



**Operational Research Society of India**

**37th Annual Convention**

**Vision 2020:  
The Strategic Role of  
Operational Research**

**January 8-11, 2005**

**Venue**

**KLMD, Indian Institute of Management Ahmedabad Campus**

**Host**

**ORSI Ahmedabad Chapter**

**Convention Website: [www.orsi2005.org](http://www.orsi2005.org)**

# ***Vision 2020: The Strategic Role of Operational Research***

January 8-11, 2005

ORSI Ahmedabad chapter is pleased to announce that the 37th Annual Convention of the Operational Research Society of India would be held during January 8 - 11, 2005 in KLMDC, Indian Institute of Management, Ahmedabad campus, Vastrapur, Ahmedabad 380 015. The convention theme is 'Vision 2020: The Strategic Role of Operational Research'.

## **Motivation**

Several initiatives are underway in the Indian context to transform India as a developed nation by 2020. It is the responsibility of the scientific establishments and professional bodies to contribute towards such a transformation. ORSI, being a premier scientific association, is pleased to play this important catalytic role.

Operational research is defined primarily as a discipline, which would enable the decision maker to evaluate alternatives and make a choice to enhance resource productivity and maximize the contextual objective.

The President of India Dr. A.P.J. Kalam has recently written a book on how India should transform itself as a developed country by 2020 (*India 2020: A Vision for the New Millennium* by A.P.J. Abdul Kalam and Y.S. Rajan, Penguin Books India, 2002). The convention theme is inspired by this book and seeks to explore possible opportunities for OR as a scientific discipline in enabling this transformation.

This convention is planned with an aim to bring together academicians, practitioners and policy makers to reinforce the usage of formal procedures in evolving suitable alternatives in a complex social environment.

<b>PROGRAM COMMITTEE</b>	<b>Patron</b>	M.R. Rao, Dean, ISB Hyderabad, President, ORSI
	Bakul H. Dholakia, Director, IIM Ahmedabad	Sanjay Verma, Professor, IIM Ahmedabad
	<b>Convention Chair</b>	Mayank Dholakia, Dean, Management Studies, M.S. University, Baroda
	N. Ravichandran, Professor, IIM Ahmedabad	Sarla Achuthan, Director, B.K. School of Management, Ahmedabad
	A.C. Brahmabhatt, Professor, B. K. School of Management, Ahmedabad	Prashant Gupta, Professor, Nirma Institute of Management, Ahmedabad
	Rajeshri Bhatt, Head, Dept. of Statistics, Gujarat University, Ahmedabad	Satendra Kumar, Director, Dept. of Business Mgmt., South Gujarat Univ.
	Dileep Mavalankar, Professor, IIM Ahmedabad	Pratapsinh Chauhan, Director, Dept. of Business Mgmt., Saurashtra Univ.
	S. Chinnam Reddy, Director, S.K. Patel Inst. of Management, Gandhinagar	V. Venkata Rao, Professor, IIM Ahmedabad
	Girja Sharan, Professor, IIM Ahmedabad	
	S.S. Pokarnath, Secretary, ORSI, Ahmedabad Chapter	

## For Whom

- Students, teachers, academicians in the area of Mathematics, Statistics, Operational Research, Computer Science, Industrial Engineering, Management Science, etc.
- Practitioners who are in a responsible position in the industry (Manufacturing and Service Sectors) and who can plan and contribute to the organization's decision making process.
- Policy makers in government who can formulate and implement socially relevant projects to transform India as a developed nation.

## Structure of the Convention

The first day of the convention would be devoted to presentations by Ph.D. students from Indian universities based on their research work in progress. This will be followed by a Teacher's Workshop and a popular lecture on Operational Research. There will also be a student paper competition.

A typical convention day would consist of plenary sessions, theme based invited talks, tutorials and state of art review presentations, panel discussions and contributed sessions.

## More Details

- Plenary sessions on Optimization, Revenue Management, Data Envelopment Analysis, Supply Chain Management and Applied Game Theory are being planned.
- About dozen invited talks by academicians from India and practitioners from the Industry will be organised.
- Several theme-based invited talks in the areas of transportation, department of postal services, education, health and project management also are being planned.
- Specific theme-based invited sessions in the areas of banking, information technology, marketing, operations, agriculture, health and infrastructure will be held.
- The convention will also have panel discussions on infrastructure, OR education and industrial applications. The final schedule will include details of these activities.

