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. Independent Component Analysis
2. Compressive Sensing
3. Sparse Coding
4. Feature extraction
5. Machine Learning
6. Deep Learning
7. Fuzzy Logic
8. Explainable Artificial Intelligence
9. Recurrent Neural Networks
10. Vision Transformers
11. Pattern Recognition

2. Scopes
1. Signal Theory
2. Stochastic Processes
3. Detection and Estimation
4. Spectral Analysis
5. Filtering
6. Image Processing; Pattern Recognition
7. Digital Signal Processing;
8. Multi-dimensional Signal Processing
9. Communication Signal Processing
10. Biomedical Signal Processing
11. Multimodal Signal Processing
12. Geophysical and Astrophysical Signal Processing
13. Remote Sensing
14. Radar Signal Processing
15. Sonar Signal Processing
16. Industrial Applications
17. Underwater Acoustic Signal Processing
18. Underwater Image Signal Processing
19. Underwater Video Signal Processing