AI720 PROBLEM SOLVING METHODS

Credits: 3

1. Recommended Background

Basic computer science background or instructor's permission.

2. Course Outline

Problem Solving: Solving Problem by Searching, Informed Search and Exploration, Constraint Satisfaction Problems, Adversarial Search.

Planning: Planning, Planning and Acting in the real world. Uncertain Knowledge and Reasoning: Uncertainty, Probabilistic Reasoning, Logical Reasoning.

Search Techniques, informed search, Heuristics, Game-playing, Satisfiability

3. Reading Material

- 1. N.J.Nilsson: Principles of Artificial Intelligence, Narosa Publications.
- 2. D. W. Patterson: Introduction to AI & Expert System, PHI.
- 3. S. Russell and P. Norvig. AI: A Modern Approach, 2nd Edn., McGraw-Hill, 2003.