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1. SB152-001: Cell Free Platforms for Prototyping and Biomanufacturing

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

   There is a critical need for capabilities that will enable DoD to leverage the unique and powerful attributes of biology to solve challenges associated with production of new materials, novel capabilities, fuels, and medicines. This topic is focused on improving the utility of cell-free systems as a platform technology to address key technical hurdles associated with current practices in engineeri ...

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2. SB152-002: Cortical Modem Systems Integration and Packaging

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

   The DoD has a critical need for breakthrough medical therapies to treat wounded warriors with multiple comorbidities of sensory organs. This topic seeks to integrate state-of-the-art electronics, packaging, and passivation technologies with the latest low-power data and power delivery semiconductor components in a single package. In other words, DARPA seeks to wirelessly bridge cortical neural act ...

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3. SB152-003: Broadband Self-calibrated Rydberg-based RF Electric Field and Power Sensor

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

   There is a critical need for capabilities that will enable the DoD to have self-calibrated electric field and power sensors in the RF, microwave, and millimeter-wavelength regimes. This topic seeks the demonstration of a portable broadband (1 GHz – 1 THz) electric field, power sensor, or key components towards a device. The sensor should be capable of operating in greater than 1 kV/m electric fi ...

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4. SB152-004: Many-Core Acceleration of Common Graph Programming Frameworks

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

   Today there is a DoD need for graph analytics capabilities, which are critical for a large range of application domains with a vital impact on both national security and the national economy, including, among others: counter-terrorism; fraud detection; drug discovery; cyber-security; social media; logistics and supply chains; e-commerce, etc. Widely used graph development frameworks have enabled o ...

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5. SB152-005: Ovenized Inertial Micro Electro Mechanical Systems

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

There is a critical DoD need for capabilities that focus on temperature stabilization of MEMS inertial sensors to improve bias and scale factor stability. Military operations rely on satellite-based Global Positioning System (GPS) for precision Positioning, Navigation & Timing (PNT) information. However, GPS is an extremely small signal, which may be degraded due to signal interference or obstruct ...

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6. SB152-006: Compact, Configurable, Real-Time Infrared Hyperspectral Imaging System

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

There is a compelling DoD need to create a low cost, compact and reconfigurable infrared imaging spectrometer that can operate in real time, and in a variety of backgrounds and ambient conditions. Hyperspectral imaging (HSI) systems have been fielded for the detection of hazardous chemical and explosives threat materials, tag detection, friend vs. foe detection (IFF) and other defense critical sen ...

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7. SB152-008: Low Cost Expendable Launch Technology

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

There is a compelling DoD need to leverage emerging commercial entrepreneurial and defense technologies enabling lightweight, high-specific-energy liquid-rocket technology. Many established aerospace and emerging entrepreneurial companies are developing new rocket stage technologies that promise to reduce the cost of access to space. The goal of this topic is to leverage these investments to enabl ...

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8. OSD14.1-AU1: Biometrics for Human-machine Team Feedback in Autonomous Systems

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop and use biometrics that provides feedback about the status of human-machine team in autonomous systems. DESCRIPTION: Intense workload and short deadlines place a great deal of stress on warfighters applying computer systems to complete their mission. Biometric techniques show promise for detecting variatio ...

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9. OSD14.1-AU2: Evaluating the Performance and Progress of Learning-enabled Systems

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop methodology to evaluate and measure the performance and progress for learning enabled systems. DESCRIPTION: A long term goal of machine learning is to develop systems that learn complex behaviors with minimal human oversight. However, future systems that incorporate learning strategies will not necessarily ...

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10. OSD14.1-AU3: Evaluating Mixed Human/Robot Team Performance

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop methodology to evaluate mixed human/robot team performance DESCRIPTION: Introducing robotic assets to a military or civilian unit should increase the level of performance for the team. We evaluate human teams by scoring their performance on specific tasks; they can be a single score for the team, or an aggr ...

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