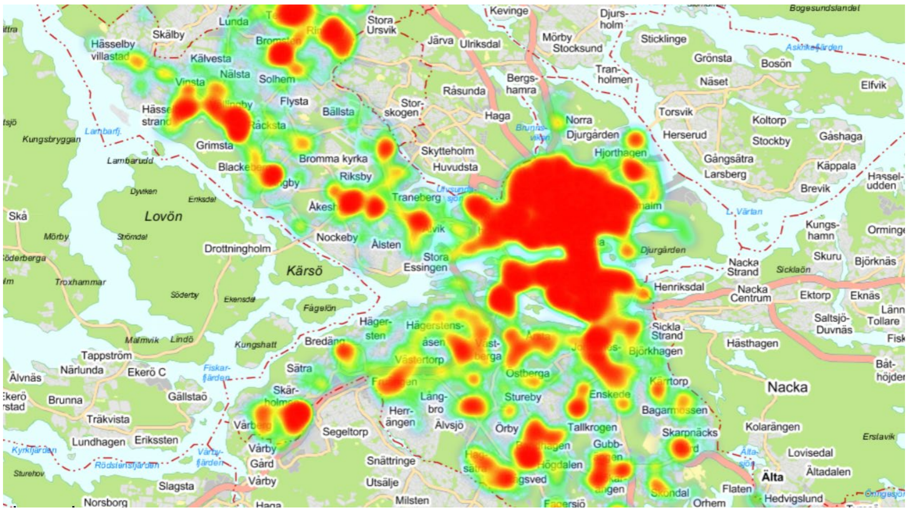
DEPARTMENT OF ARCHITECTURE AND CIVIL ENGINEERING
Chalmers University of Technology

Examenskod ACEX10



Road Crash Hotspot Analysis

The project will use the data collected during the previous year to analyze crash hotspots (most frequent road crash locations) in Stockholm and the transportation network and built environment characteristics associated with spatial crash concentration. The project is a combination on the literature review on crash frequency analysis methods, the comparison of the analytical methods and commercial tools for crash analysis, and the recommendations for crash countermeasures for various road user types. The topic can be written in English or Swedish.

Literature recommendation:

- Fawcet et al. A novel Bayesian hierarchical model for road safety hotspot prediction. In Accident Analysis and Prevention, Vol. 99, 2017, pp. 262-271.
- Tasic, I., and R.J. Porter. Modeling Spatial Relationships between Access to Multimodal Transportation and Traffic Safety Outcomes. In the *Journal of Safety Science*, Vol. 82, February, 2016, pp. 325-337.
- Hauer, E. The Art of Regression Modeling in Road Safety. Springer. December, 2014.

Target group of students

Civil Engineering

Group size

3-4

Special requirements

BOM355

Suggestion from

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Can the project be dupli-cated?

No.