

QIP Sponsored Short Term Course On Visual Cognition

October
04 – 09,
2021

Through
Online
Mode



Patron

Prof. S. S. Pattnaik

Director, NITTTR Chandigarh

Coordinators

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ECE Department, NITTTR Chandigarh

Organized by

Electronics and Communication Engineering Department

National Institute of Technical Teachers Training & Research, Chandigarh, India

in association with

All India Council for Technical Education, New Delhi



STC Theme:

This course treats vision as information processing with a focus on computational challenges in artificial and biological visual systems. Visual cognition is concerned with combining visual data with prior knowledge to construct high-level representations and make unconscious decisions about scene content. Cognitive vision refers to goal-oriented computer vision systems that exhibit adaptive and anticipatory behaviour. In contrast, visual cognition is concerned with how the human visual system makes inferences about the large-scale composition of a visual scene using partial information. Particularly emphasis will be on the underspecified nature of several visual problems as well as how artificial and biological systems attempt to solve those problems. The programme is being organized (through online mode) to impart knowledge to technical teachers and research scholars about recent advancements and applications of Visual Cognition.



Major Topics to be Covered:

- Philosophy of Cognitive Science
- Cognitive Processes and Cognitive Ergonomics
- Cognitive Neuropsychology
- Cognitive Psychology and Biological Psychology
- Neurocognition and Neuroscience of Language Comprehension
- Emotion/Empathy and Moral Cognition
- Computational Linguistics
- Social Computing and Social Network Analysis
- Pattern Recognition and Multilingual Text Recognition
- Nature Inspired Algorithms
- Problem of Representation
- Encoding of 3-D Objects
- Efficient Recognition of 3-D Objects from 2-D Images.
- Performance of Artificial Computational Systems
- Education along with Cognitive Psychology

About National Institute Of Technical Teachers Training And Research, Chandigarh

National Institute of Technical Teachers Training and Research (Formerly TTTI), Chandigarh is one of the four national institutes established by the Government of India in 1967 for the development of technical education in the country. The institute offers a wide range of Short Term Courses for faculty and staff of technical institutions. The institute also offers Ph.D. programmes under QIP (Engg.), QIP(Poly) as well as direct admission schemes. Also, Master's Degree programmes in eight disciplines are offered on regular/modular basis. The institute is situated in a well-developed campus in Sector 26, Chandigarh. The institute is about 12 km from airport, 5 km from Railway Station, 5 km from Inter State Bus Terminus, Sector 17 & 8 km from Inter State Bus Terminus, Sector 43.



Registration Information:

The faculty members of Engineering/polytechnic colleges and PhD/ME/M Tech scholars are eligible to register, however, priority shall be given to the faculty members. Kindly visit the following link for registration. **There is no registration fee.**

Registration Link: <https://forms.gle/yvuNiKmiFSGTjLRQ8>

Tentative Expert Speakers:

1. Dr Millie Pant, IIT Roorkee
2. Dr. Sumitava Mukherjee, IIT Delhi
3. Dr. Narayanan Srinivasan, IIT, Kanpur
4. Dr. Ark Verma, IIT Kanpur
5. Dr. Devpriya Kumar, IIT Kanpur
6. Dr. Rashmi Gupta, IIT Bombay
7. Dr. Rajakishore Nath, IIT Bombay
8. Dr. Sanjram P. K., IIT Indore
9. Dr. Kamal Kumar Choudhary, IIT Ropar
10. Dr. Varun Dutt, IIT Mandi
11. Dr. Amitash Ojha, IIT Jammu
12. Dr Azizuddin Khan, IIT Bombay

Programme Coordinators & Contact Details:

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