

Prof. Dr. B. Haverkort

Univ. Twente, Design and Analysis of Communication Systems

Survivability Evaluation of Gas, Water and Electricity Infrastructures

Abstract:

The infrastructures used in cities to supply power, water and gas are consistently becoming more automated. As society depends critically on these cyber-physical infrastructures, their survivability assessment deserves more attention.

In this overview, we first address critical infrastructures and survivability, before we focus on three classes of infrastructures (gas, water and electricity) and discuss recent modelling and evaluation approaches and challenges.

Keywords:

Survivability, critical infrastructures, cyber-physical systems, gas distribution networks, water distribution networks, smart grids, hybrid models.