References for Layered Security and Architectural Design

Research Project **RD.1: Layered Security Architectural Design**

About the SENTRY Center of Excellence:

Established at Northeastern University in 2021, the **Soft Target Engineering to Neutralize the Threat Reality (SENTRY)** is a multi-institution Department of Homeland Security Science and Technology Center of Excellence. SENTRY strives to ensure the existence of safe, secure public spaces by creating functional and adaptable solutions to detect and mitigate targeted violence. The SENTRY mission is three-fold: conduct stakeholder-informed research to better secure soft targets and crowded places, implement the Virtual Sentry Framework strategy, and educate the current and future homeland security workforce.

The SENTRY research structure ties the technical challenges of protecting soft targets and crowded places to four fundamental research areas. These areas focus on advanced sensing technologies, risk assessment and deterrence, real-time threat detection and mitigation, and **layered security architecture design**. Our comprehensive research approach allows for continuous feedback between research outcomes and stakeholder needs and a pathway to transition for public and private development.

About the Research Project RD.1: Architectural Design Research

Within the SENTRY research area of *Layered Security Architecture Design*, the specific project **RD.1 Architectural Design Research: Integrating Security in the Public Realm** addresses a complex design problems at the intersection of human behavior and technology, creating new knowledge to assess the vulnerability of public spaces, design smart urban and architectural spaces that reduce or eliminate vulnerabilities, and integrate detection technology with human intelligence.

About this Document

This document contains the citations for reference materials collected to date during the **RD.1 Project** research, and so comprises a moment-in-time snapshot of materials used to inform or support our work. No endorsement or critique is made or implied by the presence or absence of any source on this list. Citations are grouped into libraries to support navigation and listed alphabetically within each heading but are not otherwise organized. Items may be duplicated in multiple locations. Good faith efforts have been made to provide complete and correct citations: the curators of this list apologize for any inadvertent errors.

Acknowledgement and Disclaimer

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