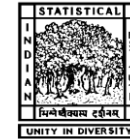


**NORTH-EAST ISI-DU SPRING SCHOOL  
ON  
ALGORITHMS FOR WIRELESS NETWORKS**

**(February 8 – 10, 2012)  
Centre for Computer Studies  
Dibrugarh University**

*Organized jointly by*



**Advanced Computing & Microelectronics Unit  
(ACMU)**

**Indian Statistical Institute (ISI)  
203 B. T. Road, Kolkata-700 108**

&



**Centre for Computer Studies  
Dibrugarh University  
Dibrugarh- 786 004, Assam**

**About Indian Statistical Institute, Kolkata**

The Indian Statistical Institute was founded by Professor P.C. Mahalanobis in Kolkata on 17th December, 1931. The institute gained the status of an Institution of National Importance by an act of the Indian Parliament in 1959. The Headquarters of ISI is located in the northern fringe of the metropolis of Kolkata. Additionally, there are 3 centres located in Chennai, Delhi and Bangalore and another one is coming up shortly in Tezpur. ISI offers degree programmes (Bachelor's, Master's, PhD), and hosts the International Statistical Education Centre (ISEC).

The Advanced Computing and Microelectronics Unit (ACMU) is one of the research units of the institute engaged in research in diverse areas of computer science. Some of the areas of current interest to the ACMU faculty are Parallel and Distributed Computing, Algorithms and Data Structures, Computational Geometry, VLSI Design, Logic Synthesis Testing and Verification, Low-Power Architecture, Hardware for Image Processing, Mobile Computing and Communications, Wireless and Sensor Networks, Biochips and Nano Electronics.

**About Dibrugarh University**

Dibrugarh University, a State University located in Dibrugarh in the state of Assam, was set up in 1965 under the provisions of the Dibrugarh University Act, 1965, enacted by the Assam Legislative Assembly. It is a teaching-cum-affiliating University. The Dibrugarh district is well known for its vast mineral resources (including oil, natural gas and coal), flora and fauna and many tea plantations. Center for Computer Studies, Dibrugarh University, came into existence in the year 2004. At present students can avail many courses like, MCA, BCA, PGDCA, B.Sc IT etc. at the Centre.

**To reach us**

*Nearest Airport: The nearest Airport is at Mohanbari, Dibrugarh. There are regular flight services between Dibrugarh, Kolkata and Guwahati.*

*Nearest Railway Station: Dibrugarh has two railway stations, one is in the town and other one is at Banipur, Dibrugarh. Both the stations are connected to all the major cities of India.*

*Direction: A journey by buses from Guwahati to Dibrugarh takes around 7 hours. Taxis and auto-rickshaws are also available from airport and railway station to the University Campus. The National Highway No. 37 passes through the University Campus.*

Please send the duly filled in Registration Form along with the necessary attachments  
by January 7, 2012 to:

Mr. Rizwan Rehman / Mr. Gunadeep Chetia  
Assistant Professor, Centre for Computer Studies  
Dibrugarh University, Dibrugarh,, Assam – 786004  
Email: [rizwanecs@gmail.com](mailto:rizwanecs@gmail.com), [gunadeep@gmail.com](mailto:gunadeep@gmail.com), [acmunortheast@gmail.com](mailto:acmunortheast@gmail.com)  
Phone: [09435058617](tel:09435058617), [09954453339](tel:09954453339)

Please note:

- E-mail submission of application is strongly encouraged. **Copy your e-mail to all the above addresses.**
- Have your application forwarded by your supervisor/HOD or Principal of your Institute, scan and then send it.
- An e-mail to this effect from the same authorities would also suffice.
- Write “**Application for ISI-DU Spring School**” on the top of the envelope or in subject line of email. If you send your application by post, ensure that it reaches by January 7, 2012.

Students can get their applications forwarded through their supervisor's e-mail address

**Objective:**

The school is aimed at motivating faculty members, research scholars, post-graduate and highly motivated undergraduate students belonging to universities, institutes, and colleges in the North-Eastern region of India, towards research in algorithms for wireless networks. The lectures will be delivered by several faculty members of the Advanced Computing and Microelectronics Unit, Indian Statistical Institute, Kolkata.

**Theme:**

The main theme of the lecture series will be on the following topics:

- Basics of wireless networks
- Basics of algorithms
- Various algorithms with applications to wireless networks
  - Graph algorithms
  - Geometric algorithms
  - Distributed algorithms
- Wireless sensor networks
  - Topology control
  - Coverage
  - Localization
- Mobile Ad hoc network (MANET)
- Cognitive radio networks
- Facility location problems in wireless networks
- Soft handover in 3G UMTS networks
- Range assignment in wireless networks

**Venue:**

Centre for Computer Studies, Dibrugarh University, Assam

**Duration:**

February 8-10, 2012.

**Participants:**

Faculty members, research scholars, post-graduate and highly motivated undergraduate students belonging to universities, institutes, and colleges in the North-Eastern region of India having interest in the related fields.

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

**Patrons**

Prof. K.K. Deka  
*Vice Chancellor, Dibrugarh University*

B. K. Roy  
*Director, ISI, Kolkata*

Prof. G.C. Hazarika  
*Director i/c, Centre for Computer Studies, Dibrugarh University*

**Program Director**

Bhargab B. Bhattacharya  
Head, ACMU, ISI, Kolkata

**Program Coordinators**

Sasthi C. Ghosh  
ACMU, ISI, Kolkata

Rizwan Rehman & Gunadeep Chetia  
Centre for Computer Studies, Dibrugarh University, Assam

**Local Organizer:**

Centre for Computer Studies, Dibrugarh University, Assam

**Speakers:**

Faculty of Advanced Computing & Microelectronics Unit  
(ACMU), Indian Statistical Institute, Kolkata

&

Faculty of Department of Mathematics,  
Indian Institute of Technology, Guwahati

**REGISTRATION FORM  
NORTH-EAST ISI-DU SPRING SCHOOL  
ON  
ALGORITHMS FOR WIRELESS NETWORKS**

**February 8 – 10, 2012  
Centre for Computer Studies  
Dibrugarh University**

**Name** : .....

**Designation** : .....

\*You should be a faculty member or Ph.D/Master's/undergraduate student in the North-Eastern region of India at the time of the workshop

**Institution** : .....

**Address** : .....

.....

.....

**Telephone** : .....

**Email** : .....

**Qualifications** : .....

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**Experience** : .....

.....

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**Travel support required:** *Yes / No*

**Accommodation required:** *Yes / No*

**Participated in any NE program sponsored by ISI**

**before:** *Yes / No*

**\*\* Attach the following in the application:**

(i) A copy of your bio-data and photograph.

(ii) A brief write-up about work done or studies undertaken related to the topic, if any.

Please photocopy the Registration Form for additional registrants.