

GeoPriv: QGIS geoprivacy plugin

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User data on digital platforms is a constant target of attacks; particularly the geographic data, which is used for geolocated phishing campaigns, profiling attacks, tracking and on physical attacks on people. To face this problem, the scientific community has proposed different Location Privacy Protection Mechanisms (LPPMs), which have had little reception in the industry due to its complexity, its strong theoretical component and the lack of tools for its easy application. This causes very few companies to use them.

Geopriv is a project that involves the design and creation of a QGIS plugin for an easy application of LPPMs through the integration and implementation of various protection mechanisms based on location privacy. In addition, the plugin is open source and in the official QGIS plugin repository, which means that it is open for the community to contribute by adding more LPPMs.

This plugin gives the community a reliable tool for geoprivacy, so data that is going to be published, exported, shared or translated into maps has privacy protection. With this plugin, it is enough to load the data to be processed and observe the geographical representation of the result. Additionally, it has indicators to have an estimation of the similarity between the original data and processed data after the application of the LPPMs.

The documentation of the implemented mechanisms and usage tutorials can be found on the website <https://diuke.github.io/> and the plugin can be downloaded from the official plugin QGIS repository at <https://plugins.qgis.org/plugins/GeoPriv/> or from the QGIS add-ons administrator.

