PRESS RELEASE
Polis Solutions Teaming with the National Police Foundation and GE Research on Groundbreaking Body-Worn Camera Research Project
September 21, 2020

Polis Solutions is pleased to announce that we will be collaborating with the **National Police Foundation**, **GE Research**, and **Dallas PD** on a major new research **project** funded by the National Institute of Justice to develop and validate state of the art tools for automating the analysis of body-worn camera (BWC) footage.

Under the Police Foundation's direction, Polis and GE Research will develop multi-modal techniques to automatically analyze video and audio data from BWC recordings of police-community interactions. The techniques will combine video and audio data from BWC footage and integrate the two into models of police-citizen interactions using cutting-edge Natural Language Processing and Computer Vision tools. These models take simple features of language and behavior such as body movements, facial expressions, and verbal utterances, and combine them to create complex understandings of phenomenon related to procedural justice such as rapport, respect, trust, cooperation, and conflict.

Multi-modal analysis enables researchers to go beyond the static measurement of individual "traits and states" (emotion, personality, etc.) and explore the dynamics between police officers and citizens that unfold in real time during every interaction. By applying rigorous computational models of social interaction to BWC footage, the project team aims to gain the unprecedented capacity to open a window onto the actual procedures of language and behavior that underlie the academic concepts of procedural justice.

After the multi-modal tools are developed, Police Foundation researchers will validate them by comparing automated ratings of BWC footage with ratings completed by human evaluators. The validation process will use BWC footage taken from a random sample of Dallas PD officers in treatment and control groups who have participated in a procedural justice training effort.

This project has the potential to transform the capacity of police agencies to accurately and efficiently analyze BWC footage in ways that enhance public and officer safety and build greater police-community trust.

To learn more about this project and our other work, please contact us at info@polis-solutions.com, or visit our website at https://www.polis-solutions.net/.

> *Polis Solutions, Inc. is a national research, development, and training company that creates and implements customized, evidence-based solutions for police, criminal justice, and other organizations designed to improve public trust and safety, especially during face-to-face interactions.*