

Selected Articles for Practical Projects

- Note that
 - you must communicate one Topic and one Scope. For your choice you will receive a practical project in Python;
 - You may also submit a proposal on another topic for consideration.

1. Topics

1. Hebbian Learning
2. Hopfield Neural Network
3. Non-linear PCA Neural Network
4. Self Organizing Maps
5. Multi-Layer Perceptron (MLP)
6. Convolutional Neural Networks
7. Recurrent Neural Networks
8. Transformers
9. Graph Neural Networks
10. Reinforcement Learning
11. Generative models
12. Autoencoders
13. Deep Belief Networks
14. Diffusion Models
15. Neuro-Symbolic models
16. Computational Intelligence based models

2. Scopes

1. Signal processing
2. Image processing
3. Video processing
4. Bioinformatics
5. Biomedical signal Processing
6. Multimodal signal Processing
7. Geophysical and Astrophysical Signal Processing
8. Underwater Acoustic Signal Processing
9. Underwater Image Signal Processing
10. Underwater Video Signal Processing
11. Learning of Neural Networks
12. Explainable Artificial Intelligence
13. Visual Question Answering
14. Deepfake detection
15. Supply chain