## NATIONAL ADVISORY COMMITTEE

A.K. Mittal, Head, Industrial & Mgmt. Dept., IIT, Kanpur\*

A. Krishnamoorthy, Professor, Dept. & Mathematics, Cochin University, Cochin\*

A.H. Kalro, Director, AES PG Inst. of Busi. Mgmt., Ahmedabad\*

A.K. Sarje, Head, Electronic & Comp. Dept., IIT, Roorkee\*

A. Patwardhan, School of Mgmt., IIT, Bombay\*

Atul Tandan, Director, MICA, Shela, Ahmedabad\*

Bani K Sinha, Editor-in-chief, Opsearch\*

D.C. Dalal, Head, Mathematic Dept., IIT, Guwahati\*

Deba Kumar Tripathy, Director, NIT, Warangal

Devanath Tirupati, Professor, IIM, Ahmedabad

G. Raghuram, Professor, IIM, Ahmedabad

Goutam Dutta, Professor, IIM, Ahmedabad

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Janat Shah, Professor, IIM, Bangalore

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M.C. Puri, Department of Mathematics, IIT, Delhi

N. Casimir Raj, S J, Director, XLRI, Jamshedpur\*

N. Jayasankaran, Vice-Chancellor, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram

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Nitin Agarwal, Professor, IIM Indore

P. Subramanian, NIT, Tiruchirappalli\*

P. Venkat Rangan, VC, Amrita Vishwa Vidyapeetham, Coimbatore

P.K. De, Professor, XLRI, Jamshedpur\*

## What can you do?

- Submit and present a contributed paper on any topic that is relevant to the convention theme
- Propose and organize a theme-based session
- Share an OR application with a wider audience
- Attend the convention for knowledge enhancement and exposure

Topics may include, but are not limited to the following:

Analytic Hierarchy Process	Health Applications	Planning Models
Applied Probability	Health Economics	Probability
Business Applications	Information Systems	Production Management
Business Process Reengineering	Innovation	Project Management
Cellular Manufacturing	Integer Programming	Public Health
Combinatorial Optimisation	Inventory Management	Quality Management
Data Envelopment Analysis	Linear Programming	Queuing Models
Data Mining	Logistics	Reliability
Decision Analysis	Manufacturing	Revenue Management
Decision Support System	Marketing	Scheduling
Dynamic Programming	Material Management	Simulation
E-Commerce	Mathematical Programming	Statistical Quality Control
Energy Modeling	Military Applications	Stochastic Optimization
Entrepreneurship	Multi-criteria Decision Making	Stochastic Process
Expert Systems/Neural Networks	Networks and Graphs	Supply Chain Management
Facility Planning and Design	New Product Development	Technology Management
Financial Engineering	Nonlinear Programming	Transportation
Flexible Manufacturing Systems	Optimization Techniques	
Forecasting	OR/MS Models	

P.K. Kapoor, Head, Dept. of OR, Univ. of Delhi\*

Pankaj Chandra, Professor, IIM, Ahmedabad

P. Sharma, Professor, Maths & Statistics dept, IIT Kanpur

Prem Vrat, Director, Dept. of Mgmt. Studies, IIT, Roorkee\*

R.R.K. Sharma, Head, Industrial & Mgmt. Dept., IIT, Kanpur

Rajat K. Baisya, Head, School of Mgmt., IIT, Delhi\*

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S.B.L. Garg, Head, Mgmt., IIITM, Gwalior\*

S.C. Agarwal, REC, Jaipur\*

S.P. Mukherjee, Centenary Professor of Statistics, Calcutta University

S.R. Mohan, SOC and OR Unit, ISI, Delhi\*

Saji Gopinath, Professor, IIM, Kozhikode\*

S. Chattopadhyaya, Head, Comp. Sci. Dept., IIT Guwahati\*

Shan Balasubramaniam, Comp. & Info. System Group, BITS-Pilani\*

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Umakant Dash, Group Leader, Management Group, BITS-Pilani\*

Umesh Bahadur, Professor, IIM, Lucknow

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Vijaya Kumar, Professor, School of Mathematics, Anna University, Chennai\*

Yogesh Agarwal, Professor, IIM, Lucknow\*

\* Confirmation awaited

## Convention Fee

All attendees would pay the registration fee.

