Fuzzy Multiple Criteria Decision Making Problem, Delhi Technological University, Delhi 110042, India
4	**Pankaj Kumar** (Shiv Nadar University, India) Convex Optimization for Big Data in Finance
5	**Shreya Khosla** (Shiv Nadar University, India) Task Scheduling in Cloud Computing Environments using Large Scale Linear Programming
6	**Ashish Bhayana** (Shiv Nadar University, India) Classification of URLs based on malign/benign: An optimization approach
7	**Akhilesh Kumar**, Anjana Gupta, Aparna Mehra (Delhi Technological University, Delhi, India) Multiobjective Vendor's Decision Problem on Contingent Demand Satisfaction
8	**Shivi Agarwal** (BITS, Pilani) Fuzzy BCC Data Envelopment Analysis Model: A Credibility Approach

Cultural Programme: Classical Music

Dinner : Guest House Lawn   Time 20:30 – 21:30

January 29, 2015   Time: 10:00 -11:20   Venue: Auditorium

Invited Session III

Chairman : R. B. Bapat, Indian Statistical Institute Delhi

1.	**N. Hemachandra** (Indian Institute of Technology Bombay) When are Some Queues (Not) in Equilibrium?
2.	**David Bartl,** University of Ostrava, Czech Republic, Farkas Lemma and Linear optimization in abstract spaces: the infinite case

Tea Break: 11:20-11:45

January 29, 2015   Time: 11:45 -13:00   Venue: Auditorium

Invited Session IV

Chairman : **Lina Mallozzi,** University of Naples Federico II via Claudio 21, 80125 Naples, Italy

1.	**Reshma Khemchandani,** (South Asian University, New Delhi) Support Vector Machines and its Extension.
2.	**Reshma Khemchandani,** (South Asian University, New Delhi) Solving Optimization Models Using MATLAB

Lunch: Guest House Lawn   Time 13:00 – 14:00

January 29, 2015   Time: 14:00 -15:15   Venue: Auditorium

Invited Session V

Chairman : David Bartl, University of Ostrava, Czech Republic.

1.	**Suresh Chandra** (Indian Institute of Technology Delhi) Application of Quadratic Programming in Portfolio Optimization
2.	**Valeriu Ungureanu** (State University of Moldova) Mathematical Theory of Pareto-Nash-Stackelberg Game-Control Models

Tea Break: 15:15-15:45

January 29, 2015   Time: 15:45 -18:30   Venue: Auditorium

Parallel session-III
Chairman : T. E. S. Raghavan, University of Illinois at Chicago, USA

1.	**Prasenjit Mondal** & Sagnik Sinha (Jadavpur University, Kolkata-700032, India) One Player Control Semi-Markov Games With Limiting Average Payoffs
2.	**Kalpana Shukla** (GLA University, Mathura-281406 India) Optimality and Duality of Variational Programming Problems
3.	S. K. Mishra and **B. B. Upadhyay** (Banaras Hindu University, Varanasi-221005, India) On Relations between Vector Variational Inequality and Nonsmooth Vector Pseudolinear Optimization Problems
4	**Amit K. Bardhan** (Faculty of Management Studies, University of Delhi) On Computation of Minimal Forecast Horizon for a Stochastic Dynamic Lot-Size Problem
5.	**Debasish Ghorui** (Jadavpur University, Kolkata) Use of Maple to Solve Optimization Problem
6.	**Rwitam Jana**, (Jadavpur University, Kolkata), On computation using MATLAB

January 29, 2015   Time: 15:45 –18:30   Venue: Conference Room

Parallel session-IV

Chairman : T parthasarathy, Chennai Mathematical Institute
and Indian Statistical Institute Chennai

1.	**R. K. Arora,** Amit Sachdeva, V Ashok, Abhay Kumar, S Pandian,(Vikram Sarabhai Space Centre, Trivandrum) Multi-objective Shape Optimization of a Re-entry Capsule
2.	**Sadia Samar Ali** (New Delhi Institute of Management, New Delhi) Exploring Green Manufacturing antecedents: A MICMAC Analysis
3.	**M. Upmanyu**, R. R. Saxena (University of Delhi) On Solving a Multiobjective Fixed Charge Problem with Imprecise Fractional Objectives
4	**Pulkit Dwivedi** (Shiv Nadar University, India) Portfolio Optimization Problem involving Big Data Analytics
5	**Abhinav Banerjee** (Shiv Nadar University, India) Pricing Decision Optimisation Using Data for Online Retailers
6	**Rupakshi Bhatia** (Shiv Nadar University, India) On Optimizing Resource Consumption and Crowd-based pick-up and delivery for a distribution network
7.	**Premanjali Rai** and Kunwar P. Singh, (CSIR-Indian Institute of Toxicology Research, Lucknow) Optimization of Tetracycline Adsorption By Magnetic Carbon from Water Using Box-Behnken Design and Response Surface Modeling

January 30, 2015   Time: 10:00 -11:20   Venue: Auditorium

Invited Session VI

Chairman : R. B. Bapat, Indian Statistical Institute Delhi

1.	**T. Parthasarathy** (Chennai Mathematical Institute, Chennai, India & Indian Statistical Institute, Chennai, India) Completely Mixed Stochastic Games
2.	**Pranab Muhuri** (South Asian University, New Delhi) Optimization Under Fuzzy Uncertainty For Time And Safe-Critical Systems

Tea Break: 11:20-11:45

January 30, 2015   Time: 11:45 -13:00   Venue: Auditorium

Invited Session VII

Chairman : Valeriu Ungureanu, State University of Moldova

1.	**Aparna Mehra** (Indian Institute of Technology Delhi) Data Envelopment Analysis Approach to 'Green' Efficiency
2.	**A. K. Das** (Indian Statistical Institute, Kolkata) Role of Principal Pivot Transform in Optimization

Lunch: Guest House Lawn   Time 13:00 – 14:00

January 30, 2015   Time: 14:00 -15:15   Venue: Auditorium

Invited Session VIII

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

1.	**C. S. Lalitha** (University of Delhi) Solution Concepts in Vector and Set Optimization
2.	**Pankaj Gupta** (University of Delhi) Portfolio Optimization: Some Recent Advances

Tea Break: 15:15-15:30

January 30, 2015   Time: 15:30 -17:30   Venue: Auditorium

Invited Session IX

Chairman : A. K. Das, Indian Statistical Institute, Kolkata

1.	**P. C. Jha** (University of Delhi) Sustainable Supply Chain Management
2.	**Sagnik Sinha,** (Jadavpur University, Kolkata 700032, India) Semi-Markov Decision Processes with Limiting Average Rewards

January 30, 2015   Time: 15:45 -17:30   Venue: Conference Room

Parallel session-V

Chairman : T parthasarathy, *Chennai Mathematical Institute*
and Indian Statistical Institute Chennai

1.	B.S. Panda, **Arti Pandey** (Indian Institute of Technology Delhi New Delhi) Open Neighborhood Locating-Dominating Set In Graphs: Complexity And Algorithms
2.	**Amita Sharma** (Indian Institute of Technology Delhi New Delhi) An overview of Index Tracking and Enhanced Index Tracking
3.	**Meenal Chauhan** (Visva-Bharati University, Shantiniketan) On Solving Optimization problem in R
4.	**Desai Trunil Shamrao** (ICGEB, New Delhi) Metabolic Modelling through Optimization Strategies
5.	**S. Krishnakumar** (ICGEB, New Delhi) Genome Scale Metabolic Model Development and Flux Analysis of Thermophilic Organism: An *In Silico* Optimization Approach

High Tea: 17:30-18:00