Contribution ID: **133**   Type: **Invited Talk**

Multi-modal Sensing for Radiation Detection and Imaging: From Robot Dogs to City-scale Networks

Wednesday 5 March 2025 11:00 (30 minutes)

Multi-modal sensing continues to enable the development of new and improved radiation detection and imaging capabilities for nuclear security. These advancements range from increased radiological/nuclear domain awareness, to enhanced detection sensitivity and imaging performance in real-world environments. This presentation will discuss the development and application of multi-sensor systems and radiological-contextual fusion methods currently being developed at Lawrence Berkeley National Laboratory, including work taking place in collaboration with UK partners. Future directions, including the use of advanced robotic platforms, autonomy, and greater exploitation of contextual features, will also be explored.

Author: COOPER, Reynold (Lawrence Berkeley National Laboratory)

Presenter: COOPER, Reynold (Lawrence Berkeley National Laboratory)

Session Classification: Session 1: Source Location and Tracking