





Esteban Vergara
Programmer
Researcher
Editor



Miguel Cock
Researcher
Graphic designer



Andrea
Serna
Literature review



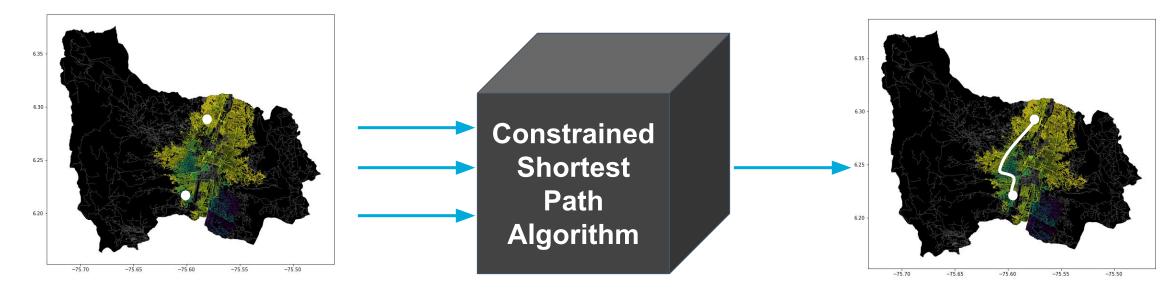
Mauricio
Toro
Data preparation





Problem Statement

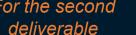


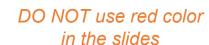


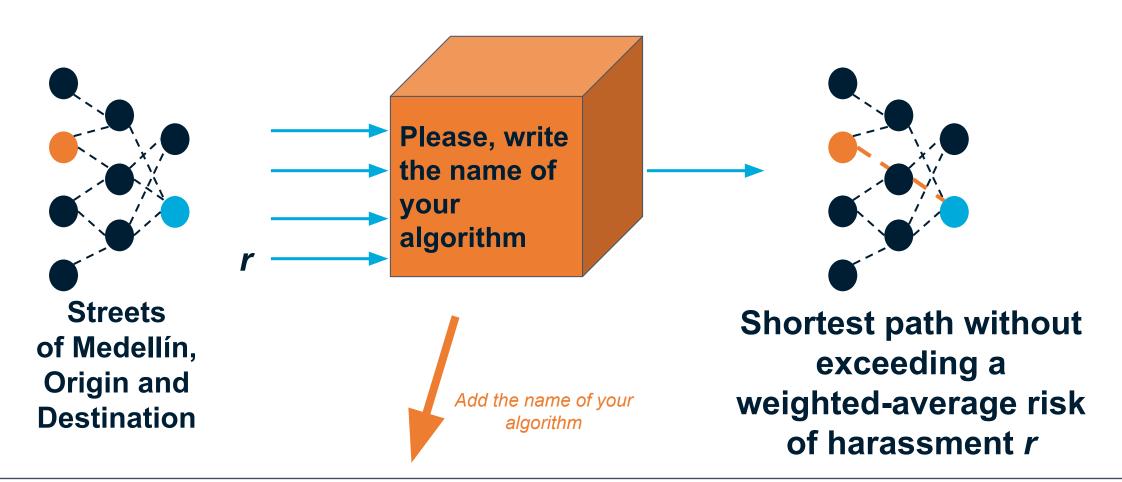
Streets of Medellín, Origin and Destination

