USE OF ALGORITHMS FOR PEDESTRIAN SAFETY AGAINST HARASSMENT IN MEDELLIN

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Team Presentation

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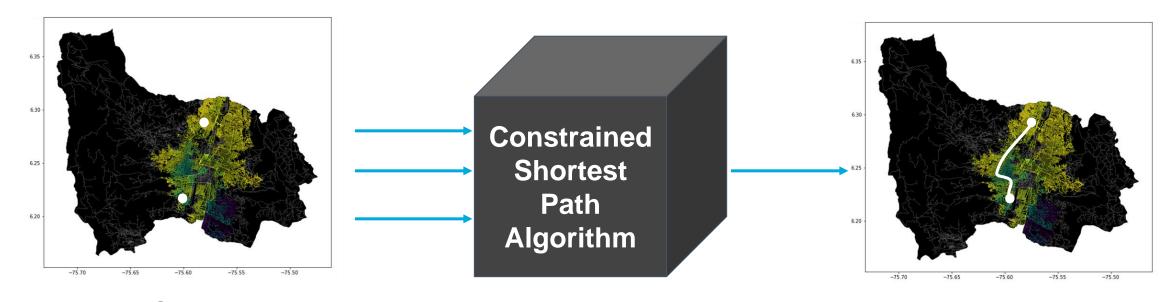Researcher
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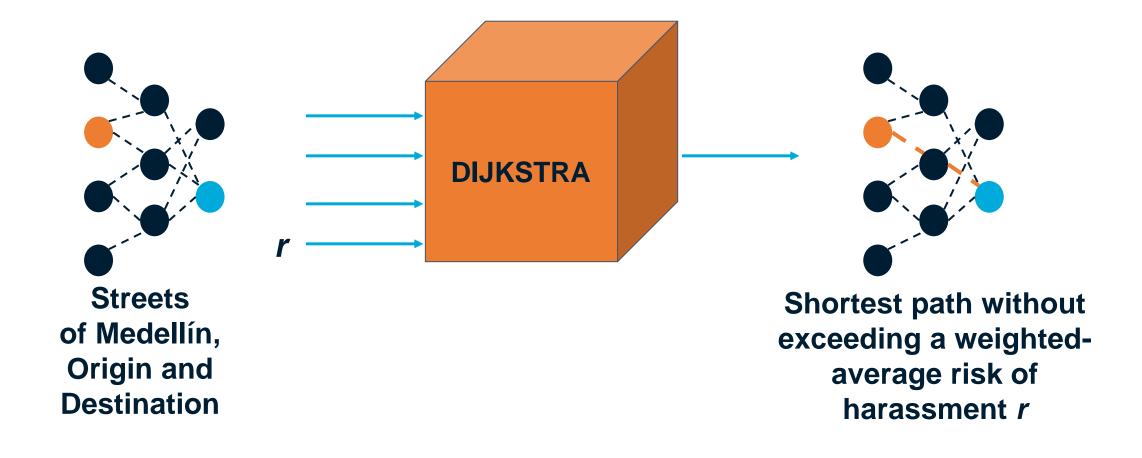
Mauricio Toro
Data preparation

https://github.com/QuitoTactico/ST0245-001

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**Streets
of Medellín,
Origin and
Destination**

**Constrained
Shortest
Path
Algorithm**

**Constrained
Shortest
Paths**

DIJKSTRA

r

**Streets
of Medellín,
Origin and
Destination**

**Shortest path without
exceeding a weighted-
average risk of
harassment *r***

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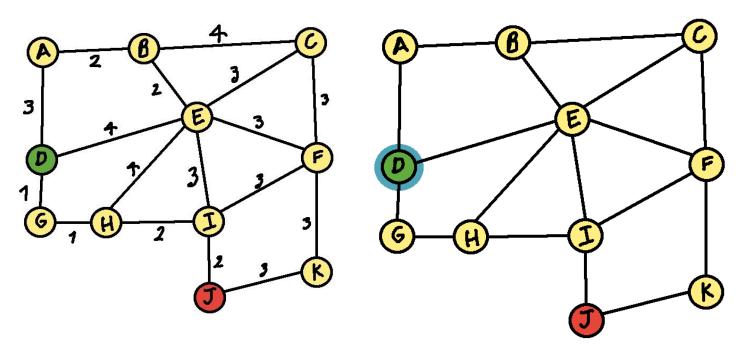
DIJKSTRA for the Constrained Shortest Path

DIJKSTRA

TIME COMPLEXITY	MEMORY COMPLEXITY
$O(n^2)$	$O(|v|^2+|e|)$

v = vertices
e = edges