Roadmap to Computing Topic:
Artificial Intelligence

Our next Roadmap Topic is 'Artificial Intelligence.' The introductory talk (~20 minutes) is at

http://vimeo.com/16322159

Below are suggested related topics for research reports. There are many other possible topics. Whichever topic you choose, in addition to identifying and presenting as precisely as possible the core concept of the topic, you may explore its development, social impact, and related controversies, both technical and social/political. If you choose a person, your report and presentation should focus on the contributions of the person to the topic at hand and present biography only as background.

AI programming languages (LISP, PROLOG)
Alan Newell
clustering algorithm
computer Go
computer vision
datamining
decision tree learning
Deep Blue
Edward Feigenbaum
expert system
face recognition software
frame systems
fuzzy/probabalistic logic
genetic programming
Herbert Simon
heuristic search

John McCarthy
knowledge engineering
knowledge representation
Marvin Minsky
medical expert system
minimax/alpha-beta pruning
natural language processing
neural network
ontology
Patrick Winston
robot navigation
rule-based systems
semantic network
semantic web
Seymour Papert
SHRDLU
support vector machine