PMMMNMTT Scheme

MHRD Govt. of India

A Six Day Faculty Development Programme on

Big Image Data Processing Using Machine Learning Algorithms (BIDPUMLA)

11th-16th December, 2017

Call for Registration and Participation

Coordinators

Dr. U. S. N. Raju (CSE)
Dr. K. V. Kadambari (CSE)
Prof. D. V. S. S. Siva Sarma (TLC)

Organized by the
Department of Computer Sci. and Engg.
in association with
Teaching-Learning Centre
National Institute of Technology
Warangal – 506 004
Telangana state, india

Background of the Programme:

The digital content is generated with exponential speed due to scanners, web cameras, digital cameras, mobile phone cameras, video cameras and digital medical imaging devices etc. Processing such huge amounts of data generated in less time is a challenging task. Traditional Image Processing/Video Processing methods fail to process these data because of insufficient memory and computational power. In order to process such data high performance computing capability provided by Big Image Data Processing algorithms are more appropriate. In this context this workshop is proposed to discuss Big Image and Video technologies, Processing and Analytics, which can be used in different domains.

Objectives of the Programme:

- To enable the participants to learn and conceptualize Big Image Data Processing
- To empower the participants with to use the latest technologies like SPARK, Hadoop and knowledge of their integration with Matlab (Hands-On).
- To make the participants learn how machine learning algorithms are used to analyze Big Image Data sets.
- To provide the participants with Hands-On experience in using machine learning tools to classify, predict and optimize the images.
- To encourage the participants to offer a course that integrates Big Image Data processing and Machine Learning.
- To enable the participants to learn new methods and practices in Teaching and Learning.

Topics of the Programme:

- Overview of Big Image Data Processing.
- Installation of Hadoop, SPARK clusters and integrating them with MATLAB for text and Image Processing .
- CBIR, Video Processing by using clusters.
- Introduction to Machine Learning Concepts
- Processing Big Image Data
- Applying and implementing Machine Learning algorithms like Neural Nets, Decision trees on Big Image datasets.
- Applying concepts of Deep Learning on classification on Big images.
- New methods of Teaching and Learning

Resource Persons:

Faculty of the CSE & ECE departments, who have the expertise in these areas will be the core faculty of the workshop. Eminent Faculty from IITs, other premier institutes and Software Industry in the country are the external resource persons for this programme.

Registration is open to:

- Faculty members working in Engineering, Science and Technical institutions.
- Faculty from Universities, Degree and Post- Graduate Colleges.
- Research Scholars aspiring for faculty positions.

How to Apply:

Eligible candidates may apply by submitting the scanned copy of the filled-in registration form (attached with this mail/ brochure) by Email to **usnraju@nitw.ac.in** on or before **7th November, 2017.**

Selection and Intimation:

As the programme is conducted in a workshop mode with *hands-on sessions*, the number of participants in the workshop is limited to **40**. The selection will be on first-cum-first served basis among eligible applicants. The selected applicant will be informed about his / her selection through Email on before **14th November 2017**.

Payment of Registration Fee:

After receiving the intimation about the selection, the applicant has to send the required registration fees as per the details shown in the Table on or before 13th November 2017. The mode of payment of registration fee is given under the heading "Bank Details".

Confirmation of Participation:

On receipt of the proof of payment of registration fee **in the form of scanned copy of the DD / Proof of remittance** (with transaction number if it is paid through online transaction), the applicants will be sent confirmation of their participation through Email immediately.

Accommodation:

Accommodation for outstation participants will be provided on request in the Institute Visitors' Block or International Students' Hostel.

Registration fee:

Category of Participants	Local participants (with working lunch)	Residential participants (with accommodation, breakfast, lunch & dinner)
Faculty	**₹750**	**₹1,500**
Research Scholars	**₹375**	**₹750**

Note: Registration fee for Faculty and Research Scholars of SC/ST category is **half of the amounts** mentioned above as applicable.

Bank Details:

Registration fee may be sent in the form of a DD or remitted through On-line / NEFT to the Bank Account given below. Local participants may also pay the registration fee in cash to the Coordinator in the Department of Computer Science and Engineering.

Account Name	DIRECTOR, NIT WARANGAL
Account Number	52109375198
Bank	State Bank of India
Branch	REC Warangal (NIT Campus)
Branch Code	20149
IFSC code	SBIN0020149

Brief profile of the Department of Computer Science and Engineering:

The Department of Computer Science and Engineering (CSE) offers B.Tech. course in CSE, M.Tech courses in CSE, Information Security (IS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. The Department conducts various sponsored programmes and workshops throughout the year.

About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate and 31 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and laboratories.

Teaching-Learning Centre of NIT Warangal:

The Teaching-Learning Centre (TLC) is established at NIT Warangal with grants from the MHRD, GOI under the scheme, 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching' (PMMMNMTT). Many senior and young faculty members across various departments of the Institute are associated with this center as members of the Core-Team. One of the important objectives of the center is to conduct training programs for Aspiring, Newly Inducted and In-Service faculty in Science and Engineering disciplines. Other activities of the TLC include preparation of e-learning materials, offering courses on-line, curriculum development, carrying out research in pedagogy and integrating ICT into teaching-learning process.

About Warangal:

Warangal is the second largest city of the new state of Telangana. It is situated at a distance of 140 km from the state capital Hyderabad (Nearest Airport). It is well connected by Rail (Kazipet Junction is two km away and Warangal Station is 12 km away) and by Road (NH 202).Warangal is renowned for its rich historical and cultural heritage. It was the seat of erstwhile Kakatiya dynasty. It is a seat of tourist attractions with a number of historical monuments like Thousand Pillars Temple, Warangal Fort, Bhadrakali Temple, Ramappa Temple and Laknavaram Lake located in a radius of 30 kms.

For any queries regarding this Programme, please contact any of the following Coordinators

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Sponsored by MHRD, Govt. of India under PMMMNMTT Scheme

REGISTRATION FORM

Name :_____

Date of Birth :_____

Place of Birth: Village/Town/City:_____ Tick as applicable (Rural / Urban)

District_____ State: _____

Gender (Put a √ Mark) : ☐ Male ☐ Female

Category (Tick as applicable) : **Open / OBC / SC / ST / PWD**

Qualification :_____

Designation :_____

Organization :_____

No. of Years of Teaching Experience:_____

Address for Correspondence :_____

_____

_____

Mobile(s): _____

Email(s)_____

Details of Remitting Registration Fee: (i) Amount in Rs. _____

(ii) Name of the Bank Through which Remitted/DD Taken: _____

(iii) On-line Transaction No./ DD No: _____ (iv) Date:_____

Accommodation (Put a √ Mark) : ☐ Required ☐ Not Required

Declaration by the Applicant

If selected, I agree to abide by the rules and regulations of the workshop / training programme and shall attend all the sessions.

Date: Signature of the Applicant

Recommended and Forwarded

Office Seal

Signature of the Head of the Department/ Institution