Carnegie Mellon University

Metro21: Smart Cities Institute

January 16, 2018

Pittsburgh Crime Hot Spot Program: Preventing Crime with Predictive Policing

The team developed a predictive analytics program and policing strategy that is being used by the Pittsburgh Bureau of Police to predict crime hot spots and prevent serious violent crimes. A neural network model predicts locations that will

likely have crime flare-ups in the following week. Police then use community policing approaches to patrol and deter crime in the hot spots with the aid of real-time crime mapping from their patrol car laptop computers.

STATUS: The predictive system is built, rolled out to all Pittsburgh Police, and is in its evaluation period using experimental controls.

PARTNERS:

Pittsburgh Bureau of Police

Pittsburgh Department of Innovation and Performance

FACULTY:

Wil Gorr (co-PI)
Emeritus Professor of Public Policy and Information Systems, Heinz College, Carnegie Mellon University
gorr@cmu.edu (mailto:gorr@cmu.edu)

Daniel O'Neill
Associate Professor of Information Systems, Heinz College, Carnegie Mellon University
neill@cs.cmu.edu (mailto:neill@cs.cmu.edu)

Metro21: Smart Cities Institute
Carnegie Mellon University
5000 Forbes Avenue
Pittsburgh, PA 15213