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- Title (ascending)
- Open Date (descending)
- Close Date (ascending)
- Release Date (descending)

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Displaying 1 - 10 of 63 results

1. CBD15C-001: Infectious Disease Diagnostics and Differentiation of Viral vs. Bacterial Infections for Point of Care Applications

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Chemical/Biological Defense; Biomedical OBJECTIVE: To provide an easy to use human clinical diagnostic testing technology which is effective for the detection, identification and differentiation of a wide range of viral and bacterial diseases caused by endemic diseases and biological warfare agents. Capabilities sought should be rapid and highly sensitive and selective sol ...

STTR Office for Chemical and Biological DefenseDepartment of Defense

2. DLA15C-001: Detecting Counterfeit, Substandard, Nonconforming, and Improperly Processed Material

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform, Battlespace, Chemical/Biological Defense, Ground/Sea Vehicles, Human Systems, Nuclear Technology, Sensors, Space Platforms, Weapons OBJECTIVE: The Defense Logistics Agency (DLA) seeks to provide responsive, best value supplies consistently to our customers. DLA continually investigates diverse technologies which would lead to the highest level of innovation i ...

STTR Defense Logistics AgencyDepartment of Defense

3. MDA15-T001: Contextual Reasoning for Object Identification

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems, Sensors OBJECTIVE: Develop a technique to incorporate variable contextual information to aid object identification and target designation. DESCRIPTION: When dealing with well-understood threats in a clean environment, a simple formula using a previously defined set of sensor features may be adequate to identify the threat object. However, when enc ...

STTR Missile Defense AgencyDepartment of Defense

4. MDA15-T002: System of Systems Control Interactions

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: Develop and demonstrate innovative design and analysis techniques to characterize the stability and performance of a system of systems (SoS) as a function of sub-system dynamics, network structure and control/decision processes. DESCRIPTION: Seek design approaches that balance multiple sub-system network configurations and sub-system and ...

STTR Missile Defense AgencyDepartment of Defense

5. MDA15-T003: Aerospace Vehicle Signature Modeling Technologies

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform, Information Systems, Sensors OBJECTIVE: Develop computational fluid dynamics (CFD) software tools to extend modeling capabilities, including turbulence, chemically reactive flow, radiative heat transfer and acoustics, for the prediction of aerospace vehicle signature phenomenology beyond the current state of the art. DESCRIPTION: Seek CFD software tools ...

STTR Missile Defense AgencyDepartment of Defense

6. MDA15-T004: Spectral Crosstalk Reduction for Dual-band Long Wave Infrared Detectors

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, Materials/Processes, Sensors OBJECTIVE: Seeking solutions to reduce spectral crosstalk of dual-band long wave infrared (LWIR) III-V strained layer superlattice (SLS) based infrared (IR) focal plane arrays (FPA)/detectors. DESCRIPTION: Multi-color FPAs made of III-V SLS semiconductor materials have shown very promising results in recent years. Further impr ...

STTR Missile Defense AgencyDepartment of Defense

7. MDA15-T005: Gold Contaminated Solder Joint Characterization for Quantifying Risks Associated with Gold Embrittlement

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics OBJECTIVE: Develop a risk forecasting tool for quantifying the risks associated with gold-embrittled solder joints in electronic assemblies. Specifically, the model should accurately assess the likelihood of solder joint failure given specific environmental stress conditions (vibrational and thermal shock). DESCRIPTION: Circuit card assemblies (CCAs) are c ...

STTR Missile Defense AgencyDepartment of Defense

8. ST15C-001: Real-time Tabletop X-ray Nanoscope

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Electronics, Materials/Processes OBJECTIVE: Design and develop a tabletop-scale, real-time nanoscope for three-dimensional imaging with ~13 nanometer spatial resolution. DESCRIPTION: There is a critical DoD need for the development of next generation microelectronics along with the supporting metrology infrastructure for their cost-effective fabrication. Maintaining ...

STTR Defense Advanced Research Projects AgencyDepartment of Defense

9. ST15C-002: Analog Co-Processors for Complex System Simulation and Design

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems, Materials/Processes OBJECTIVE: Demonstrate that, in certain critical applications, analog processing architectures can significantly outperform the equivalent digital architectures and motivate the larger development and use of analog methods DARPA broadly in defense systems. DESCRIPTION: The efficient simulation of complex systems is of fundament ...

STTR Defense Advanced Research Projects AgencyDepartment of Defense

10. DHP15B-001: Conversion to Universal Plasma

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Demand for plasma-based therapies continues to rise. In the US alone, there were ~29 million donations of plasma in 20131. Plasma-based therapies are also in high demand in the military. Warfighters with combat casualties often require massive plasma transfusions for trauma, shock, burn injury, and emergency surgery. Today, only Type AB blood donors, who account for only 4% of the overall donor po ...

STTR Defense Health ProgramDepartment of Defense

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- Next
- Last

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