





# **Al Overview**

**Roy Turner** 

Associate Professor of Computer Science, UMaine Department of Computer Science



#### What is artificial intelligence?

- Area of computer science whose goal is to allow computers to:
  - do things that require intelligence
  - do things humans/animals easily do, but hard for computers
  - solve intractable problems on average more quickly
- Enormous number of AI areas/techniques:
  - Automated reasoning: theorem proving, planning, scheduling
  - Intelligent agent control
  - Interpreting senses: natural language processing, computer vision
  - Knowledge based (expert) systems
  - Machine learning





## What can AI do?

• Web search

• ...

- Intelligent control
- Planning complex operations
- Diagnostic reasoning
- Natural language processing
- Image understanding and generation
- Sentiment analysis, etc., for social media
- Data mining and analysis







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## Why AI now?





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# AI and UMaine

