

Abstract

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JRAPS for Mission Planning

Track: Defense and Intelligence

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The Joint Routing and Analysis Planning System (JRAPS) was initially developed to support combat mission planning. The tool analyzes the most critical factors in strike mission planning; the threats and the geospatial factors. JRAPS has two primary functions; auto-routing and jammer planning. The auto-routing function uses a 3D air maneuver network created using "costs" associated with threats taken from the ETIRMS database. The jammer planning function shows which threats can potentially see an aircraft at any point along a flight path, and gives crucial information about that threat including which jamming type could keep sensors from seeing that aircraft.

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