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~~Ford Fulkerson~~

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Graph Theory

Introduction to

Flow Networks

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**Tutorial 1 What
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MIHALY

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SUMMARY

~~Ford Fulkerson
in 5 minutes~~

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example~~ Flow

Networks -

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Computability,

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Complexity,

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- Flow - 2004

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algorithm for

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~~How to Find the~~

~~Max Flow~~

Minimum cuts and

maximum flow

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Algorithm - How

to Create a

Residual Graph

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Detection in
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Algorithm

Network Flow,

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Push Algorithm

Flow Control

Unweighted

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Bipartite

Matching /

Network Flow /

Graph Theory

Network flows

with minimum

capacity arcs

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(Flow, Capacity,

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Subhash Suri
October 11, 2018

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When one thinks
about a network
(communication,

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Theory
social,
transportation,
computer
Algorithms And
Applications,
networks etc),
Solution
many fundamental
questions
naturally arise:
(1) how well-
connected is it,
(2) how much
data (commodity)
can it
transport, (3)
where are its

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In graph theory,
a flow network
is a directed
graph where each
edge has a
capacity and
each edge
receives a flow.
The amount of

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Flow on an edge cannot exceed the capacity of the edge. Often in operations research, a directed graph is called a network, the vertices are called nodes and the edges are called arcs. A flow must

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satisfy the restriction that the amount of flow into a node equals the amount of flow out of it, unless it is a source, which has only outgoing flow, or sink, which has only i

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**Flow network -
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Simplex methods, which iteratively improve the primal cost by moving flow around simple cycles, and dual ascent methods, which iteratively improve the dual cost by changing the prices of a

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subset of nodes
by equal
amounts.

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Applications ...

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In optimization theory, maximum flow problems involve finding a feasible flow through a flow network that obtains the maximum possible flow rate. The

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The maximum flow problem can be seen as a special case of more complex network flow problems, such as the circulation problem.

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