Guest Lecture

HAEC

Survivability Evaluation of Gas, Water and Electricity Infrastructures

Dr. Anne Remke

University of Twente – The Netherlands

Monday, May 19th, 2014

3:00 pm - 4:00 pm

Room: BAR II 63 a

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 touch upon a taxonomy on survivability of cyber-physical infrastructures, before we focus on three classes of infrastructures (gas, water and electricity) and discuss recent modeling and evaluation approaches and challenges.

Bio: Anne Remke is assistent professor at the Design and Analysis of Communication Systems group, at the University of Twente, The Netherlands. She holds a Ph.D. degree (2008) from the University of Twente and a M.Sc degree (2004) from the RWTH Aachen, both in Computer Science. As a researcher, her focus is on dependability in critical 7x24 infrastructures, such as electrical power systems and their infrastructure and telecommunication and ICT infrastructures (i.e. SCADA). Her interest is currently focused on the dependability analysis of water treatment facilities in the context of her NWO Veni project on 'Dependability Evaluation of fluid critical infrastructures with hybrid stochastic models'.

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