

ORGANIZING TEAM

Patron and Advisor

Prof. Pramod Kumar Jain, Director, IIT (BHU)

Chairman

Prof. Rajiv Prakash, Dean (R&D), IIT (BHU)

Organizing Secretary

Prof. Prasun K. Roy & Prof. Neeraj Sharma
School of Bio-Medical Engineering
IIT (BHU) Varanasi

Organizing Committee

Prof. Vikash Dubey, Dr RK Singh, Dr NS Rajput Dr Shiru Sharma,
Prof K Sairam, Dr SK Rai, Dr Marshal, Dr P Paik, Dr S Mahto, Dr Jac Fredo

Data Analytics & Predictive Technology

National Mission on Cyber-Physical Systems

The National Mission on Cyber-Physical Systems (NM-ICPS) is a flagship program of Dept. of Science & Technology (DST), Ministry of Science & Technology (MoS&T), Govt. of India. ICPS is identified as a frontier emerging field to have a significant impact on health care, urban transportation, water distribution, energy, urban air quality, manufacturing and governance.

The activities envisioned under this Mission will give a impetus to Indian manufacturing via the invention of new products, services and the creation of skilled young human resource from technicians to, researchers and entrepreneurs.

The Interdisciplinary Data Analytics and Predictive Technologies (IDAPT) is regarded a most prominent fields for impacting socio-economic issues. At IIT (BHU) these 5 verticals are under IDAPT:

- (1) Health & Family Welfare
- (2) Power
- (3) Defence
- (4) Road Transport & Highways
- (5) Telecommunications,

They will catalyse the creation of skilled young researchers, engineers, and entrepreneurs, and becoming a key contributor to realize a vision of "Digital India", "Innovate in India", and "Make in India" and augment the U.N. Global Goals: "Good Health & Wellbeing" and "Industry, Innovation, Infrastructure".

A Selection of Speakers



Prof. Marcus Kaiser,
Professor of Neuroinformatics,
Sir Peter Mansfield Imaging Centre,
University of Nottingham, Nottingham, U. K.



Prof. Wojtek Goscinski
Professor, Centre of Excellence for
Integrated Brain Function;
Monash University, Melbourne, Australia



Prof. Senthil Kumaran
Professor, MRI Centre,
A.I.I.M.S.,
New Delhi



Prof. Madhusudhan KS
Professor, Deptt. of Radio-Diagnosis,
A.I.I.M.S.,
New Delhi



Prof. John P. John
Professor, Centre for Brain Mapping,
National Institute of Mental Health &
Neuroscience (NIMHANS), Bangalore



Prof. Baljinder Singh,
Professor, Deptt. of Nuclear Medicine,
Postgraduate Instt. of Medical Education &
Research (PGIMER), Chandigarh



Prof. Ashish Verma,
Head, Deptt, of Radiology & Imaging,
Institute of Medical Sciences Hospital
B.H.U., Varanasi.



Prof. Ashutosh Mukherji,
Head, Deptt, of Radiation Oncology,
Tata Cancer Centre
Varanasi.



Dr. Amit Mehndiratta,
Associate Professor, Centre of Bio-Medical
Engineering,
I.I.T., New Delhi



Dr. Krishna Miyapuram
Associate Professor, Centre for Cognitive
Science,
I.I.T., Gandhinagar

Advances in Medical Imaging

Online Short-term Course

March 15-19, 2021

At IIT (BHU), Varanasi



Supported by

**TECHNOLOGICAL INNOVATION HUB
ON
INTER-DISCIPLINARY DATA ANALYTICS
&
PREDICTIVE TECHNOLOGY
(IDAPT)**

Sponsored by

**Dept. of Science & Technology,
Ministry of Science & Technology,
Govt. of India**



THEME OF SHORT-TERM COURSE

The first interface of the public with healthcare system is diagnosis, in which Medical Imaging, being 3D and non-invasive, is pre-eminent. Moreover, imaging facility (hardware or software) forms the most cost-intensive field of medical devices, and data and imaging analysis is a critical part.

