



Computer Science
Illuminated

Nell Dale *and* John Lewis *Fourth Edition*

Chapter 13

Artificial Intelligence

Chapter Goals

- Distinguish between the types of **problems** that **humans** do best and those that **computers** do best
- Explain the **Turing** test
- Define what is meant by **knowledge representation** and demonstrate how knowledge is represented in a **semantic network**

Chapter Goals

- Develop a **search tree** for simple scenarios
- Explain the processing of an **expert system**
- Explain the processing of biological and artificial **neural networks**
- List the various aspects of **natural language processing**
- Explain the types of **ambiguities** in natural language comprehension