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1. MDA11-T001: Develop Accelerated High Power RF MEMs Switch and Phase Shifter Reliability Test Methodologies

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: This topic seeks to identify and develop high-power Radio Frequency Micro Electro-Mechanical Systems (RF-MEMS) accelerated reliability test methodologies to reduce technology acceptance time for switched phase shifters that utilize capacitive or contact RF MEMS switches. Currently, life testing conducted on RF MEMs switching devices requires significant time and cost due to a lack of ph ...

STTR Missile Defense Agency

2. MDA11-T002: Defect Reduction Techniques for Large Format Infrared Detector Materials

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The overall objective of this effort is to develop innovative solutions to significantly decrease the defect and dislocation sizes and densities in large format (>25 cm^2) II-VI compound semiconductor infrared detector materials. Emphasis shall be given to detectors operating in the short through mid-long wavelength regime (~10 micron cut-off). DESCRIPTION: The Missile Defense Agency ...

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3. MDA12-001: Novel Planning Algorithms for Hybrid Land and Sea Platform Sensor Coordination

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: This Topic seeks research and development of innovative planning algorithms toward improving sensor coordination of a hybrid Aegis BMD System. The result of this effort should be adaptable planning algorithms that recommend options for optimizing Ship Operating Area (SOA) toward defending a given area against a missile raid (multiple targets). Research should include, but not be limit ...

SBIR Missile Defense Agency

4. MDA12-002: Radar Waveforms to Discern Remote Object Attributes

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop signal waveform characteristics and processing algorithms that will deduce sensor-invariant attributes of a tracked object so that it can be classified, discriminated and evaluated for engagement. Physics-based approaches are sought for broadest utility and general applicability. DESCRIPTION: The Missile Defense Agency (MDA) is seeking the development of enhanced radio ...

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5. MDA12-003: 3G and 4G Communication System Interference Remediation Techniques

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: This research seeks novel algorithms and signal processing techniques that will minimize Aegis-to-3G&4G and 3G&4G-to Aegis interference. Space-time, adaptive and other approaches are sought for broadest utility and generality. DESCRIPTION: The Missile Defense Agency (MDA) is seeking the development of novel RF modulation, timing and phasing as well as orthogonal and bi-static ...

SBIR Missile Defense Agency

6. MDA12-004: Asset Pairing for Battle Management

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: To develop system optimization algorithms to enable effective fire control solutions in challenging environments. Design a procedure to task the right sensor at the right time for a selected target. DESCRIPTION: Given a diverse inventory of missile assets, as well as a sensor suite that may be able to view the target from different viewing angles, phenomenologies, accuracies and tim ...

SBIR Missile Defense Agency

7. MDA12-005: RF-IR Data Fusion for Track and Data Correlation

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: To develop new methods for multi-sensor target handover and characterization. DESCRIPTION: For radars fielded by the Missile Defense System, there is a given set of available features that were developed for acquisition, track and discrimination of targets. Similarly, for electro-optic/infrared sensors there are standard features which have been developed for acquisition, track and ...

SBIR Missile Defense Agency

8. MDA12-006: Anti-Tamper Technology for Missile Defense

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Zero Power/Ultra-Low Power X-Ray Sensors - Development of a zero power/ultra-low power x-ray sensing technology for use at the printed circuit board level or integrated circuit level, for the protection of critical technology from exploitation. DESCRIPTION: The Agency has issued a directive necessitating the protection of Critical Program Information (CPI) from unintentional t ...

SBIR Missile Defense Agency

9. MDA12-007: Techniques for Performing Warhead Characterization

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop an innovative, low cost approach to capture full-hemisphere, open-air, fragment mass, geometry and velocity information during arena and sled warhead characterization tests. DESCRIPTION: MDA is interested in developing techniques to improve the data collection, decrease the time required, and reduce the cost associated with performing ground-based warhead characterizati ...

SBIR Missile Defense Agency

10. MDA12-008: Modeling High Explosive (HE) Detonation Response and Resulting Debris/Shrapnel Generation from Submunitions Warheads

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop an innovative, low cost, approach to testing and modeling the HE submunition warhead response for hit-to-kill missile interceptors leveraging first-principle physics methodologies. Modeling of the high and low order HE response should be addressed to assess detonation probability. The selected approach must address HE response to the kinetic energy intercept as well as the m ...

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