Constrained
Shortest
Paths

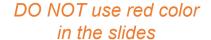


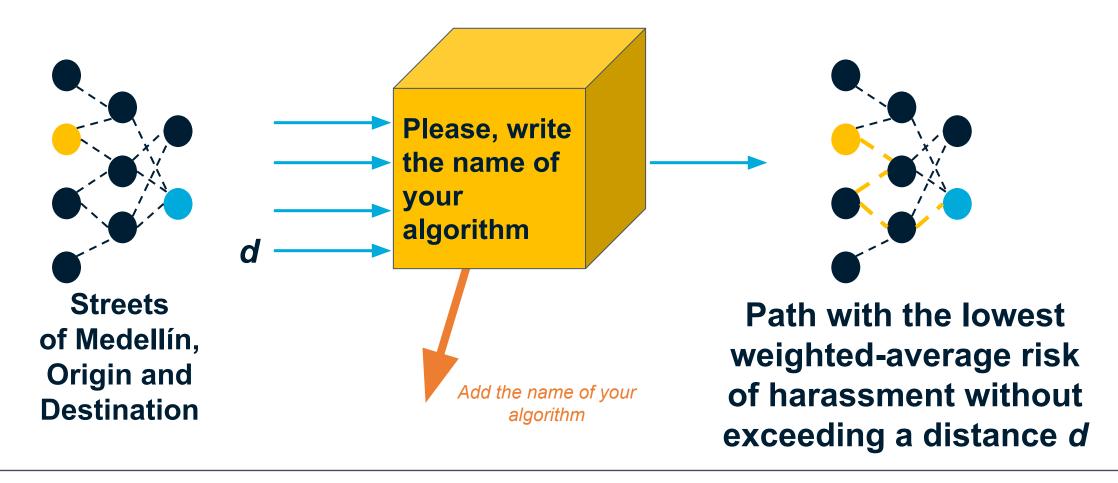














Algorithm Explanation

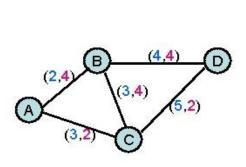
deliverable

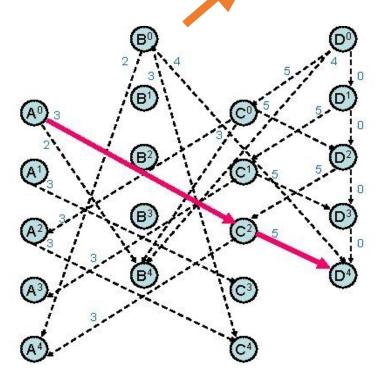


DO NOT use red color in the slides

Design you own figures in Lucidchart or equivalent: https://www.lucidchart.com/









Include a HD picture related to the problem of street sexual harassment

'Algorithm Name' for the Constrained Shortest Path

(In this semester, one could be DFS, BFS, Dijkstra, A*... please choose).





deliverable





Algorithm Complexity

	Time Complexity	Memory Complexity
Algorithm name	$O(V^{2*}E^*2^V)$	O(V*E*2 ^E)
Algorithm name (if you tried two)	O(V*V)	O(E)

Time and memory complexity of the algorithm name. V is... E is... (In this semester, one could be DFS, BFS, Dijkstra, A*). Please explain what do V and E mean in this problem. **PLEASE DO IT!**



Explain the tables in your own words

Create the table in Powerpoint. Do not copy pixelated screenshots from the technical report please!

DO NOT use red color in the slides





Include a HD picture related to the problem of street sexual harassment



Font size should be of at least 22 points



Shortest Path Results

DO NOT use red color in the slides

Create the table in Powerpoint. Do not copy pixelated screenshots from the technical report please!

Origin	Destination	Shortest distance (meters)	Without exceeding a weighted-average risk of harassment
Universidad EAFIT	Universidad de Medellín	??	0.84
Universidad de Antioquia	Universidad Nacional	???	0.83
Universidad Nacional	Universidad Luis Amigó	??	0.85

Shortest distance obtained without exceeding a weighted average risk of harassment r.



Explain the tables in your own words



Lowest Risk Results



DO NOT use red color in the slides



Create the table in Powerpoint. Do not copy pixelated screenshots from the technical report please!

Origin	Destination	Weighted-average risk of harassment	Without exceeding a distance (meters)
Universidad EAFIT	Universidad de Medellín	??	5000
Universidad de Antioquia	Universidad Nacional	???	7000
Universidad Nacional	Universidad Luis Amigó	??	6500

Lowest weighted-average risk of harassment obtained without exceeding a distance d.









