

SERB - KARYASHALA
Hands-on Training and Workshop on
Computational Biology and
Bio-Medical Informatics
25th – 31st July 2022
(Physical Mode)



Jointly Organized by
Department of Computer Science and Engineering
&
Department of Electronics and Communication Engineering
National Institute of Technology Silchar, Assam



About the Institute

National Institute of Technology, Silchar is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College in Assam. In 2002, it was upgraded to the status of National Institute of Technology and was declared as Institute of National Importance under the National Institutes of Technology Act, 2007. NIT Silchar is a fully residential campus situated on the banks of river Barak and on a sprawling campus spread over 625 acres of land surrounded by scenic tea gardens on the outskirts of Silchar.

NIT Silchar has secured 48th rank in Engineering and 94th rank under Overall Category in NIRF 2021.

NIT Silchar is ranked at 5th in India and 200 in UI GreenMetric World University Rankings 2020, out of 922 Universities from 84 Countries. NIT Silchar has been ranked in the rank band 601-800 for both Engineering and Physical Sciences in the prestigious Times Higher Education World University Ranking in 2021.

COMMITTEE

Chief Patron

Prof. Sivaji Bandyopadhyay
Director, NIT Silchar

Patron

Dr. R. H. Laskar
HOD, ECE, NIT Silchar
Dr. Saroj Kumar Biswas
HOD, CSE, NIT Silchar

Coordinators

Dr. Naresh Babu Muppalaneni, NIT Silchar
Dr. Malaya Dutta Borah, NIT Silchar
Dr. Tripti Goel, NIT Silchar

Organizing Committee
Faculty of CSE & ECE

Sponsored by



About the Karyshala Scheme

KARYASHALA is an effort by the Science and Engineering Research Board (SERB), Government of India via Accelerate Vigyan to improve research productivity of promising PG and Ph.D. students from universities and colleges through high-end workshops on specific themes. This program aims to provide opportunities to acquire specialized research skills

About the Event

The main objective of the Training and workshop is to provide a discussion platform for PG and PhD students about the latest innovations in the foundations, theories, models and applications for multi-disciplinary research encompassing of Molecular Biology, Structural Biology, Structural Bioinformatics, Computer Aided Drug Design, medical image analysis, NGS data analysis etc., In recent years, Computational biology and medical informatics have been achieving tremendous unparallel growth making this field to be the most vibrant research area that could aid in the acceleration of the development and discovery of new drugs against combating diseases enhancing the livelihood

quality and life expectancy of the individuals.

Digital medical images are widely used for diagnostic purposes. Our goal is to disseminate the knowledge on algorithms for medical image analysis focusing on enhancement, segmentation, multi-modal registration and classification.

Tentative Resource Persons

- **Prof. Sumantra Dutta Roy**
IIT Delhi
- **Prof. Ruchika Malhotra**
Delhi Technological University
- **Dr. Tapan Kumar Gandhi**
IIT Delhi
- **Dr. Manish Bhatt**
IIT Guwahati
- **Dr. Bala Chakravathy N.**
NIT Rourkela
- **Dr. P. Manimaran**
University of Hyderabad
- **Dr. M.V. Satish Kumar**
Tezpur University
- **Dr. Alok Srivastava**
L V Prasad Eye Institute
- **Dr. Philge Philip**
Excelra Knowledge Solutions

Tentative Topics to be covered

- Machine Learning for Protein-Protein Interactions, Structure prediction
- Structural Bioinformatics
- Medical Image Processing and Analysis

- NGS Data Analysis
- Analysis on Medical Images like Retinal image, neuro image, X-ray etc.,
- Machine Learning for Bio-medical applications

Important Dates

Last date (Online Registration): 25.06.2022

Confirmation by E-mail: 27.06.2022

Event Dates: 25.07.2022 to 31.07.2022

Eligibility

This program is open to Post-Graduate Students and doctoral Students

Registration

Registration fee: Nil

Online Registration for the event through the below link:

<https://forms.gle/6P8SW4EVzg4bXL9K6>

No. of seats: 25

TA/DA will be provided as per the norms

Contact details

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National Institute of Technology Silchar, Assam

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REGISTRATION FORM

Name of the Participant: _____

Department: _____

Gender: _____

Pursuing Degree: MS/ M.Tech/ M.E / Ph.D.

Semester: _____

Organization: _____

Mobile No. _____

Email: _____

I agree to abide by the rules and the regulations governing the Workshop.

Signature of the Participant

Place:

Date:

Mr./Ms. _____ is a student of our Institution and is permitted to attend the programme.

Signature of the Head of Institution and Seal

Place:

Date: