



Calhoun: The NPS Institutional Archive

DSpace Repository

News Center

News Articles Collection

2012-04-30

CORE Labs Lighthouse Project Casts a Bright Light on IED Networks

Naval Postgraduate School Public Affairs Office

Naval Postgraduate School

https://hdl.handle.net/10945/32340

Downloaded from NPS Archive: Calhoun



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

> Dudley Knox Library / Naval Postgraduate School 411 Dyer Road / 1 University Circle Monterey, California USA 93943

http://www.nps.edu/library



"We didn't feel like our project was finished simply because something had been transitioned into a commercial product. We wanted to continue to refine all of the practices and procedures for what we were doing, and really focus on the elements here in the CORE Lab," he added. "And that's why we have continued to really focus on open source and commercial-off-the-shelf technology and low-cost solutions to be able to do this data collection for the DOD."

Lighthouse has proven itself in more than just foreign hostile environments. The Monterey County Joint Gang Task Force has recently adopted the application in tracking and mapping gang activity using mobile devices. Still in its initial phases of implementation, personnel on the task force use their Android- or iOS-based smartphones to input data gathered in their daily interactions with the community.

The app acts much like their traditional paper reports in the field, but enables officers to streamline identifying information – such as tattoos, gang affiliations, and the names of individuals connected to the suspect – and reference previously gathered information that might help identify inconsistencies or connections.

California Highway Patrol Captain William Perlstein explained that the process will improve the efficiency of the reporting system, and make important gang information instantly accessible for law enforcement officers in the field. He commended Longley on his innovation, noting that the benefits of the system will likely continue to grow in number as law enforcement officers work on building a visual map of the human terrain in the areas with high gang activity.

"I've been doing this 23 years," Perlstein noted, "and for me, this is the first time that I've ever seen where emergency services and law enforcement have worked with academia on a research project that is just completely applicable to what we are doing in the field."

One of Longley's initial objectives was to bring these concepts into the hands of warfighters, and first responders. He credits his time in Iraq for inspiring his work, sparking an interest in better understanding complex environments, and giving the ground level personnel the off-the-shelf tools to effectively gather and analyze data.

The CORE Lab continues to work with Lighthouse, providing training and education to students and end-users of the system. While designed with the DOD operator in mind, the department responds to the needs of first responder and law enforcement communities in delivering Lighthouse in a way that meets their unique needs.

"It's a way of taking advantage of the technology as it's advancing," said Longley, "to improve our ability to understand these environments by applying a lot of the academic rigor that exists here at NPS in a very specific application for DOD and law enforcement purposes."

Posted on April 30, 2012

Contacts | Employment | Copyright/Accessibility | Privacy Policy | FOIA | Intranet Access

This is an official U.S. Navy website. All information contained herein has been approved for release by the NPS Public Affairs Officer. Page Last Updated: Apr 16, 2013 10:08:59 AM | Contact the Webmaster