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Doctoral Thesis Title: Analysis and modeling of information related to the prevention of gender violence using Geographic Information Science and Technology techniques.

Supervisor/s: Ana Belén Anquela Julián / Angel Martín Furones

Abstract:

The United Nations defines violence against women as "any act of gender-based violence that results in, or is likely to result in, physical, sexual or psychological harm to women, including threats of such acts, coercion or arbitrary deprivation of liberty, whether occurring in public or in private life" and is already considered a public health problem in different countries.

A way to support prevention strategies on this issue, particularly about street harassment or unofficial gender violence, is proposed, the goal of which is to design a data model and the repository that will store the variables, indicators, and metrics of this model, based on the integration of information from various sources, both from official agencies and generated under the concept of citizen science, in a crowdsourcing or participatory mapping scheme, through the collaboration of the users of public space, incorporating the elements that lead them to have a perception of insecurity in the cities. The model will be standard for urban, social, cultural, and economic scenarios.

As part of the project, algorithms will develop to allow the processing and representation of the results and the visualization and consultation of all the elements in a web-based application, leading to the identification of potentially unsafe areas for women. The application will provide a tool or platform for decision-making and generating public policies to prevent gender violence based on data or evidence.

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