- 1. Comparison of classic and Fuzzy set theory
- 2. Properties of Fuzzy sets
- 3. Operations on Fuzzy sets
- 4. Tautologies: modus ponens, modus tollens
- 5. Fuzzy relations, composition of relation
- 6. Structure of Fuzzy rule based systems
- 7. Mamdani type Fuzzy inference system
- 8. Sugeno type Fuzzy inference system
- 9. Defuzzification methods
- 10. Visual identification
- 11. Perceptron, Multi-level perceptron
- 12. Back propagation algorithm
- 13. Convolutional neural networks
- 14. Genetic algorithms
- 15. Tree partitioning methods
- 16. Simulated annealing algorithm
- 17. Shannon entropy