Convention fee includes copy of the convention proceedings, access to the convention, lunches and dinners during the convention.

Category	Regular	Early Bird Before Dec. 1, 2004
Ph.D. students	Rs. 1,000	Rs. 750
ORSI members and academic community	Rs. 3,000	Rs. 2,500
Industry participants	Rs. 6,000	Rs. 5,000
Foreign delegates	US\$ 250	US\$ 200

## Publications

- Abstract booklet of all contributed papers, invited sessions, keynote address, plenary sessions would be made available to every participant as a part of the convention material.
- There will be a separate publication (published by a reputed publisher) of the papers presented in the convention. This will include the full text of the plenary addresses, theme based invited presentations, all invited contributions and peer reviewed contributed papers to the convention. The last date for including the full paper in the convention publications is **November 15, 2004**.
- OPSEARCH (the official journal of Operational Research Society of India) will bring out a special volume on the convention theme consisting of a select group papers after review.

## Prizes and Awards

- There will be a prize for the best doctoral dissertation presentation (Professor M.N. Gopalan award).
- The best three student papers would be awarded a cash prize.
- There will be a prize for the best theoretical paper presented in the convention and the best applied paper presented in the convention (Professor B.G. Raghavendra Memorial award).
- All papers submitted to the convention would be automatically considered for prizes and awards.
- Registration and paper submission can be done online by using the convention website.

## Important Dates

Early Registration	December 1, 2004
Abstract Submission:	December 15, 2004

## Convention Secretariat

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**Convention Website:**  
<http://www.orsi2005.org>

**OPERATIONAL RESEARCH SOCIETY OF INDIA (ORSI)** is a national forum set up with the objective of promoting the education and applications of Operational Research (OR) in day-to-day environment in business, industry and other organisations. It has headquarters in Kolkata (Calcutta) and is managed by a duly elected Governing Council. The Society has many Chapters in different parts of the country. The Chapters are involved in activities such as lecture meetings, seminars and discussions, short courses/ workshops and counselling to student members.

Membership of ORSI has various categories: Professional/Senior Member, Life Member/Member, Student Member, Graduate Member and Institutional Member.

The Society conducts graduateship examination in Operations Research twice in a year at several centres in India. The graduateship examination is recognized by the Ministry of Human Resources Development, Government of India. Students who have graduated in this programme are well accepted in the academic and industrial environments.

The ORSI publishes a quarterly journal called OPSEARCH which is recognized as one of the leading journals of OR in the world.

The Society is one of the founding members of the International Federation of Operational Research Societies (IFORS). It is also an active member of the Asian Pacific Operational Research Societies (APORS) and has taken a major role in the publication of the Asia-Pacific Journal of Operational Research. The IFORS is recognised by the United Nations as a specialist world organization. The ORSI holds a national Convention every year.

**INDIAN INSTITUTE OF MANAGEMENT, AHMEDABAD (IIMA)**, was set up by the Government of India in collaboration with the Government of Gujarat and Indian industry as an autonomous institution in 1961. The Institute provides education, training, consulting, and research facilities in management.

The Institute conducts the following major programmes:

- Two-Year Post-Graduate Programme in Management (equivalent to MBA)
- Two-Year Post-Graduate Programme in Agribusiness Management (equivalent to MBA)
- Fellow Programme in Management (equivalent to Ph.D.)
- Management Development Programmes (MDPs) for industry, business, agricultural and rural sectors, and public systems covering education, health, transport, and population. In the last 42 years, over 37,000 managers have participated in various MDPs.
- Faculty Development Programme for teachers in universities and colleges.

The Institute has about 84 faculty members working in the following management areas and sectors:

**DISCIPLINARY AREAS** ❖ Business Policy • Communications • Economics • Finance and Accounting • Marketing • Organizational Behaviour • Personnel and Industrial Relations • Production and Quantitative Methods

**INTERDISCIPLINARY CENTRES AND GROUPS** ❖ Centre for Management in Agriculture • Centre for Regional Management Studies • Computer and Information Systems Group • International Management Group • Public Systems Group • Ravi Matthai Centre for Educational Innovation