



TrailBlazer



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Find best tracks for your outdoor trainings!

Introduction

Problem

New in an area and still want to practice your favorite outdoor sport such as mountain bike, hiking or footing?

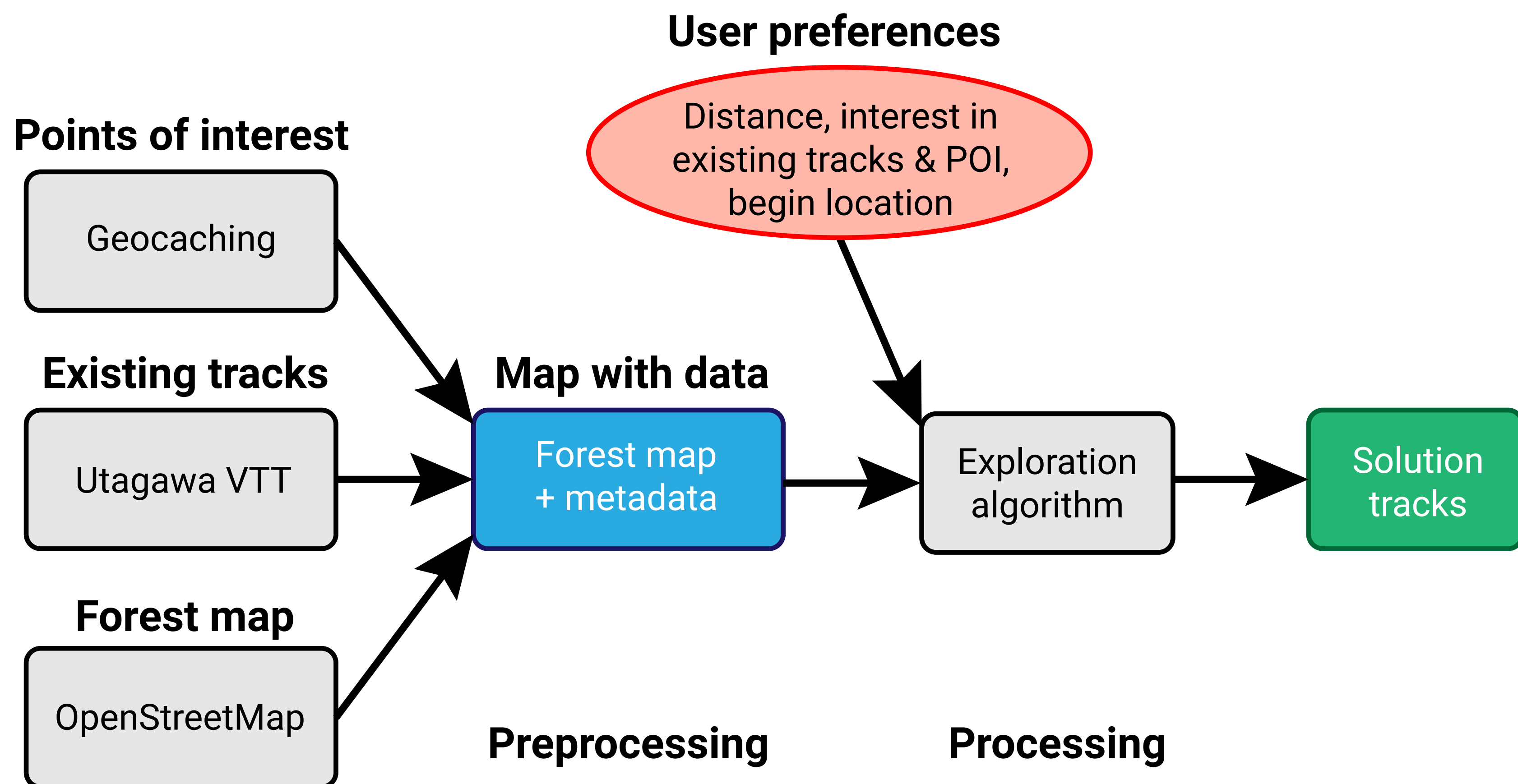
Solutions exist:

- Try to find a track with Google Maps,
- Search for point of interests online and try to reach them with a map.

