Data mining is a powerful new technology with great potential to help organizations focus on the most important information in their data warehouses. It has been defined as the automated analysis of large or complex data sets in order to discover significant patterns or trends that would otherwise go unrecognized. Data mining is also suitable for complex problems involving relatively small amount of data but where there are many fields or variables to analyse. The goal of data mining is to unearth relationships in data that may provide useful insights. The core components of data mining technology have been under development for decades in research areas such as statistics, artificial intelligence, and machine learning. Today, the maturity of these techniques, coupled with high-performance relational database engines and broad data integration efforts, make these technologies practical for current data warehouse environments. Data mining is supported by three technologies that are now sufficiently mature - Massive data collection, Powerful multiprocessor computers and Data mining algorithms. Data mining techniques can yield the benefits of automation on existing software and hardware platforms to enhance the value of existing information resources.

The objective of this workshop is to understand the different facets of data mining like applications, operations, techniques and algorithms. The workshop will also focus on the development of new computational techniques and enhance awareness of the current research in the field of data mining and its applications in different domains. The participants for this programme will be the faculties and research scholars from universities / colleges as well as the engineers and managers from industries representing both manufacturing as well as service sectors. The lectures will be delivered by a mix of faculty from ISI as well as the invited speakers from other institutions. The StatSoft will demonstrate the different utilities of DATA MINER toolbox in the Statistica Software during the workshop.
PATRON

Bimal K. Roy, Director, ISI, Kolkata

ADVISORY COMMITTEE

Kay Chen Tan, NUS, Singapore
Aditya Bagchi, ISI, Kolkata
N.R. Bandyopadhyay, BESU, Shibpur
N.R. Pal, ISI, Kolkata
Sanghamitra Bandyopadhyay, ISI, Kolkata

ORGANISING COMMITTEE

A.K. Chakrabarty, ISI, Kolkata
A.R. Mukhopadhyay, ISI, Kolkata
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Shubhabrata Datta, PCMT, Kolkata
Pabitra Mitra, IIT, Kharagpur
Murali Rao, ISI, Hyderabad
A.K. Nandi, CMERI, Durgapur
Prasun Das, ISI, Kolkata

LIST OF SPEAKERS (tentative)

Kay Chen Tan, NUS, Singapore
Aditya Bagchi, ISI, Kolkata
Arun Pujari, Univ. of Hyderabad, Hyd
Nikhil Pal, ISI, Kolkata
G. Murali Rao, ISI, Hyderabad
Sanghamitra Bandyopadhyay, ISI, Kolkata
Subhomoy Moitra, ISI, Kolkata
Pabitra Mitra, IIT, Kharagpur
Shubhabrata Datta, PCMT, Kolkata
Participation:
Faculty members, Research scholars from universities / colleges / other academic institutes, and industry personnel having exposure with data analytics.

Registration Fee:
Individual Delegates: Rs. 3,000/-
Sponsored Delegates: Rs. 5,000/-
Students and Research Scholars: Rs. 2,000/-
(inclusive of workshop kit, food plus one workshop dinner).

Payment is to be made by Bank Draft only in favour of Indian Statistical Institute payable at Kolkata.

Accommodation:
Limited number of rooms (single/twin sharing) is available on a first-cum-first-serve basis in ISI Guest House / elsewhere with nominal charges (Rs.150/-).

Important Dates:
Last date of sending Filled-in Registration Form: 1st Feb 2013
Workshop Dates: 20 – 22nd Feb 2013
Workshop Duration: 10:00 hrs – 18:00 hrs

Venue:
NAB-1 Lecture Hall, Indian Statistical Institute, Kolkata

Address for Correspondence:
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Organising Secretary
SQC & OR Unit, Indian Statistical Institute,
203 B.T. Road, Kolkata – 700108, W.B., INDIA
Fax: +91-33-25776042
Phone: +91-33-25755948 Mobile: +91-9432117540
email: prasun@isical.ac.in; dasprasun10@gmail.com, dasprasun@rediffmail.com
About Indian Statistical Institute:

Indian Statistical Institute (ISI) is a premier institute involved in carrying out research, teaching, training and consultancy in Statistics, Mathematics, Social Sciences, Computer and Communication, Biological Sciences, Physics and Earth Sciences and Statistical Quality Control & Operations Research. The institute has been declared by the Government of India as an institution of national importance by an act of the parliament in 1959. This act was amended by the Parliament in 1995 to empower the Institute to award Degrees/Diplomas not only in Statistics, but also in Mathematics, Quantitative Economics, Computer Science and Quality, Reliability and Operations Research. The institute has considerable experience in carrying out applied / empirical research as well as development of mathematical / statistical models for different technical / business systems. "Unity in Diversity" is the motto of the Institute. The diversity within the Institute is evident through plethora of scientific endeavors. The unity has been the unity of purpose - furthering of the discipline of statistics. It may be worthwhile to mention here that Professor P.C. Mahalanobis, the founder of Indian Statistical Institute, rightly deserves the credit not only for the birth of “Statistics” in India but also for its overwhelming development over the years. For more details, please visit www.isical.ac.in

About SQC & OR Division, ISI:

The Institute also pioneered the development of Statistical Quality Control (SQC) in India. As early as in 1935, the Institute had recommended that the Government should take appropriate measures to initiate SQC methods in Indian industries. Walter A. Shewhart (the originator of SQC) came to India at the invitation of the Institute in 1947-48, toured the country, held conferences and stimulated interest among Indian industrialists. The follow-up work done by the Institute led to the recognition of SQC as a useful technique in the industry and resulted in the formation of a network of SQC Units in India. The SQC & OR Division, set up in 1953, now operates with 8 units. The basic objective of the Division is to propagate the use of SQC & OR and allied management techniques for improving quality, enhancing productivity, reducing manufacturing cost and losses in industries. During the last four decades of its existence, this is realized through academic programmes, consultancy services, in-plant and general training course for industrial personnel, systems and software development; organizing conference, seminars and research in the methods and procedures of quality control, operations research and allied techniques. The Division runs a full-time PhD programme and its Kolkata unit runs a two-year M.Tech programme in Quality, Reliability and Operations Research.
**REGISTRATION FORM**
(Please fill up in BLOCK CAPITALS)

1. Name:

2. Job Title:

3. Affiliation:

4. Educational Qualification:

5. Professional Experience (if any):

6. Postal Address:

7. Pin Code:

8. Email-id:

9. Phone (land/mob or both):

10. Registration Fee Details*:
    - Bank (with Branch)
    - DD No.
    - Date:
    - Amount (Rs.):

*DD to be drawn in favour of **Indian Statistical Institute** payable at **Kolkata**.

**Signature and Seal of the Concerned Audhotiry**  **Signature of the Participant with Date**

**Please fill up the registration form along with a recommendation letter from the Head of the Department/Institution (where you work/study) or your PhD Supervisor and send these to the Organising Secretary.**