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1. MDA13-T001: Decision Making under Uncertainty

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Analyze the impact of sensor measurement uncertainties on centralized data fusion and design optimal strategies to mitigate the associated target classification. DESCRIPTION: This topic solicits innovative approaches to characterize target sensor measurement uncertainties and to design effective sensor architectures to aid uncertainty mitigation (e.g. whether sending measurements or ...

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2. MDA13-T002: Micro-Particle Debris Characterization from Hyper-Velocity Impacts

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop innovative, laboratory-based methods to measure and characterize (i.e. size, number, temperature etc.) the small particles less than 1 cm generated in hyper-velocity impacts. Those methods should provide benchmark data for physics-based impact debris prediction codes aimed at modeling electro-optical / infra-red (EO/IR) impact flash signatures. The methods may include sensor ...

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3. MDA13-T003: Enhancement of Ballistic Missile Defense System Level Simulation Operations Through Multi-core Processing

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop technology to enhance the Missile Defense Agency"s (MDA) Ballistic Missile Defense System (BMDS) simulation operations through the employment of multi-core processing environments. DESCRIPTION: With the introduction of the Objective Simulation Framework (OSF), the BMDS enterprise-level simulation has the potential to present a more realistic and complex missile defense sc ...

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4. MDA13-T004: Event Integration & Execution Checklist Automation in Support of Improved Situational Awareness and Knowledge Dissemination (AutoCheck)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an innovative distributed software package that generates, tracks and correlates Ballistic Missile Defense System (BMDS) event integration and execution tasks in order to improve situational awareness and user accuracy for event stakeholders. DESCRIPTION: AutoCheck will be of potential benefit to almost every DoD entity, including all the service components. Any activity t ...

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5. MDA13-T005: Command and Control, Modeling and Simulation, Training

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Investigate, design, and develop a command and control training system that incorporates state of the art virtual world, virtual reality, gaming engines, avatar, and artificial intelligence technologies. The end state would be multi-player distributed command and control training simulation that is able to model complex command and control element interactions and that is able to synt ...

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6. MDA13-T006: Reliability Model and Data Acquisition for Solid Propellant Missiles

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop an innovative high-fidelity, comprehensive framework that estimates reliability and aids in reliability growth for missile systems employing solid propellant motors. DESCRIPTION: The Targets and Countermeasures Directorate of the Missile Defense Agency (MDA) employs refurbished target systems to simulate current threats with improved reliability. Innovative techniques to ...

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7. MDA13-T007: Lightweight Optical Benches and Mounting Structures

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The Missile Defense Agency (MDA) is pursuing technology to develop the next generation airborne laser. Part of the design places an emphasis on weight constraints; therefore MDA is placing interest in investigating materials to manufacture lightweight optical benches while maintaining high degrees of stiffness for low vibration and precision alignment. MDA is also interested in explo ...

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8. MDA13-T008: Phased Array Laser Beam Steering

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop a novel phased array laser beam steering capability for large-aperture high-power combined fiber laser systems. This innovative capability should allow for fine beam steering on the order of micro-radians to nano-radians with potential traceability to larger angle beam steering. DESCRIPTION: Pointing High Energy Lasers (HELs) over great distances requires precision optic ...

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9. MDA13-T009: Lightweight Optics for Directed Energy Systems

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The Missile Defense Agency (MDA) is pursuing technology to develop the next generation airborne laser. This system will be weight constrained. Therefore, MDA is interested in investigating novel concepts to create lightweight optics and coatings while maintaining high power densities because the beam control system is projected to comprise a significant portion of the weapon system w ...

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10. MDA13-T010: Corrosion Protection of High-Value Test & Evaluation Assets

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: This research and development effort is to provide significant enhancement to the corrosion protection of high-value missile defense test & evaluation facilities, equipment and components. DESCRIPTION: Missile defense test programs require the placement and utilization of test assets at remote austere facilities. Research and development in improved methods for extended-life corr ...

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