

Novel Information Technology Solutions to Pervasive Issues in Homeland Security

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Predictive Interactive Visual Analytics for Planning, Response, and Resiliency

- Visual analytics enables proactive and predictive decision making
- Examples of projects/demonstrations include search and rescue, resource allocation, proactive policing, public health, plume modeling for evacuation, and in-field mobile apps

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Facilitation of Third-Party Development of Advanced Algorithms for Explosive Detection

- Airplanes still high-profile target using explosives
- A tactic of DHS is to augment capabilities and capacities of traditional vendors of security equipment with 3rd party involvement
 - Successful model in other fields such as medical imaging
- Describe how use of workshops and grand challenges facilitates the involvement of 3rd parties in the development of advanced algorithms for detecting threats