



RECENT ADVANCES IN AI FOR NATIONAL SECURITY

MIRAGE - MIXed Reality for Augmenting Group Experiences – Costas Frost

Poster Abstract

The Technology Office (TO) conducted a live-action competition to explore how Lab-built augmented reality (AR) prototypes can enhance their performance to accomplish real-time and complex objectives. During the MIRAGE challenge, teams were provided a HoloLens 2 and received support from the main development team to build unique AR tools. The challenge environment consisted of hazards, puzzles, and roaming opponents to disrupt the teams. Each challenge team consisted of an operator and a handler working together using different platforms with asymmetric knowledge of the environment. Please join us to learn more about the challenge environment, development, and execution of the MIRAGE Challenge.

About the Author(s)

Costas Frost is a specialist in the AI Software Architecture and Algorithms Group at MIT Lincoln Laboratory and works on simulation development. His expertise is in 3D modeling, procedural generation, and programming for simulations. He is currently working on projects in the machine learning and XR spaces. He has previously worked on Emmy nominated visual effects and has been featured by Unity.

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