Predicting protein secondary structure using AI techniques

1. Introduction(Domain, Objectives, Importance, Paper structure)
2. Proteins
   1. Importance in biology
   2. Formation in organisms(Biosynthesis)
   3. Structure
      1. Primary structure
      2. Secondary structure
      3. Tertiary structure
      4. Quaternary structure
   4. Protein databases
3. Artificial intelligence
   1. Brief history
   2. Domains of application
   3. Application in biology
   4. ~~Types of algorithms(basic notions)~~
4. Protein folding and artificial intelligence
   1. Early non-learning algorithms applied to protein folding
      1. Monte Carlo algorithm
      2. Chou Fasman method
   2. Artificial intelligence algorithms applied to protein folding
   3. Advantages and disadvantages so far + own future improvements
5. Comparison between different types of AI algorithms – own contribution
   1. Neural Network
      1. Requirements
      2. Specification
      3. Design
      4. Implementation
      5. Testing
   2. Genetic Algorithm
   3. Discussion and Comparison
6. Conclusions
7. References