

Two Weeks
Self Financed Workshop

On

Multimedia Processing and its Security (WMPS - 2017)

“A view through eyes of researchers”

Date: 29th May, 2017 – 09th June, 2017



Organized by

Department of Computer Science & Engineering
Motilal Nehru National Institute of Technology
Allahabad
Allahabad-211004, Uttar Pradesh, India.

THE INSTITUTE

Motilal Nehru National Institute of Technology (MNNIT) Allahabad is one of the premier National Institute of Technology (NIT) in India. It is committed to achieve quality and excellence in academic pursuits. Established in 1961, as a Regional Engineering College, a joint enterprise of Government of India (GOI) and Government of Uttar Pradesh, the institute was transformed into NIT on June 26, 2002. With the enactment of NIT Act-2007 (29 to 2007), the Institute has been granted the status of institution of national importance w.e.f. August 15, 2007.

The Institute now offers various undergraduate and postgraduate courses such as B.Tech., M.Tech., MCA, MBA, M.Sc., M.S.W and Ph.D. degree. It has been recognized by GOI as one of the Quality Improvement Programme (QIP) centres for the M.Tech. and Ph.D. Degrees. Also, it is a lead Institution under World Bank funded GOI Project on Technical Education Quality Improvement Programme (TEQIP) (2002-2007).

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

For the first time in India under graduate course in Computer Science and Engineering was offered in 1977 under Electrical Engineering Department with a modest strength of 10 students.

The Department of Computer Science & Engineering offers courses leading to a Bachelor of Technology in Computer Science & Engineering, and Information Technology. It also offers a Master of Technology in Computer Science & Engineering, Master of Technology in Software Engineering, Master of Technology in Information Security, and Master of Computer Application (M.C.A.). Further, the department also enrolls candidates for Ph.D.

ALLAHABAD

The city of Allahabad is among the largest cities of Uttar Pradesh. It is situated at the confluence of three rivers- Ganga, Yamuna and the mythological Saraswati. The sacred meeting point is known as Sangam. The city better known as PRAYAG has many governmental institutions which include MNNIT Allahabad, High Court of UP, Allahabad University & tourist places like Sangam, Anand Bhawan, Narayan Ashram etc. MNNIT Allahabad is one of the premier institutes of the city offering Quality Technical Education.

COMMITTEE

ORGANIZING COMMITTEE

Patron

Prof. Rajiv Tripathi, Director, MNNIT, Allahabad

Chairperson

Prof. Neeraj Tyagi, Head, Department of Computer Science and Engineering, MNNIT, Allahabad

Convener

Prof. Suneeta Agarwal, Department of Computer Science and Engineering, MNNIT, Allahabad

Course Coordinator

Dr. Rajitha B., C.S.E.D, MNNIT, Allahabad

Faculty Coordinators

- Dr. Ranvijay Singh, C.S.E.D, MNNIT, Allahabad
- Dr. Shashank Srivastava, C.S.E.D, MNNIT, Allahabad

Student Coordinators

1. Mr. Shambhu Shankar Bharti, C.S.E.D, MNNIT
2. Mr. Manish Gupta, C.S.E.D, MNNIT
3. Mr. Sanjeev Kumar, C.S.E.D, MNNIT
4. Ms. Divya Srivastava, C.S.E.D, MNNIT

ADVISORY COMMITTEE

- Prof. M. M. Gore, Department of C.S.E., MNNIT, Allahabad
- Prof. R.S.Yadav, Department of C.S.E., MNNIT, Allahabad
- Prof. A. K. Tripathi, IIT BHU
- Prof. K. V. Arya, I.I.I.T.M., Gwalior
- Dr. Ravi Shankar, IIT BHU
- Prof. Sanjoy Kr. Saha, Jadavpur University
- Dr. Chintan Mandal, Department of C.S.E, Jadavpur University
- Dr. Sushila Kamble, Department of C.S.E, ISM Dhanbad
- Dr. Rajesh Prasad, American University of Nigeria
- Dr. Vikas Maheshkar, Department of C.S.E, NSIT New Delhi
- Dr. Ashutosh Gupta, RTOU Allahabad
- Dr. Sarsij Tripathi, Department of C.S.E, NIT Raipur

SCOPE OF COURSE

This course covers introductory and advanced knowledge of Image, Audio and Video Processing along with their security features. The recent growth of multimedia systems has increased the need for the protection of digital media. This is particularly important for the protection and enforcement of intellectual property rights. Digital media includes text, digital audio, images, video and software. Many approaches are available for protecting digital data; these include encryption, authentication and time stamping. This workshop also imparts the practical knowledge through advanced software tools for simulating the research challenges.

