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BASE-IT: Behavioral Analysis and Synthesis for Intelligent Training (archived)

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Monterey, California: Naval Postgraduate School

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BASE-IT: Behavioral Analysis and Synthesis for Intelligent Training

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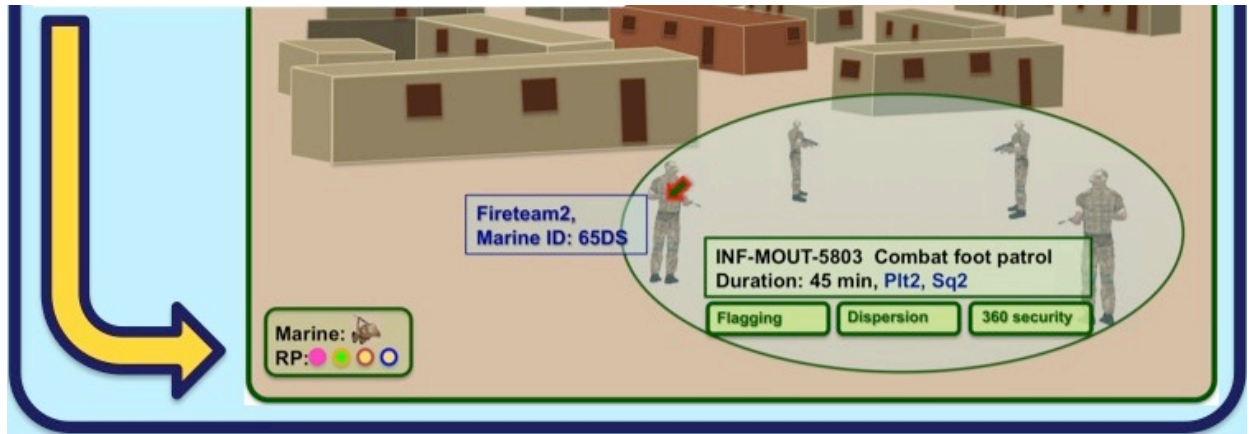
A primary objective of this project is to develop a state-of-the-art intelligent training system for automated evaluation of performances in MOUT training. The system will include behavior analysis, review, and behavior synthesis as well as a set of training approaches, aimed to support a wide range of training and operational needs in preparing for and conducting the training in MOUT facilities.

Our proposed approach is to use an in situ network of automatically-controlled pan, tilt and zoom (PTZ) cameras, and personal position and orientation sensing devices, to create static three-dimensional (3D) environment models, dynamic 3D participant models, and dynamic multi-dimensional participant pose tracks that can be viewed from any perspective. The system will include automatic semantic parsing of the dynamic models and tracks, with interactive and automatic configuration, event detection, and annotation to increase the usefulness and effectiveness of reviewed material. We also plan to devise a novel set of training and instructional approaches specially designed for this set of systems and tools.

Institutions involved:

- Naval Postgraduate School - NPS
- Sarnoff Corporation
- University of North Carolina at Chapel Hill - UNC





BASE-It concept image: A. Sadagic (NPS), 2008