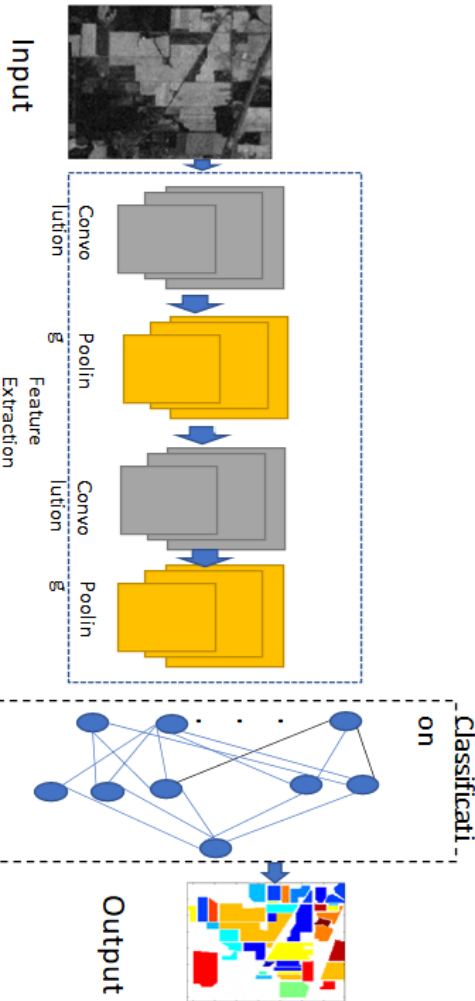


| International Workshop on Artificial Neural Networks: Schedule | | | | |
|---|--|---|---|---|
| Day 1 (24th September, 2020) | | | | |
| 2:00 PM – 2:15 PM (IST) | 2:15PM – 3:15 PM (IST) | 3:30 AM – 4:30 PM (IST) | 4:45 PM – 6:15 PM (IST) | |
| Virtual Inaugural | Introduction to ANNs Models (Prof. Akira Hirose) | Complex valued NN and Application in Remote Sensing (Prof. Akira Hirose) | Associative Memories (Prof. Rama Murthy) | ----- |
| Day 2 (25th September, 2020) | | | | |
| 2:00 PM –3:00 PM (IST) | 3:00 PM – 4:15 PM (IST) | 4:30 PM- 5:30 PM (IST) | 5:30 PM – 8:30 PM (IST) | 8:30 PM –10:00 PM (IST) |
| Introduction to Python basic libraries (Ms.Uponika Barman Roy) | Assignment on Python basic libraries using Google colab and Google classroom (Ms.Uponika Barman Roy) | Neuro-Evolutionary models (Prof. Marley Vellasco) | Introduction to Scikit-learn for demonstrating end to end project on Google CoLab (Dr. Tilottama and Ms.Uponika) Assignment on Scikit-learn on Google CoLab (Dr. Tilottama and Ms.Uponika) | Evolution to Optimize Neural Networks in Decision-making Tasks – (Prof. Risto) |
| Day 3 (26th September, 2020) | | | | |
| 2:00 PM – 3:10 PM (IST) | 3:30 PM – 5:30 PM (IST) | 5:00 PM – 6:15 PM (IST) | 6:30 PM – 7:45 PM (IST) | 7:45-8:00 PM (IST) |
| Generalized Operational Perceptrons (Prof. Alexandros Iosifidis) | Hands-on tutorial of Generalized Operational Perceptrons using PyGOP library (Dat Thanh Tran, Co lecturer) | Introduction to Keras APIs for demonstrating Deep Learning on Google CoLab (Dr.Naresh and Dr.Tilottama) | Assignment on DL on Google CoLab (Dr.Naresh and Dr.Tilottama) | Vote of Thanks |



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INTERNATIONAL VIRTUAL WORKSHOP ON INTRODUCTION TO ANN AND ITS VARIANTS: THEORY AND PRACTICE

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Abstract

Artificial neural networks (ANN) are computational machines inspired by the biological central nerve response system. A neuron in an ANN known as perceptron processes an input signal only if its strength reaches a preset threshold. The ANN comprise of an interconnection network of neurons organized into several layers coupled with a learning rule to update the connection rules transforms a given input signal into the desired output. In recent times, there has been a resurgence in ANN research with the advent of Boltzmann Learning Machine, Cognitron, Neocognitron and the Deep Neural Networks. The Complex-Valued, Spiking, and Evolutionary ANNs have shown promising results in real-life applications and decision making. The learning objectives include training in basic theory including practice on ANN models and their variants using Python.

International Speakers

1. Introduction to ANN Models : Prof. Akira Hirose, University of Tokyo, Japan
2. Complex Valued NN and Applications in Remote Sensing : Prof. Akira Hirose, University of Tokyo, Japan
3. Evolution to Optimize Neural Networks in Decision Making Tasks : Prof. Risto Miikkulainen, University of Texas, USA
4. Neuro Evolutionary Models : Prof. Marley Vellasco, PUC-Rio, Brazil
5. Generalized Operational Perceptrons : Prof. Alexandros (Alekos) Iosifidis, Aarhus University, Denmark
6. Hands-on tutorial of Generalized Operational Perceptrons using PyGOP library: Dat Thanh Tran, Tampere University, Finland
7. Associate Memories : Prof. Rama Murthy, Mahindra University, India
8. Introduction to Python and ANN on Google CoLab: Dr. Tilottama Goswami, Anurag University, India and Ms. Uponika Barman Roy, TCS, India
9. Predictive Modeling using ANN : Theory and Practice : Dr. Naresh, India