Manipal Academy of Higher Education (MAHE): MAHE is synonymous with excellence in higher education. Over 28,000 students from 57 different nations live, learn and play in the sprawling University town, nestled on a plateau in Karnataka’s Udupi district. It also has nearly 2500 faculty and almost 10000 other support and service staff, who cater to the various professional institutions in health sciences, engineering, management, communication and humanities which dot the Wi-Fi-enabled campus. The University has off-campuses in Mangalore and Bangalore, and off-shore campuses in Dubai (UAE) and Melaka (Malaysia). Every institute has world-class facilities and pedagogy, which are constantly reviewed and upgraded to reflect the latest trends and developments in higher education. In Manipal, these include educational facilities like the Simulation Lab, an Innovation Centre, one of Asia’s largest health sciences libraries, one of the world’s best anatomy museums, a Business Incubation Centre and various other centers of excellence. Academic and Research collaborations with several universities in the US, UK, Australia and other countries ensure that students get international exposure and expertise. In 2018 MAHE was awarded the status of the Institute of Eminence from MHRD, Govt. of India.

Manipal Institute of Technology (MIT): MIT established in 1957, is reckoned for its academic excellence in technical education. It offers Bachelor’s, Master’s, and Ph.D. programs in Engineering, Science & Humanities. It has collaborations with a large number of foreign universities. As per NIRF ranking, MIT stands at the top 1% among the engineering colleges in India.

Dept. of Computer Science and Engineering (CSE): Dept. of CSE was established in the year 1985. Over the years, the department has developed to become a center of excellence, providing in-depth technical knowledge and opportunities for innovation and research with excellent infrastructure and committed faculty members. The department has tie-up with various industries and offers courses in collaboration with them. The department has a strong research interest in diverse areas of Computer Science and offers a Ph.D. Program. Great emphasis is given on the emerging, interdisciplinary and cutting-edge areas of research besides core domain in the department. The focus areas of research are High-Performance Computing Systems, Computer Vision, Software Engineering, Knowledge Engineering, Computer Networks & Security as well as Machine Learning.
ABOUT THE STTP

The main aim of the Short Term Training Program (STTP) is to attract the faculty and industry personnel towards the use of machine learning and deep learning-based systems for medical applications.

Deep learning, a subfield of machine learning, has seen a dramatic resurgence in the recent past, largely driven by increases in computational power and the availability of massive new datasets. The field has witnessed striking advances in the ability of machines to understand and manipulate data, including images, and speech. Healthcare stands to benefit immensely from deep learning because of the sheer volume of data being generated as well as the increasing proliferation of medical devices and digital record systems. Deep-learning systems could aid physicians by offering second opinions and flagging concerning areas in images.

The STTP facilitates a comprehensive discussion on the use of technology and research dedicated to applications of machine learning and deep learning in the medical domain. It also facilitates gaining of insight into several important topics associated with Machine Learning and deep learning, such as regression, classification and clustering models for medical applications, decision support systems, etc. Understanding the genetics of disease allows clinicians to recommend treatments and provide more accurate diagnoses, distinguish between glaucomic and non-glaucomic image patterns for diagnostic decisions, etc.

OBJECTIVES

- To introduce the concepts of Medical Image Processing.
- To familiarize the participants with Machine Learning, Artificial Neural Networks and Deep Learning.
- To enable the participants to use these concepts in the context of medical domain.
- To provide hands-on experience of associated tools and techniques.

RESOURCE PERSONS

Experienced faculty members and experts from IITs, IIITs, NITs, Industries, and other premier institutions will be delivering the lectures and practical sessions.

EXPECTED OUTCOME FROM THE COURSE

- To enrich the faculty with emerging technologies such as machine learning and deep learning for problem-solving in medical field.
- To facilitate participants to carry out research and register for Ph.D. and publish high quality research papers in reputed journals.
- To reduce the gap between academia and industry as well as enhance placement opportunities for students.
ELIGIBILITY

Faculty from AICTE approved engineering colleges/universities with teaching positions in Computer Science / Information Technology / Computer Applications / Biomedical Engineering / Electronics and Communication and other related engineering disciplines are eligible. Interested practicing engineers from industries may also apply. The number of seats is limited to 40 and selection is based on a first come first serve basis.

REGISTRATION

Please visit the below-mentioned link and complete the online registration by selecting AICTE_STTP_MLDL2020  https://forms.gle/zA8aXj9q4RybT4WP9
No registration fees. Free accommodation on prior request, TA to outstation participants as per AICTE norms.

- The last date for receipt of the registration form is 30th April 2020.
- The selected participants will be intimated through mail latest by 10th May 2020.
- Caution Deposit: Selected participant must send the Demand Draft (DD) for INR 1500/- in favor of MAHE Conference/Workshop. The DD will be returned to all the participants along with the Participation Certificate.
- Participation certificates will be provided for the participants with 100% attendance.

PATRONS
Dr. Ramdas M Pai, Chancellor, MAHE
Dr. H. S Ballal, Pro-Chancellor, MAHE
Dr. H. Vinod Bhat, Vice-Chancellor, MAHE
Dr. Narayana Sabhahit, Registrar, MAHE
Dr. D. Srikanth Rao, Director, MIT Manipal
Dr. B H V Pai, Joint Director, MIT Manipal
Dr. S. N Bhat, Associate Director, (FD & W), MIT, Manipal.

CHAIRPERSONS
Dr. Ashalatha Nayak, Head, Dept. of CSE, MIT, Manipal
Dr. Balachandra, Head, Dept. of ICT, MIT, Manipal.

COORDINATOR
Dr. Prema K. V, Professor, Dept. of CSE, MIT, Manipal.

CO-CORDINATORS
Prof. Tanuja Shailesh, Prof. Archana Praveen Kumar, & Prof. Rajashree Krishna, Dept. of CSE, MIT, Manipal.
ADDRESS FOR CORRESPONDENCE

Dr. Prema K V
Coordinator – AICTE_STTP_MLDL2020
Dept. of Computer Science and Engineering
Manipal Institute of Technology, Manipal – 576 104.
Mobile: 9902503895
Email: sttpjuly6to11@gmail.com