

Ethics and Professional Responsibility

Project Team 10

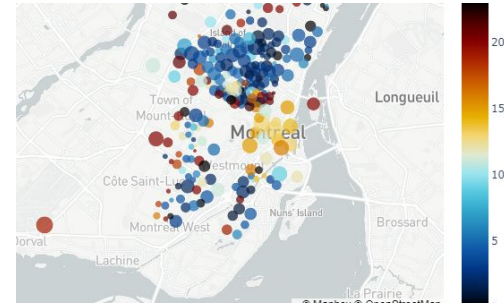
Project Title : *“Visualizing Probabilistic Whereabouts of
Moving Objects”*

Advisor and Client: Dr. Goce Trajcevski

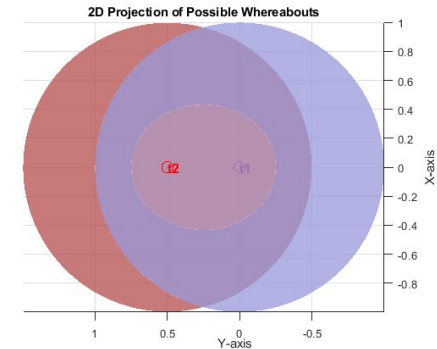
Project Overview

For our project we are going to design & create a web-based application for visualizing the probabilistic whereabouts of moving objects.

- Given a dataset of positions varied with time, use a set of tools to express the probability of the object existing at a given location in between any two samples (Generalize to chains of samples).
- Provide users with an interface that enables the user to enter queries and visualize results.



Plotted Data on a Map



Visualizing Whereabouts in Space

Communication Honesty

Successful IDEALS Professional Responsibility

- Relevance: Significant communication needed with lots of independent work to be reported
- Communicated honestly about success and failures
- Warned our faculty in advance of absences
- Asked for feedback about our performance and work
- Ethics: Were honest about the reality of the project



Social Responsibility

Developing IDEALS Professional Responsibility

- Relevance: Project is very niche, may not significantly benefit society (less relevant than some others)
- Benefits researchers with specific location prediction needs
- Not as relevant since it is not harmful and applications may benefit society in the long run
- Ethics: Our approach is not “unethical”, but is not as strong as possible



Ethical Concerns

- Data will be collected from users and stored
 - If private or proprietary data is shared, could be harmful
- Security may be weak because of inexperience from team
- Weakly-balanced team skills are not ideal to a professional level project