Considering the current research requirements, this course aims at Giving a proper knowledge on simulation software for solving current research challenges in image, audio and video domain using MATLAB and OpenCV.

COURSE CONTENTS

The major contents of the course will cover the following.

- Acquisition and Representation of Multimedia Signals
- Audio and Video Signal Processing
- Feature Extraction from Audio, Image and Video.
- Audio and Video Quality Assessment
- Image Segmentation
- Image/Video Annotation, Search and Retrieval
- Multimedia Signal De-Noiseing and Enhancement
- Video Segmentation, Tracking and Summarization
- Multimedia Security
- Secret sharing in Multimedia
- Steganography and watermarking in Multimedia

COURSE DURATION:

Two Weeks (29th May, 2017 – 09th June, 2017)

RESOURCE PERSONS

The resource persons for the program shall include experts from reputed academic/research organizations and industry, and faculty from MNNIT Allahabad and other engineering colleges of repute.

WHO SHOULD ATTEND

This course provides a forum for research students, faculties and R&D scientist/ engineers working in the related areas to enhance their background and get exposed to intricate research aspects. This is a general workshop that can also be attended by all UG/PG students, faculties and researchers.

REGISTRATION

To register for this course, the applicants will have to pay fees in advance via Demand Draft or NEFT. The details of the fees are as follows:

| Category | Fees (Rs.) |
|------------------------------|------------|
| Industry Personnel / Faculty | 6000/- |
| Research Scholars/Students | 4000/- |

Details of Demand Draft (DD)

The Demand Draft (DD) should be drawn in favour of WMPS-2017

payable at Allahabad.

Details of NEFT

Name of the Bank Account: WMPS-2017

Bank Account Number: 718400301000253

Bank Name: Vijaya Bank

Bank Branch: MNNIT Allahabad

NEFT/IFSC Code of Branch: VIJB0007184

Account Type: Current

Applicants should also send a proof of their identity and designation for claiming the category.

* The participants have to bear their own travelling and accommodation expenses.

** Accommodation may be provided on *first come first serve* basis to the participants, based on the availability of rooms in the institute Guest house and Hostels.

ADDRESS FOR COMMUNICATION

Complete registration form accompanied by the DD (or NEFT details) should reach to the course coordinator on or before **23rd** May, 2017. The applicants are also requested to e-mail a scanned copy of the registration form with payment details.

The contact details are:

Dr. Rajitha B.

Course Coordinator, WMPS-2017

Department of Computer Science and Engineering

Motilal Nehru National Institute of Technology Allahabad

Allahabad-211004. E-mail: 2017wmps@gmail.com

For any further information / assistance you may contact following student co-ordinators:

Mr. Shambhu Shankar- +919359149633(Mob),

shambhu4u08@gmail.com

Mr. Manish Gupta – +919457815321(mob),

manishymca2007@gmail.com

Mr. Sanjeev Kumar – +919161292060(mob),

skgcp86@gmail.com

Note: Please write the name of the course (WMPS-2017) on top of the envelope.

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REGISTRATION FORM

Name (in Block Letters) _____

Date of Birth _____ Sex: Male/Female

Highest Qualification: _____

Organization: _____

Designation (Faculty / Research Scholar / Student /
Industry Personnel)

Experience: ____ Years ____ Months

Correspondence Address:

City: _____ Pincode: _____

Mobile No: _____

E-mail : _____

Accommodation Required: Yes No

PAYMENT DETAILS : DD NEFT

Draft No. _____ Date: _____

Issuing Bank and Branch (with code) _____

Amount: _____ Drawn on: _____

(In favour of "WMPS-2017" payable at 'Allahabad')

For NEFT: Transaction ID _____ Amount _____ Date: _____

Signature of Applicant

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Mobile No : _____ E-mail : _____
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Amount: _____ Date: _____

Signature of Applicant