

6.034 **Optimal Search**Dr. Kimberle Koile

September 11, 2020



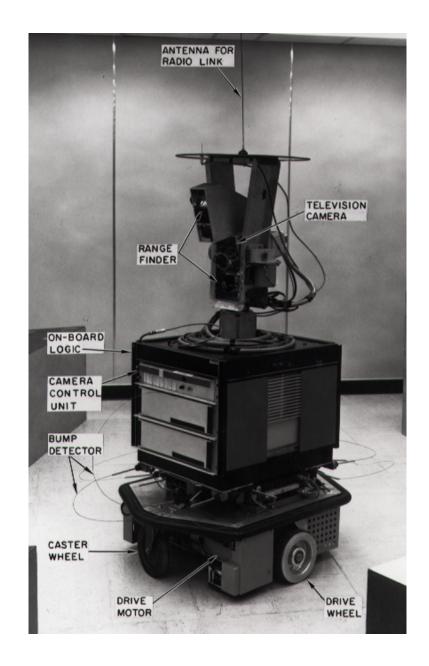


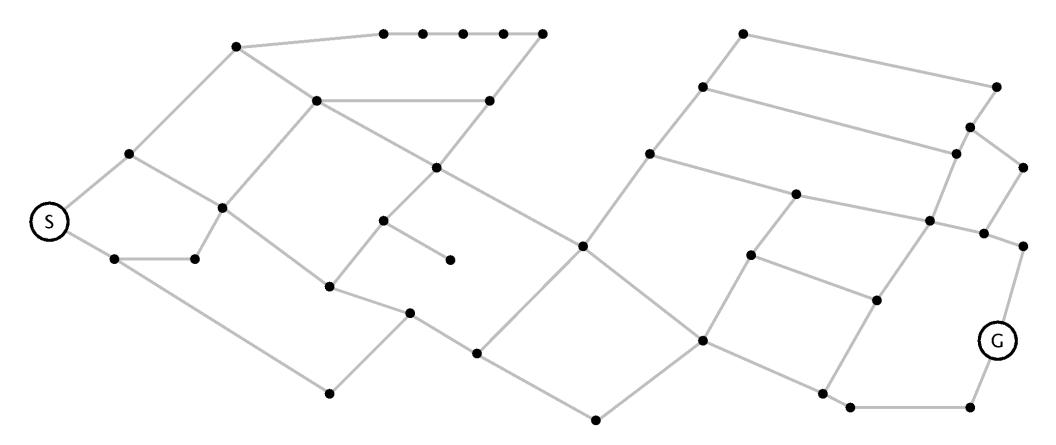
## Al Methods

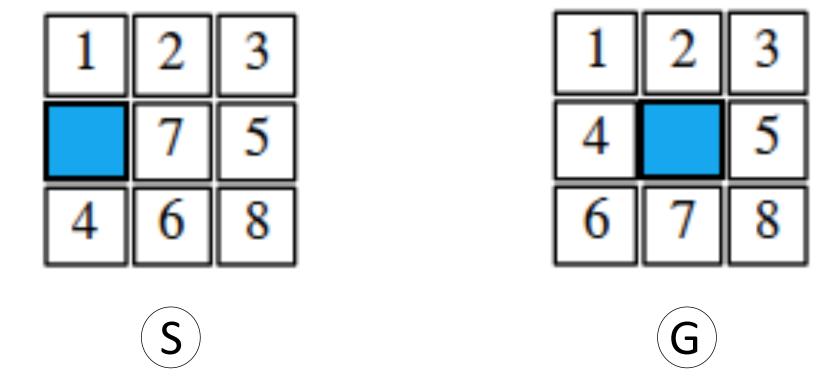
- Problem solving
  - ☐ G+T, search, optimal search, games, constraint satisfaction
- □ Inference
  - □ rule-based systems, Bayesian inference
- ☐ Machine learning
  - □ *k-nearest neighbors, id trees, neural nets,* deep neural nets, support vector machines, genetic algorithms, near miss/one-shot
- ☐ Communication, perception, action
  - □ natural language processing, vision, robotics

