

Registration Form

SERB sponsored Workshop on
**MACHINE LEARNING TECHNIQUES FOR
SIGNAL & IMAGE PROCESSING APPLICATIONS**
(Through Virtual Mode)
7th – 11th February 2022

Name: _____

Designation: _____

(Important Note: Designation will be mentioned in participation e-certificate)

Organization: _____

Address for correspondence: _____

E-mail: _____

Mobile No: _____

Particulars of Registration Fee:

Bank UTR Transaction No.: _____ **Date:** _____

Amount: _____

Date: _____ **Signature:** _____
Place: _____

The details of the account is mentioned below:

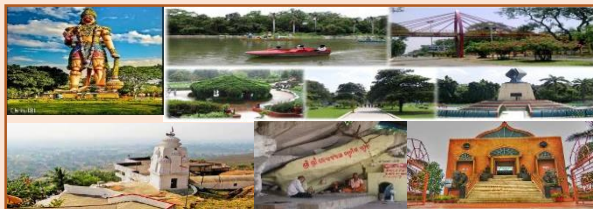
Name – CONTINUING EDUCATION NIT ROURKELA

Acct. no. – 10138951784

Bank – State Bank of India

Branch – NIT Campus

IFS Code – SBIN0002109



About the Department:

The mission of the Department of Electronics and Communication Engineering, NIT Rourkela is to advance and spread knowledge in the area of electronics, communication, instrumentation, signal processing and very large scale integration leading to creation of wealth and welfare of humanity. Vision of this department is to become a nationally acclaimed department of higher learning that will serve as a source of knowledge and expertise for the society and be a preferred destination for undergraduate and graduate studies. In this department, two undergraduate and five post graduate courses are running at present. Faculty members of the department are involved with research work in various domains: Communication & Networks, VLSI & Embedded systems, Signal & Image Processing, Microwave & Radar Engineering and Electronics & Instrumentation Engineering. Many research projects are being pursued by faculty members with funding from different organizations like IMPRINT, SERB, ISRO, DST, DRDO and BRFST.

For further information please contact:

Coordinator

Dr. Samit Ari

Dept. of Electronics & Communication Engineering
National Institute of Technology Rourkela

Rourkela – 769008, Odisha

Phone: +91-661 246 2464

E-mail: samit@nitrkl.ac.in

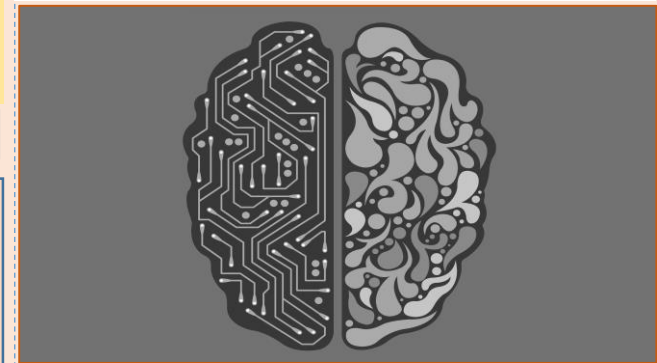
Link for registration:

<https://forms.gle/rtGWqa196pzY4ubh6>

For any query please contact to “Pattern Recognition Lab, NIT Rourkela”, Phone: +91-661 246 4464, E-mail: mltsipa.nitrkl2022@gmail.com



Machine Learning



Department of Electronics & Communication Engineering
National Institute of Technology
Rourkela-769008
INDIA





Scope of the workshop

This workshop is intended to highlight the theoretical and practical aspects of the machine learning techniques in the domain of signal and image processing. Machine Learning is a set of rules that is used to correctly solve the problems. The basic idea is to find patterns in data and then predict the outcome of something that has never seen before. Machine learning algorithms have attained new popularity as artificial intelligence (AI) has grown in prominence. AI is the simulation of human intelligence which is processed by machines, especially by computer systems. It is an effective tool for dealing with control, modeling, and decision making.

MAILING ADDRESS:

The Coordinator,

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"MACHINE LEARNING TECHNIQUES FOR SIGNAL & IMAGE PROCESSING APPLICATIONS-2022"

Workshop Highlights

- ❖ Fundamentals of Signal and Image Processing
- ❖ Introduction to Machine learning techniques; Single and Multi-Layer Perceptron-Back propagation algorithm; Radial Basis Function (RBF) Neural Network.
- ❖ Support vector machine (SVM) and its application on signal and image processing.
- ❖ Recent deep learning techniques: Convolutional neural network (CNN), Convolution/Pooling layers, Some Standard CNN architectures: ResNet, DensNet, UNet, etc.
- ❖ CNN Application for Classification and Detection problems
- ❖ Application of machine and deep learning techniques on signal and image processing.



NIT ROURKELA

NITR RANKINGS

| | |
|---|--|
| THE World University Ranking by Subject (Engineering) 2021 ★ RANK : 601-800 | THE World University Ranking by Subject (Physical Sciences) 2021 ★ RANK : 601-800 |
| NIRF Overall 2020 ★ RANK : 32 | NIRF Engineering 2020 ★ RANK : 16 |
| THE World University 2020 ★ RANK : 801-1000 | THE World Engg. & Technology 2020 ★ RANK : 601-800 |
| QS Asian University 2021 ★ RANK : 250 | QS India University 2020 ★ RANK : 29 |
| Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2020 ★ RANK : Band A (11th – 25th) | |
| THE Asia University 2020 ★ RANK : 190 | THE Emerging Economies 2021 ★ RANK : 201-250 |



Who should attend?

The workshop will be of immense interest to the faculty members, Engineers, Researchers, Scientists, Managers and other Executives, under-graduate and post-graduate students, working on diverse fields in Electronics Engineering, Computer Engineering, Electrical Engineering, Instrumentation Engineering, Biomedical Engineering, Biotechnology, Civil Engineering, and Mechanical Engineering.

The successful participants who will attend the whole course will be given participation e-certificate.

Registration Fees (Non-Refundable)

| Registration Type | Fees |
|--|---------|
| Faculty member | ₹ 1,000 |
| Scientist from Industry/R&D Organization | ₹ 2,000 |
| Student | ₹ 500 |

Important Dates

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| Last date of receipt | 23/01/2022 |
| Completed application form with transaction ID | |
| Confirmation will be intimated | 03/02/2022 |
| Through e-mail | |
| Course Commences on: | 07/02/2022 |

Registration

The application form should be filled online using the link given below by 23 Jan 2022. The selected candidates will be intimated by email on 03 Feb 2022. The selection committee's decision is final and will be binding to all the applicants. The registration fee will not be refunded in case of cancellation of registration by the selected candidate.

Registration form is available on website.
Website: www.nitrkl.ac.in