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1. N152-081: Synthesis and Realization of Broadband Magnetic Flux Channel Antennas

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Significant advances have been made recently in the development of magnetic antennas. These antennas are magnetic duals of electric antennas, which allow them to be mounted directly on an aircraft surface. No frequency-dependent backing-cavities are required, which allows true frequency-independent operations. Flux channels in the form of magnetic rings have been shown to replace vertical elements ...

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2. N152-082: Design and Produce Millimeter Wave Dipole Chaff with High Radar Cross Section

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Current aircraft radio frequency (RF) chaff is made from aluminum coated glass filaments produced in a continuous strand and then cut to lengths that achieve the desired resonance at frequencies in the 2-18 GHz band. The filaments require a slip coating to prevent end welding of fibers when cut, and to minimize clumping when ejected. The typical chaff cartridge can contain millions of these coated ...

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3. N152-083: Synthetic Aperture Radar Approaches for Small Maritime Target Detection and Discrimination

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Traditionally SAR has been used to provide imagery of fixed structures on land. Objects moving in the scene were unfocused and generally not of value. For large vessels at sea in relatively calm conditions, some advanced focusing algorithms are able to provide high quality imagery but are not useful for small vessels with very dynamic movements. For maritime environments, the community has relied ...

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4. N152-084: Test and Certification Techniques for Autonomous Guidance and Navigation Algorithms for Navy Air Vehicle Missions

   Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

   Many advanced autonomous guidance and navigation algorithms capable of dynamic route re-planning have been developed. The application of such algorithms to Unmanned Air System (UAS) missions has remained limited. This limited application results from multiple factors; however, the greatest obstacle is airworthiness certification. The development of certification methods for these algorithms remain ...

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5. DTRA152-001: Radiation Hardened Optoelectronics for Optical Interconnects

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

With the dominance of parallel processing, the rise integrated “system on chip” (SOC) architecture, and the continuing need to handle more data more quickly, traditional electronic interconnects are reaching their practical limits. Optical data transfer has already replaced electronic data transfer in long distance applications (km) and shorter distance high bandwidth applications (m-cm) due t ...

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6. DTRA152-002: Materials Development for Enhanced X-ray Detection of Dynamic Material Events Under Fast Loading Rates

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The Defense Threat Reduction Agency’s Basic Research Program, Thrust Area 4 – Science to Defeat WMD (weapons of mass destruction), has been supporting research of hard and deeply buried targets including penetration of concretes and geological materials. With new experimental facilities that now couple high intensity and high flux x-ray capabilities with impact drivers (e.g. lasers, gas guns, ...

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7. DTRA152-003: High Performance Computing (HPC) Application Performance Prediction & Profiling Tools

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

DTRA uses High Fidelity computer codes to investigate weapon effects phenomenology and techniques for countering WMD. End to end High Fidelity simulations in support of the DTRA Agent Defeat Warfighter Capability will require calculations including multiple phenomena that occur in vastly different time scales (μs to hours). The resulting code run times will be prohibitively long without optimizat ...

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8. DTRA152-004: Instrumentation for Characterization of Fireballs, Hot Gases, & Aerosols from Defeat of Targets Containing Biological and Chemical Agents

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Testing of methods to defeat chemical and biological agents often requires scaled experiments involving rapid combustion of bio- and chemical- agent simulants. This effort will focus on the development of next-generation instrumentation for effective characterization of physical and chemical processes occurring during rapid combustion in the expanding fireball,

to provide quantitative and qualitat ...

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9. DTRA152-005: Joint Learning of Text-based Categories

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

J9CXQ has the challenge of identifying and extracting evidential information from a complex and ambiguous text. An automated extraction system is being developed that will detect and characterize categories of entities, relations, events, and topics. The extracted information will be stored in a knowledge base that will enable automatically finding patterns and searching for critical information. ...

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10. DTRA152-006: Island-mode Enhancement Strategies and Methodologies for Defense Critical Infrastructure

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The defense critical infrastructure (DCI) is the composite of DoD and non-DoD assets essential to project, support, and sustain military forces and operations worldwide. The DCI includes, but is not limited to, elements such as military bases, ballistic missile defense installations, radar sites, etc. An electromagnetic (EM) attack (nuclear electromagnetic pulse [EMP] or non-nuclear EMP [e.g., hig ...

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