

AUTOMATION OF PROCESSING GNSS TRACK RECORDS FOR DESIGNING INTENSITY MAPS

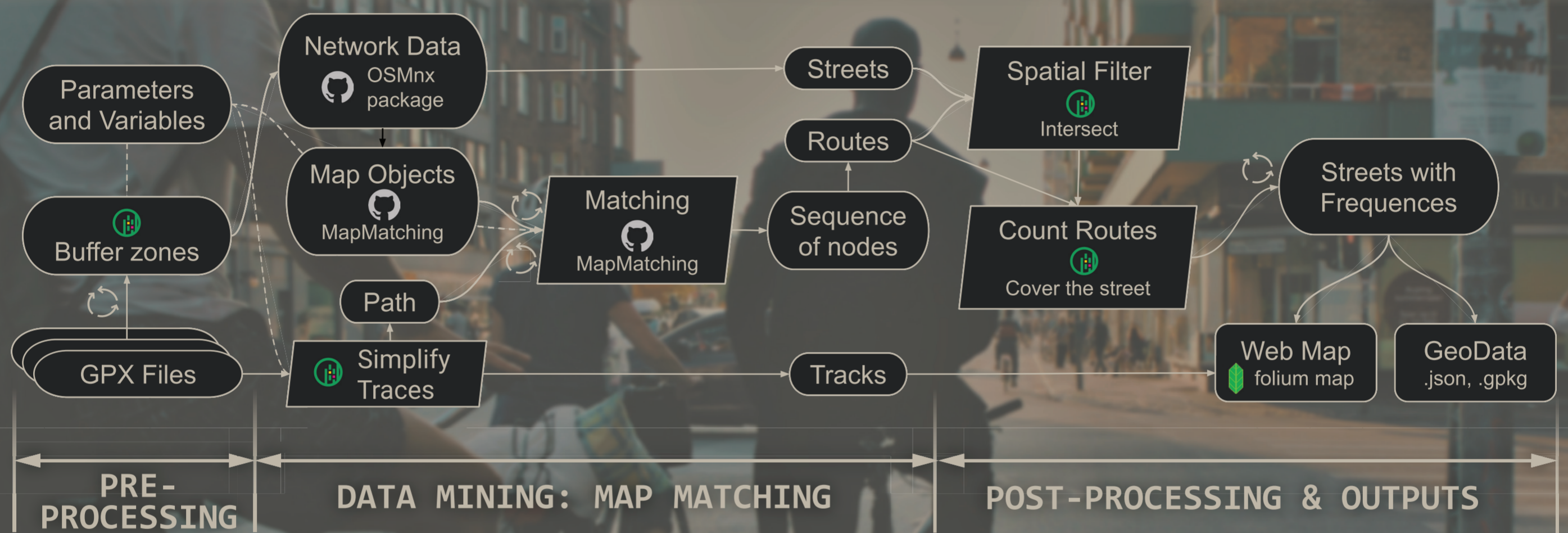
Diploma Thesis

Objectives

- (1) Automation of spatial analyses of GNSS trajectory data on street network.
- (2) Implementation of possible appropriate quantitative geovisualization.
- (3) Assessment of results (1) and (2) and possibilities for further use.

Methodology

- Tool development: design data processing, debugging. (1)
- Tool testing and assessment in three case studies. (2)
- Distribution of the tool for different user groups. (3)



TESTING AND ASSESSMENT

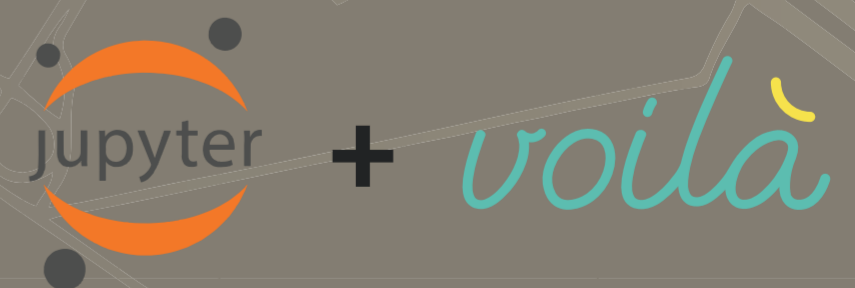
Optimal parameterisation tested in three different environments.

Generally, the correctness rate for the map matching in the case study areas is above 90 %.



DOCUMENTATION AND DISTRIBUTION GPX2INTENSITY

Tool *gpx2intensity* is distributed in Jupyter Notebook and in the web application via Voilà. Appropriate information for users is provided.



The poster is Attachment 8 to Diploma Thesis.

Author: Bc. Benjamín ŠRAMO (Copernicus Master Student)
Supervisor: Mgr. Radek BARVÍŘ, Ph.D. (Palacký University in Olomouc)
Co-supervisor: Prof. Bernd RESCH, Ph.D. (Paris Lodron University Salzburg)

Illustrative picture of urban mobility by Unsplash.

The QR code links to GitHub repository that serves as a portal to Attachments of the Diploma thesis.