UNIVERSIDAD

DO NOT use red color in the slides











2 hours 51 minutes









6 hours 51 minutes



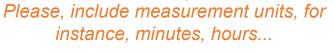






8 hours 51 minutes





Future Work Directions

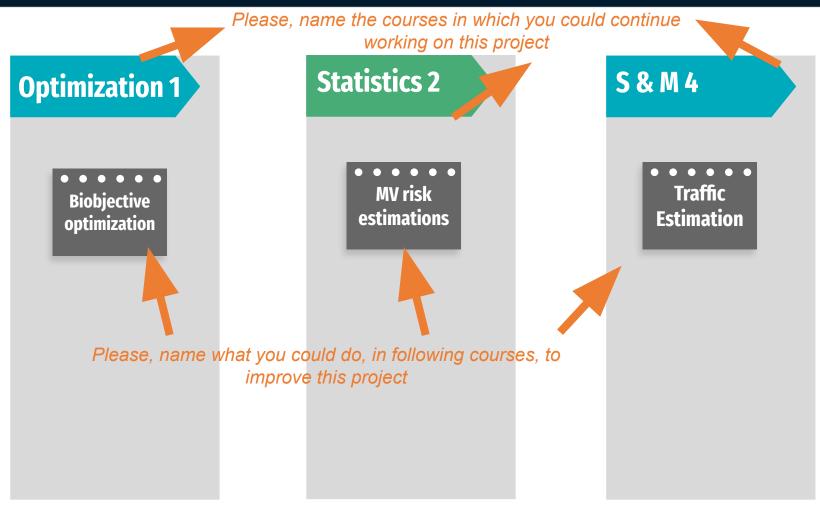


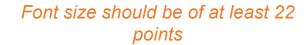
DO NOT use red color in the slides

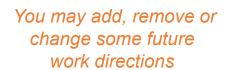
Probability

Other risk estimations

Remove this slide if you study Informatics Engineering









Future Work Directions



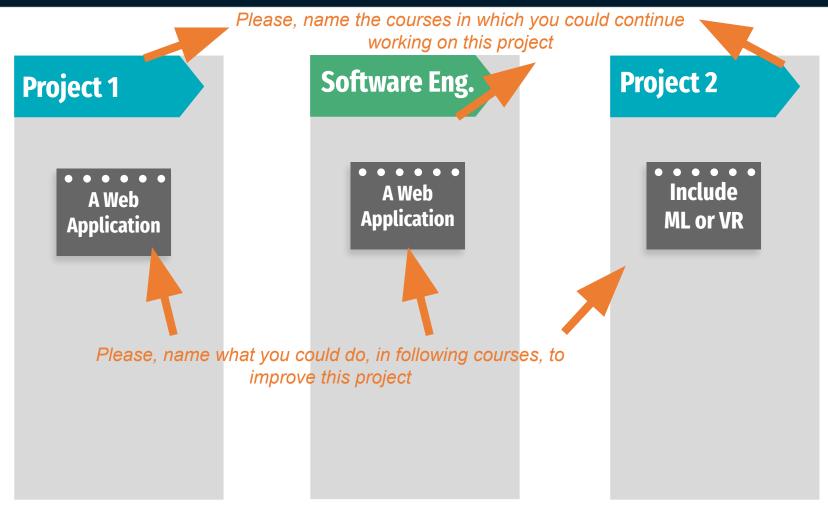
DO NOT use red color in the slides

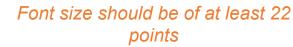
Databases

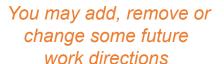
Add other

variables

Remove this slide if you study Mathematics Engineering









Report Accepted on OSF.IO





DO NOT use red color in the slides

Remove this slide if you report was not submitted to OSF

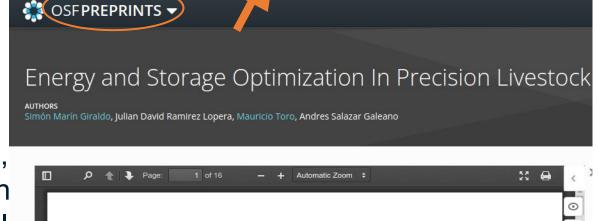
This is a screenshot example of a previous report

This is a citation example of a previous report

> Include the citation of the report in OSF PREPRINTS and link. No, not in OSF projects, but in OSF Preprints.

Julián Ramírez, Andrés Salazar, Simón Marín, Mauricio Toro. Energy and Storage Optimization Precision Livestock Farming. Technical Report, Universidad EAFIT, 2021. https://doi.org/10.31219/osf.io/du8yt

> Include a screenshot of your report published in osf.io and remove circle



ENERGY AND STORAGE OPTIMIZATION IN PRECISION LIVESTOCK FARMING

Simón Marín

Universidad Eafit

Colombia

smaring l@eafit.edu.co

paper will be centered around the classification of livestock. Primarily, by implementing an image recognition model

that will determine whether an animal (in this case a cow) is

Andrés Salazar

Universidad Eafit

Colombia

asalaza5@eafit.edu.co





Julián Ramírez

Universidad Eafit

Colombia

jdramirezl@eafit.edu.co

ABSTRACT



Mauricio Toro

Universidad Eafit

Colombia

mtorobe@eafit.edu.co



DO NOT use red color in the slides

Please do not forget the acknowledgements to your scholarship (if you have one) Otherwise, for who pays your tuition fee

THANK YOU!

Supported by

The first two authors were supported by Sapiencia grant, financed by Medellín municipality. All the authors would like to thank the "Vicerrectoría de Descubrimiento y Creación", of Universidad EAFIT, for their support on this research.

Font size should be of at least 22 points