Online Karyashala on "**Social Robotics and AI**"
(June 28- July 04, 2021)

Funded by
Science and Engineering Research Board (SERB), Department of Science and
Technology, Government of India Under Accelerate Vigyan Scheme

Applications are invited from postgraduate students to participate in the Karyashala on Social Robotics and AI organized by PDPM IIITDM Jabalpur under Accelerate Vigyan scheme of the SERB, DST, Govt. of India.

Karyashala Objectives:
Today the robotics is moving to help the societal needs. Some example includes how robotics can play its role in recent pandemic (CoVID). Further, robotics can help the persons with physical disability or elderly persons in their daily needs. This Karyashala will focus on providing basic knowledge to the participants on
- Robotics fundamentals
- AI and its role in Robotics
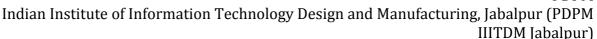- Role of robotics for societal uses

The karyashala aims to provide demonstration on design and fabrication of robots, their programming to the participants.

Karyashala Contents:
- Introduction to Robotics
- Robot Kinematics
- Wheeled Mobile Robots
- Artificial Intelligence and Machine Learning
- Deep Learning for Computer Vision
- Path and Trajectory Planning
- Reinforcement Learning
- Robots in healthcare
- Rehabilitation Robotics

Speakers (Tentative):
- Prof. Ashish Dutta, Professor, IIT Kanpur
- Prof. Aparajita Ojha, Professor, PDPM IIITDM Jabalpur
- Prof. Domineco Prattichizzo, University of Siena, Italy
- Dr. Madan Mohan Dabbeeru,Rakuten India
- Prof. T. Matsumaru, Waseda University, Japan
- Prof. Tomohiro Shibata, Kyushu University, japan
- Prof. Vijay Kumar Gupta, Professor, PDPM IIITDM Jabalpur
- Prof. V.M. Gadre, Professor, IIT Bombay
- Dr. Shantha Kumar Mohan, IIT Palakkad

Who can attend:
Karyashala is open to postgraduate students from all Institutes, Colleges and Universities in India; preference will be given to the students having interest towards Robotics. Total numbers of seats are limited to 25.

Course Fee Details:
A nominal fee of Rs. 500/- will be charged from each student selected for participation in the karyashala.

How to apply:
Interested students can fill the online google form by latest by June 18, 2021.
https://docs.google.com/forms/d/1PdKisVEBSGTIUtYogT4qTEM4MoS_lF0uFEZnf3nQSx0/

Important Dates:
Registration opens: June 11, 2021
Last date for application: June 18, 2021
Display of shortlisted candidates: June 21, 2021
Last date for deposition of workshop fees: June 23, 2021
Workshop dates: June 28-July 04, 2021

Contact Details
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