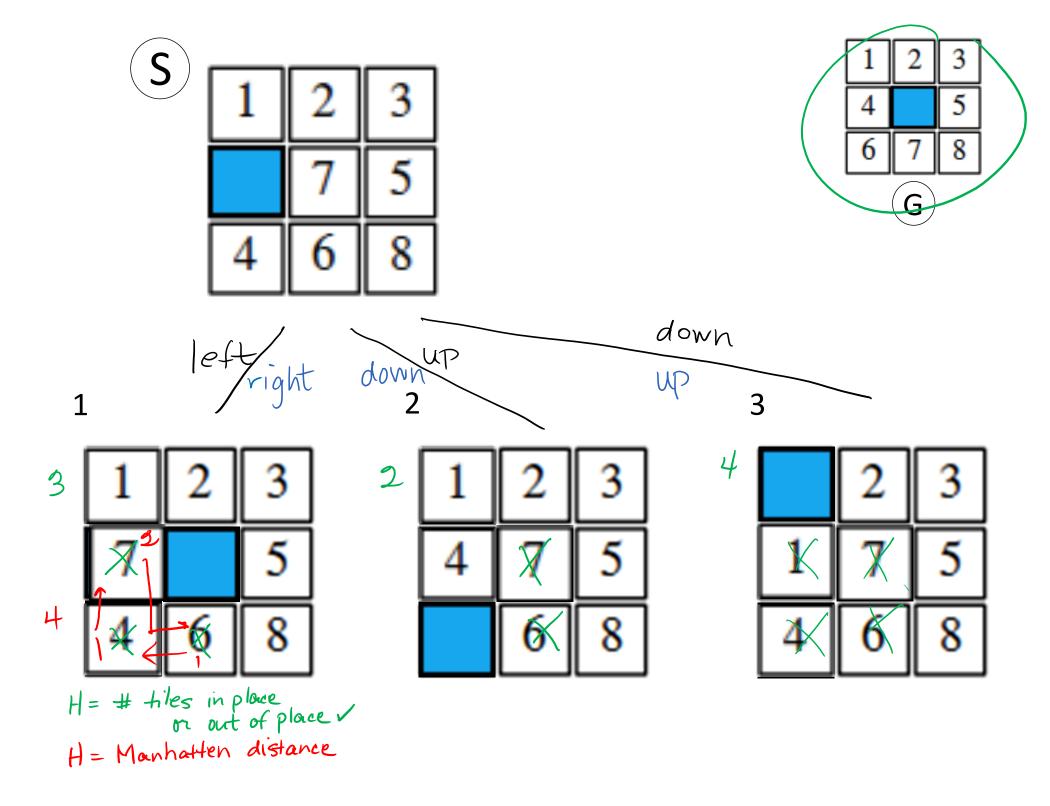


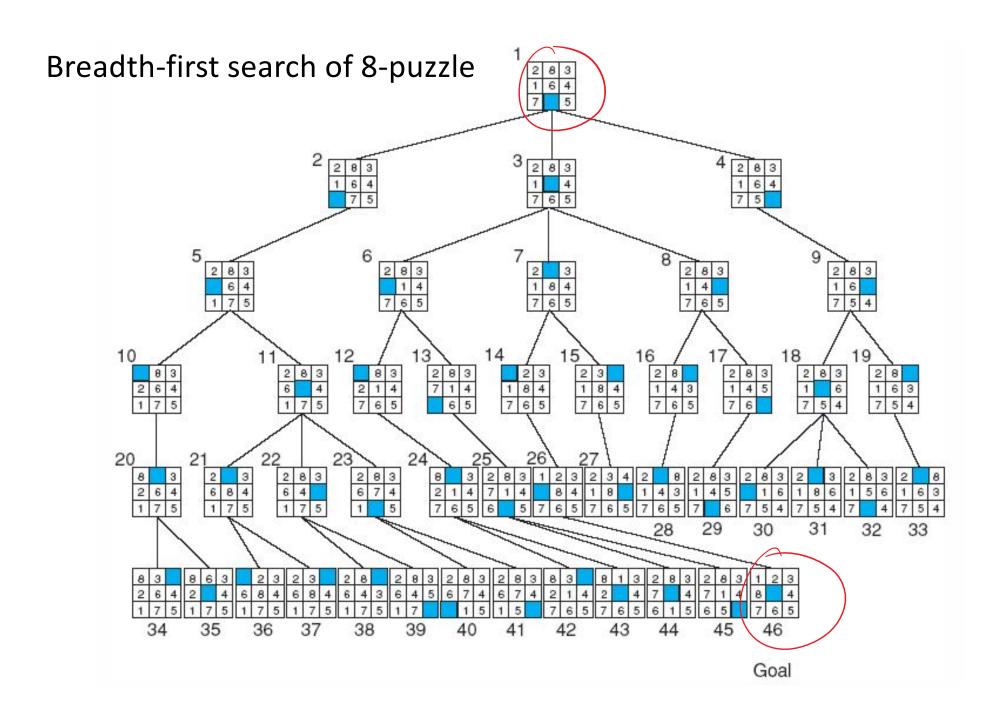


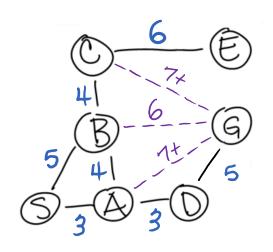


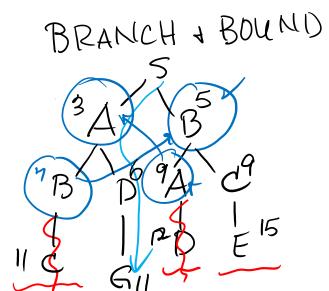






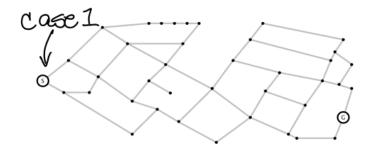


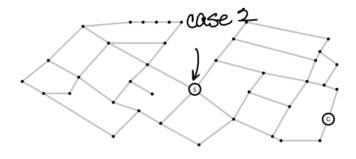


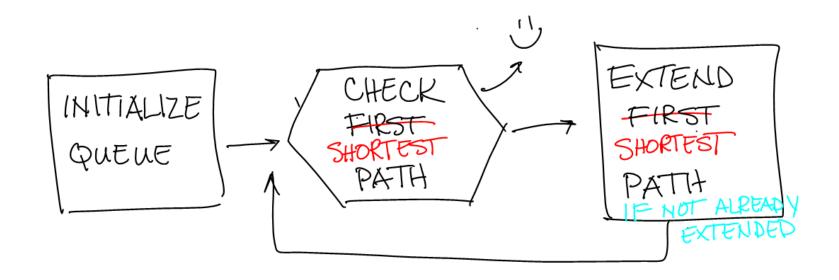


## COUNTING ENQUELLINGS

		case I	use I
/	BRANCH+BOUND	1190	111
)	+ EXTENDED LIST	63	60
	+ 1+	153	П.
\	→ A*	45	Ц







## COUNTING EXTENSIONS

		case 1	case 2
	BRANCH+BOUND	738	60
	+ EXTENDED LIST	35	33
	+ 1+	72	5
\	→ A*	26	. 5