Thus, the urgent need of Indian expertise is to have know-how here so that the national scenario can become self-sufficient broadly. This week-long intensive course will include lectures and lab/demo sessions, including hand-on training.

Topics shall cover current advancements in higher end techniques and analysis, as MRI, fMRI, EEG & PET imaging, with Analytics, Radiomics and Predictive aspects. The event will provide an excellent platform to keep up with state-of-art methodologies of Structural, Functional and Biochemical Imaging.

We cordially invite you to register for the event.

Indian Institute of Technology (BHU)

Having celebrated 100 years of Service to the Nation, the Indian Institute of Technology (BHU) Varanasi is an Institute of National Importance, created by an Act of the Parliament, through the Institutes of Technology (Amendment) Act, 2012. Previously, IIT (BHU) was known as IT, BHU, and was founded in 1919.

IIT (BHU) has 14 departments, 3 inter-disciplinary schools, a number of Centres of Excellence, the high-end Central Instrumentation Facility, and the first supercomputer designed and built under National Supercomputing Mission, Govt. of India

School of Bio-Medical Engineering (SBME)

UGC has established the School in 5th Five Year Plan in 1978. SBME is involved in Teaching, Research, Innovation and Entrepreneurship in cooperation with Instt. of Medical Sciences Hospital (BHU) and with other departments of IIT(BHU).

SBME offers Integrated Dual Degree (BTech+MTech) program, Master of Technology (M.Tech.), PhD, Post-doc & Visiting student opportunity. The School has active research areas in various areas of Bio-Engineering, Biomedical Technology, Medical Device Design, Clinical Computing, and Diagnostic/Therapeutic Imaging.

ELIGIBILITY

The conference is open mainly to faculty members, scientists, medical/health-care professionals, engineers, computer/data experts, consultants, mathematicians, industry personnel, psychologists, postdoc scholars, or students of Bachelor/Master/PhD or MBBS//PG courses, etc.

REGISTRATION FEE

For students:

UG / PG students (incl. PhD students): Rs. 500
(refunded after the course)

For faculties, scientists and post docs:

Rs. 1000/- (non-refundable)
Industry: 4000/- (non-refundable)

Payment may be made by one of the following

(i) Demand Draft In favor of I-DAPT-HUB-FOUNDATION
Payable at SBI, IIT(BHU) Varanasi.

(ii) For online payment

Branch: SBI, IIT(BHU) Varanasi
IFSC Code: SBIN0011445
Name: I-DAPT-HUB-FOUNDATION
Account No: 39818711510

Note: Mention payment details in the registration form

IMPORTANT DATES

Opening of Registration: 22 February, 2021

Last Date of Registration: 10 March 2021

Coordination

Prof. Prasun Roy & Prof. Neeraj Sharma
School of Bio-Medical Engineering,
Indian Institute of Technology (BHU), Varanasi.
Email: pkroy.bme@iitbhu.ac.in; neeraj.bme@iitbhu.ac.in

Note: e-Certificates will be provided

Advances in Medical Imaging

March 15-19, 2021

Registration Form

1. Name (in block letters):
2. Designation/Occupation:
3. Organization:
4. Address for communication with mobile number and e-mail:

Pin: Mobile. No:
Fax no: E-mail:

5. Academic Qualifications:
6. How this participation is useful for you

7. Payment details (amt., date, payment receipt no. Attach scanned copy of DD/Online payment)

Place: Signature of the applicant
Date:

Please Note: Kindly send the soft copy of the form to

divyanshus.ms@iitbhu.ac.in with cc.to pratikpurohit.rs.bme17@iitbhu.ac.in

Photocopy of the form may also be used.

Students should also send a scanned copy of valid current institutional ID card.

The decision about the final selection is by course conveners/organizing committee.

Participants selected will be informed by 12 March 2021