

## Human-Centered Robotics

The aim of Human-Centered Robotics (HCR) is to develop theory, technology, and tangible solutions for robots to co-exist, and co-operate with humans. HCR is a multifaceted and challenging domain which entails robot operation in human environments and close interaction with non-professional users. Development of cutting edge technology to facilitate manufacturing of intelligent, low-cost, interactive robots is possibly the next big thing that is going to hit the engineering, technology development, and research community. The resultant robots will add value to the day to day life of human society and improve their work capability.

## About Workshop

Robots find widespread applications in industries like medical, agriculture, defense, transportation, surveillance, etc. With the increase in applications of robots, the field of robotics has taken greater strides in the past two decades. One specific area, which has gained the attention of the community, is Human-Centered Robotics. The workshop will emphasize on bringing forward various problems and research opportunities in the area. It will focus on the following sub-areas of Human-Centered Robotics:

1. Robotic rehabilitation,
2. Medical robotics,
3. Robotics simulators for training of human,
4. Assistive Robotics,
5. Robot navigation in human environment,
6. Robot learning from human,
7. Safe robots.

NWHCR'18 will have talks by eminent speakers from academia, industry, and R&D organizations. It is also aimed to have a poster session, which will provide an opportunity to the participant to get valuable feedback from the experts. NWHCR'18 would be concluded with a panel discussion on opportunities in Human-Centered Robotics by experts.

## Speakers/ Experts from

1. AIIMS Jodhpur
2. BITS Mesra
3. DRDO
4. IIIT Hyderabad
5. IIT Delhi
6. IIT Gandhinagar
7. IIT Madras
8. TCS Innovation Labs

## Registration

For registration please visit the link below:

<https://nwhcr.weebly.com>

## Fee

Type of Registration	Non-TRS Member	TRS Member
Industry/ Research Organizations	Rs. 2000	Rs. 1200
Academia	Rs. 1500	Rs. 900
Students	Rs. 500	Rs. 300

- Workshop registration fee include the registration packet, access to technical sessions, tea breaks, lunch on both days, and workshop dinner on day One.
- Accommodation may be provided within the campus or nearby places on chargeable basis.

## Organising Chair

Dr. Suril V. Shah

Dr. Chiranjoy Chattopadhyay

## Contact

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# National Workshop on Human-Centered Robotics (NWHCR)

17<sup>th</sup>-18<sup>th</sup> March 2018

Organised By

**Indian Institute of Technology (IIT) Jodhpur**

In Collaboration with

**The Robotics Society (TRS)**

Hosted By

**Department of Mechanical Engineering, IIT Jodhpur**