This lecture includes:

Traveling Salesman Problem

Hamiltonian cycle

Homeomorphism

Dijkstra’s algorithm

Kruskal’s algorithm

Karnaugh map

Traveling Salesman Problem:

Videos:

Traveling Salesman Problem Visualization, 2 minutes:

https://www.youtube.com/watch?v=SC5CX8drAtU

How to Solve Travelling Salesman Problems – TSP, 5 minutes:

https://www.youtube.com/watch?v=BmsC6AEbkrw

Travelling Salesman Problem - Minimizing Distance, 25 minutes:

https://www.youtube.com/watch?v=vNqE\_LDTsa0

Web:

http://en.wikipedia.org/wiki/Travelling\_salesman\_problem

Hamiltonian cycle:

Videos:

What is a Hamilton path? 2 minutes:

https://www.youtube.com/watch?v=6QFSkhcHLiA

Hamiltonian cycle, 4 minutes:

https://www.youtube.com/watch?v=hTbWLw4XQFU

Web:

http://en.wikipedia.org/wiki/Hamiltonian\_path

http://id.wikipedia.org/wiki/Lintasan\_Hamilton

Homeomorphism:

http://en.wikipedia.org/wiki/Homeomorphism

Dijkstra’s algorithm:

Web:

http://en.wikipedia.org/wiki/Dijkstra%27s\_algorithm

http://id.wikipedia.org/wiki/Algoritma\_Dijkstra

Videos:

Dijkstra Algorithm Example, 6 minutes:

https://www.youtube.com/watch?v=0nVYi3o161A

Dijkstra's Algorithm, 5 minutes:

https://www.youtube.com/watch?v=gdmfOwyQlcI

Kruskal’s algorithm:

Web:

http://en.wikipedia.org/wiki/Kruskal%27s\_algorithm

Videos:

Kruskal's algorithm, 1 minute:

https://www.youtube.com/watch?v=71UQH7Pr9kU

Kruskal's Algorithm - step by step guide, 4 minutes:

https://www.youtube.com/watch?v=5XkK88VEILk

Karnaugh map:

Web:

http://en.wikipedia.org/wiki/Karnaugh\_map

Videos:

Karnaugh Maps, 5 minutes:

https://www.youtube.com/watch?v=CpsJoAwreqo

Karnaugh Map, 8 minutes:

https://www.youtube.com/watch?v=nwRkIbkc03g