But ... these solutions aren't viable:

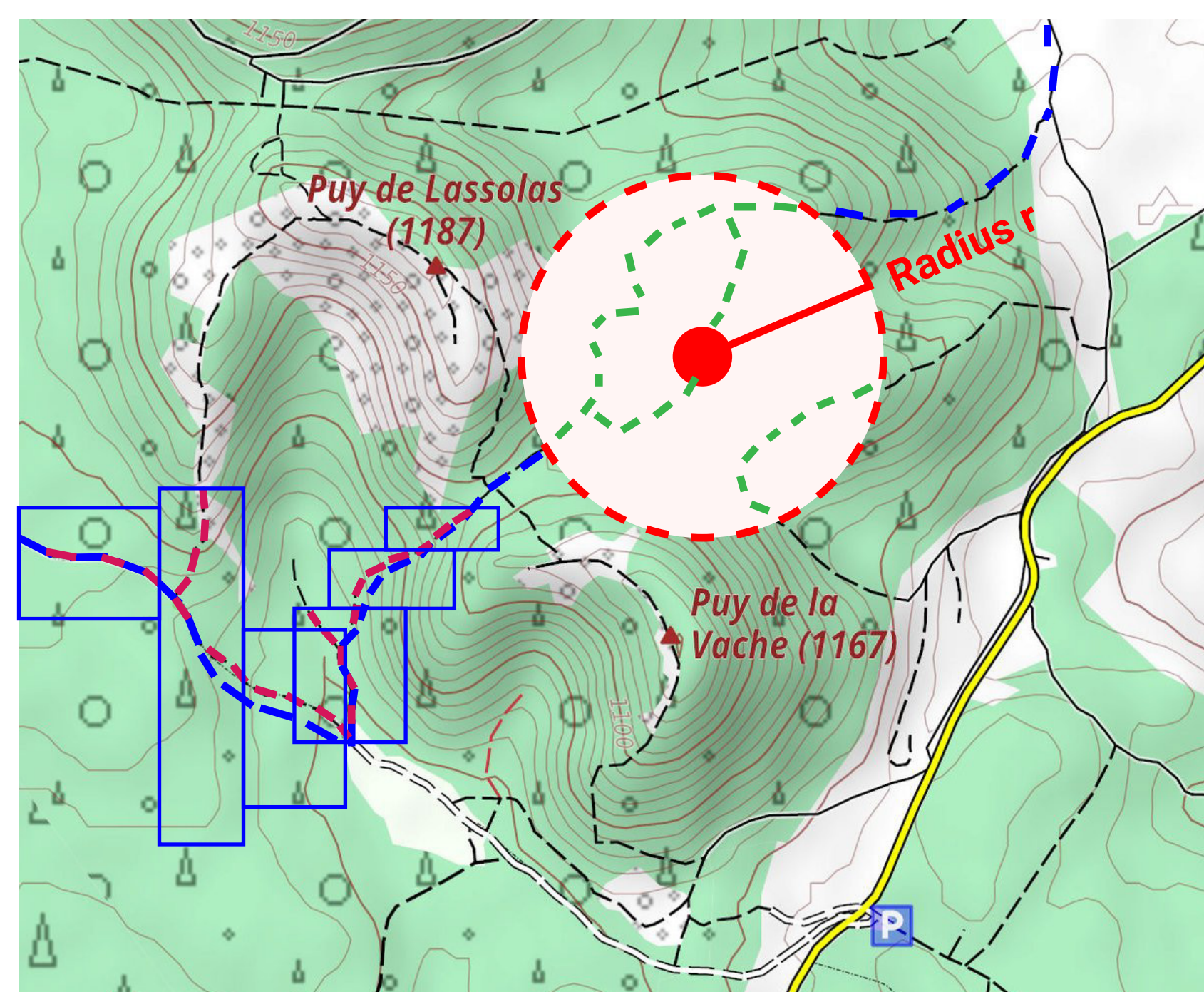
- Google Maps try to find the short way between two points, not the most interesting one,
- If you want to reach a POI, you cannot be sure the way to it is interesting too.

Our approach



Our data & preprocessing method

Geocaching database 250,000 POI + Utagawa VTT database 11,000 mountain bike tracks



POI preprocessing

- POI n°X
- Limit of neighbourhood
- Interesting roads Increase POIWeight

Tracks preprocessing

- Track n°Y
- Track approximations
- Interesting roads Increase TrackWeight

➔ GeoJson map with POIWeight & TrackWeight metadata

Experiments & results

What's new?

Our solution takes advantages of existing information on the internet: mountain bike tracks and POI. According to user preferences, the algorithm search best tracks around and propose them through a web interface. These tracks are optimized and the best regarding user desires.

Processing algorithm

