

# RAOTA-2016

*International Conference on  
Recent Advances in Optimization Theory and  
Applications (RAOTA)  
January 30–31, 2016*



*Conference is organized in memory of Prof. M. C. Puri (1939-2005). He taught at Hansraj College, University of Delhi and later joined Indian Institute of Technology Delhi. He was a distinguished teacher, a dedicated researcher, a genuine humanitarian and above all a great soul. His passion and devotion for research prevailed till his last breath on December 28, 2005 while attending the 38th Annual Convention of Operational Research Society of India at Indian Institute of Science, Bangalore.*

**Jointly Organized by:**

- \* Mathematical Programming Group, Delhi.
- \* Department of Operational Research, University of Delhi.
- \* Department of Mathematics, University of Delhi.

## Scope of the Conference

The purpose of RAOTA is to provide a national forum for researchers and practitioners working in the area of optimization to present and exchange the state-of-art research results. Often, such interactions lead to new and challenging research areas and collaborations. The term optimization refers to the study of problems in which one seeks to minimize or maximize a given function by choosing values of the variables from within a set. Optimization problems are central to human existence. There is hardly any area of human progress where optimization has not been found.

Post second war era of mathematical development took a turn towards concretizations. These developments were, in turn, reinforced by industrial and managerial revolutions bringing the organizational decision-making to fore of the mathematicians concerned. Optimization models and methods in this direction have come a long way since then to improve the way we do things: for example, in traffic we might wish to reduce delays, in electric power operations we may device ways to deliver power while incurring minimal losses, in packet networks we might wish to reduce both packet delays and packet losses. Such applications and many others of the same nature draw upon the foundations of optimization theory and algorithms. Some of the other areas where optimization tools have found applications include operations management, finance, marketing, engineering, strategic planning, manufacturing, E-business, supply chain management, data envelopment analysis, industrial operational research and operations research in infrastructure.

We aim to bring in forefront many facets of Optimization, namely, smooth and non-smooth optimization, convex and non-convex optimization, integer and combinatorial optimization and deterministic & stochastic optimization with emphasis on both theory and applications.

**The topics of interest are but not limited to :**

- Mathematical Programming
- Generalized Convexity/Monotonicity
- Combinatorial Optimization
- Fuzzy Optimization
- Game Theory
- Engineering / Industrial Applications
- Financial Optimization
- Inventory and Supply Chain Management
- Neural Networks
- Optimal Control
- Set-valued Optimization
- Software Reliability
- Stochastic Optimization
- Variational Analysis
- Variational Inequalities
- Vector Optimization
- Evolutionary Algorithms
- Applications to real world problems

## Abstract Submission

One page abstract of the research paper for presentation in the conference may be submitted through email at [raota2016@gmail.com](mailto:raota2016@gmail.com). The abstract should clearly mention the research objectives and name of the authors along with the details of the presenter. The preferred format for submission is MS-WORD.

## Registration Fee

Students/Research Scholars/	
Faculty members	: Rs. 2,000/-
Industry Personals	: Rs. 3,000/-
Foreign Participants	: USD 150

The Participants may register by sending the complete and duly signed Registration Form along with the Demand Draft in favor of **Mathematical Programming Group** payable at Delhi by **January 15<sup>th</sup>, 2016**.

## Invited Speakers

- **Q. H. Ansari**, AMU, India
- **S. S. Appadoo**, University of Manitoba, Canada
- **C. R. Bector**, University of Manitoba, Canada
- **R. Cambini**, University of Pisa, Italy
- **Suresh Chandra**, IIT Delhi, India
- **Gioavanni Crespi**, University of Aosta Valley, Italy
- **S. Dharmaraja**, IIT Delhi, India
- **Joydeep Dutta**, IIT Kanpur, India
- **C. B. Gupta**, BITS Pilani, India
- **T. Hasuike**, Waseda University, Japan
- **C. K. Jaggi**, University of Delhi, India
- **P. C. Jha**, University of Delhi, India
- **Karmeshu**, JNU, India
- **M. Mathirajan**, IISc Bangalore, India
- **E. Miglierina**, Università Cattolica del Sacro Cuore, Italy
- **Aparna Mehra**, IIT Delhi, India
- **S. K. Mishra**, BHU, India
- **B. K. Mohanty**, IIM Lucknow, India
- **S. K. Neogy**, ISI Delhi, India
- **Vanita Verma**, Panjab University, India
- **S. P. Yadav**, IIT Roorkee, India

## Advisory Committee

- **Aquil Ahmed**, AMU, India
- **B. K. Dass**, University of Delhi, India
- **T. R. Gulati**, IIT Roorkee, India
- **P. K. Kapur**, AIBS, AUUB, India
- **Ajay Kumar**, University of Delhi, India
- **Kusum Deep**, IIT Roorkee, India
- **A. Saxena**, University of Delhi, India

## Accommodation

Few accommodation arrangements can be made for the participants on prior request before **January 15<sup>th</sup>, 2016** in the university campus.

## Committees

### Chief Patron

**R. N. Kaul**, University of Delhi, India

### Honorary Chairs

**S. R. Arora**, University of Delhi, India

**D. Bhatia**, University of Delhi, India

**Suresh Chandra**, IIT Delhi, India

**S. K. Suneja**, University of Delhi, India

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**Mukesh Kr. Mehlatat**, University of Delhi, India

### Organizing Committee

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**Ratnesh R. Saxena**, University of Delhi, India

**Manjari Srivastava**, University of Delhi, India

**Vani**, University of Delhi, India

**Shilpi Verma**, University of Delhi, India

## Contact Person

All conference related queries can be sent to **Dr. Mukesh Kumar Mehlatat**, Department of Operational Research, University of Delhi at the conference email-id **[raota2016@gmail.com](mailto:raota2016@gmail.com)**

## Registration Form

**RAOTA-2016**

**January 30–31, 2016**

1. Name :.....
2. Gender:.....
3. Designation:.....
4. Organization:.....
5. Correspondence Address:.....  
.....  
Mobile:.....  
Email:.....
6. Qualifications:.....
7. Teaching/Research Exp. (years):.....
8. Lodging Requirement: Yes/No.....
9. Area of Research: .....  
.....
- 10 Registration fee details
  - a) Date :.....
  - b) Draft Number :.....
  - c) Issuing Bank :.....

Signature of Candidate