

ECpE 491 – Weekly Report #2

Feb 5 – Feb 12

Project Title	Interactive evaluation of shortest path methods
Client & Advisor	Goce Trajcevski, Mengxuan Zhang
Team	sddec23-14
Team Members	Alex Blomquist, Samuel Caldwell, Selma Saric, Yadiel Johnson

1 Report

1.1 Abstract

This week, our team focused on reading research papers provided by our client and advisor regarding the domain of the project. In an effort to properly understand the subject matter, each member has spent time learning about the evolution and use cases of various shortest-path algorithms as described in “*A Survey of Shortest-Path Algorithms*” by Madkour et al.

1.2 Work Breakdown

This week, our team was assigned three different research documents relating to the crux of our project. Namely,

- [A Survey of Shortest-Path Algorithms by Madkour et al.](#)
- [Route Planning in Transportation Networks by Bast et al.](#)
- [Shortest path and distance queries on road networks: an experimental evaluation by Wu et al.](#)

In order to process them effectively, we are going through them sequentially, taking notes, and presenting any questions to our client. For this week, we’ve focused mostly on Madkour’s survey, which we expect to finish by our next meeting.

1.2.1 Major accomplishments

- Creation of a quick reference document for different shortest-path algorithms from the Topology of the Shortest-path Algorithms.
- Achieved a deeper understanding of the Shortest-path algorithms from reading material provided by the client.

1.2.2 Pending issues

- N/A

1.2.3 Individual contributions

Name	Individual Contributions	Worked Hours	
		This Week	Cumulative
Alex Blomquist	<ul style="list-style-type: none">Started reference document of topology of shortest-path algorithms.Started reading up on shortest-path algorithms with the documents given by the client.	5	8
Samuel Caldwell	<ul style="list-style-type: none">Started reading up on shortest-path algorithms with the documents given by the client.	3	6
Selma Saric	<ul style="list-style-type: none">Started reading up on shortest-path algorithms with the documents given by the client.	3	6
Yadiel Johnson	<ul style="list-style-type: none">Started reading up on shortest-path algorithms with the documents given by the client.	4	7

2 Comments and extended discussion

2.1 Work planned for next week

- Alex Blomquist
 - Continue working on Shortest-path Topology Reference Doc.
 - Review research that was given to us by the client on shortest-path algorithms.
- Samuel Caldwell
 - Review research that was given to us by the client on shortest-path algorithms.
- Selma Saric
 - Review research that was given to us by the client on shortest-path algorithms.
- Yadiel Johnson
 - Review research that was given to us by the client on shortest-path algorithms.

2.2 Summary of weekly advisor meeting

Client suggested continued reading of the provided research documents.