

Winter School on Soft Computing Pattern Recognition, Image Processing and Data Mining, November 20-22, 2001, Aizawl, Mizoram.

Spring School on Soft Computing, Image Processing and Data Mining, March 12-16, 2001, Guwahati, Assam.

None of Above

I declare that the information given above is true to the best of my knowledge and belief.

Place:

Date: _____ Signature _____

Please photocopy the Registration Form for additional registrants.



Would anybody like his school to be located between hills, in a cool lush green valley; away from the hustle-bustle of the city; no din, just the cool breeze and the mountain river? Welcome to **NERIST** (a.k.a. North Eastern Regional Institute of Science and Technology), right in the foothills of eastern Himalayan range, beside the Dikrong river valley, near Itanagar, Arunachal Pradesh.

NERIST was founded in February 1984 as the premier technical institute for the seven sisters (states) of north-east India. The first batch of students joined the institute in 1986 in the brand new campus at Itanagar, to major in various faculties of Engineering and Applied Sciences.

The Institute follows an innovative curriculum to generate technical manpower at different levels. Students admitted after matriculation (10th grade) go through three modules of two years (four semesters) each. After completion of each module the student is awarded certificate, diploma and degree in the faculty of engineering or applied sciences respectively. There are also graduate and doctoral programs in engineering and basic sciences. The modular system provides flexibility to other students with proper qualifications to join the module of their choice.

Please send the Registration Form duly filled in by **December 15, 2004** along with your CV and a passport-size photograph to:

R. K. De/S. Bandyopadhyay/S. N. Biswas
Machine Intelligence Unit (MIU)
Indian Statistical Institute (ISI)
203 B. T. Road, Kolkata-700108
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ISI-NERIST WINTER SCHOOL ON SOFT COMPUTING, DATA MINING AND BIOINFORMATICS

FEBRUARY 14-18, 2005
NIRJULI, ARUNACHAL PRADESH



ORGANIZED JOINTLY BY

MACHINE INTELLIGENCE UNIT (MIU)
INDIAN STATISTICAL INSTITUTE (ISI)
203 B. T. ROAD, KOLKATA-700108
&
DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING
NORTH EASTERN REGIONAL INSTITUTE OF
SCIENCE AND TECHNOLOGY (NERIST)
NIRJULI, ARUNACHAL PRADESH

Objective: The school is aimed at providing an opportunity to the research students and teachers of north-eastern colleges/universities, with background in mathematics, statistics, computer science, electrical and electronic engineering, information technology, physics and related areas, to be exposed to recent state-of-art of soft computing, data mining and bioinformatics. Topics of the school will range from introductory concepts, theoretical developments, to different real life applications, and will be covered by the faculty members of the Machine Intelligence Unit, ISI, Kolkata.

Theme: Soft computing is a consortium of methodologies which work synergistically and provides in one form or another flexible information processing capabilities for handling real life ambiguous situations. Its aim is to exploit the tolerance for imprecision, uncertainty, approximate reasoning and partial truth in order to achieve tractability, robustness, low solution cost and close resemblance with human like decision making. In other words, it provides the foundation for the conception and design of high MIQ (Machine IQ) systems, and therefore forms the basis of future generation computing systems. At this juncture, Fuzzy Sets, Artificial Neural Networks (ANN), Genetic Algorithms (GA) and Rough Sets are the major components of Soft Computing.

Data mining is a form of knowledge discovery, essential for solving problems in a specific domain when the data is huge, both in dimension and number, and is heterogeneous (i.e., mixture of numeric, text, image, texture, symbolic) in nature. In other words, data mining involves the principles of pattern recognition and machine learning applied to a very large heterogeneous database. The objective is to identify valid, novel, potentially useful, and ultimately understandable patterns in data. In real life applications, image data often share a large portion of the mixed data and the success of analysis of such data depends on image processing tasks like image quality enhancement and feature extraction. A large number of researchers all over the world are engaged in developing various methodologies for pattern recognition, data mining and image processing for designing intelligent systems in different domains.

Bioinformatics involves interdisciplinary research comprising statistics, information science, and biology. It constitutes one of the foremost application domains, where pattern recognition/data mining is found to hold great promise. With the advent of sophisticated technologies, a huge amount of biological data (e.g., gene/amino acid sequences and gene expression) is continuously being generated. The objective is to extract some useful information from these data, and thereby provide some clinical/pathological/therapeutic knowledge for various human diseases. This branch of research is now categorized as bioinformatics.

Venue: Nirjuli, Arunachal Pradesh

Duration: February 14-18, 2005.

Participants: Research students and teachers from colleges/universities/research institutions/ laboratories in the north-eastern region of India having interest in related fields.

Support: There is no registration fee for the school. Out-station participants will be provided local hospitality and 2nd class railway/bus fare by the shortest route.

Patrons: J. Choubey, Director, NERIST

K. B. Sinha, Director, ISI

Program Director: S. K. Pal, *Distinguished Scientist & Head, MIU, ISI, Kolkata*

Program Coordinators: R. Datta, NERIST

S. N. Biswas, ISI

S. Bandyopadhyay, ISI

R. K. De, ISI

Local Organizing Committee: N. Marchang, NERIST

S. Bora, NERIST

M. Kathing, NERIST

K. Lego, NERIST

Speakers: S. K. Pal

M. K. Kundu

C. A. Murthy

S. Bandyopadhyay

R. K. De

REGISTRATION FORM

ISI-NERIST WINTER SCHOOL ON SOFT COMPUTING, DATA MINING AND BIOINFORMATICS

February 14-18, 2005

Nirjuli, Arunachal Pradesh

Name :

Designation :

Institution/Organization:.....

Address :

Telephone :

Fax :

Email :

Date of birth:.....

Sex: Male Female

Qualifications :

Publications:.....

(Enclose additional sheets if required)

Area of Research Interest:.....

Accommodation required: *Yes / No*

Interested in giving a talk: *Yes/ No*

If yes, provide a tentative title:

Please tick (✓) if you have attended the following schools:

Spring School on Data Mining and Bioinformatics: Recent Trends, March 22-26, 2004, Rangpo, Sikkim.

Autumn School on Pattern Recognition and Data Mining with Applications to Web and Biological Data, September 23-27, 2003, Sillong, Meghalaya.

P.T.O.