

Coordinated Safety Management Across Smart Communities

Jose Fortes, Renato Figueiredo, Richard Hayes, Ryan Sharston, Yan Wang, Univ. Florida
PG, Solicitation Year FY2019

Community Partners: Sheyla de Santana, David Duda, Erik Bredfelt from the City of Gainesville
Carrie Bush, Univ. of Florida, Joseph Souza, Univ. of Florida

Community-identified problem: Effective coordination of public-safety protection activities between the City of Gainesville and the University of Florida.

Intellectual Merit: Advances on

- information extraction at the edge and centralized analytics.
- approaches to privacy-value exchange and data bias.
- built-environment adaptation techniques

Project Activities to Date:

• Meetings amongst the PIs and staff and/or representatives of UF Security department, UF Facilities, UF Office of the Chief Operating Officer, UF Facilities, Gainesville Technology Department, Gainesville Smart City Coordinator and Gainesville Economic Development Department.

- Initial development and deployment of a living lab for study of safety-related city and campus scenarios.
- Exploration of research ideas and approaches
- Involvement of representatives of UF students and other Gainesville residents.

Broader Impact (immediate): The project has the potential to

- improve the efficiency and efficacy of public-safety measures and services
- interdisciplinary education on social sciences, information technology and environmental engineering

Broader Impact (sustained) :The project has the potential to enable

- systemic coordinated safety management between U. Florida and Gainesville
- university-city coordination models that apply to other university towns

Next Steps in Coming Year:

- Engagement with communities of UF students and Gainesville residents.
- Characterization of representative safety management scenarios
- Preliminary work
- Submission of SCC-IRG proposal