Computational Intelligence (AI) Agent

Capabilities / disciplines:
- Machine Learning
- Searching
- Definite Knowledge
- Planning
- Reasoning
- Robotics
- Knowledge

Subfields:

Machine Learning:
- Explanation Based Learning
- Neural Networks
- Decision Trees

Searching:
- Constraint Satisfaction
- Heuristic Search
- Graph Searching

Definite Knowledge:
- Recursion
- Grammar Augmentation
- NLP
- First Order Predicate Calculus

Planning:
- Time Representation
- World Representations
- Forward Planning

Reasoning:
- Semantics
- Symbolic Representation
- Clauses, Questions, Answer

Robotics:
- Agent Functions
- Robotic Systems
- Architecture
- Agent Models

Knowledge:
- Representation Language
- Map Problem to Representation
- Knowledge Based Systems

Legend:
- → (contribution)
- capabilities, disciplines
- subfield

Source: "Computational Intelligence: A Logical Approach" by David Poole, Alan Mackworth and Randy Goebel

Copyright ©Alfonso R. Reyes, 2020