

## **Routing algorithms in crisis management**

### *Abstract*

The work describes network analysis usage in the crisis management, concretely, holding an emergency for operation company's critical places. Those critical places are stationed across the whole republic, as well as emergency points that they operate. The work also describes how to minimalize a set of pre-entered emergency points in a way that will also keep all the critical points covered. The next part of the work is an implementation of a tool above chosen GIS, which serves to recognize, which emergency point (of already optimized set of emergency points) is to be sent to where critical point is while minimizing the disruption of other critical points in the network. The tool also contains graphical output.

**Keywords:** Graphical analysis, location – allocation, GIS