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1. A152-090: Linear Inflow Model Synthesis for Advanced Rotorcraft Configurations

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

Current linear rotorcraft flight dynamics models are dependent on finite-state inflow theory based on potential flow modeling at the rotor plane [1]. These inflow models have few parameters and are readily available in linear state-space form, making them easy to implement in flight dynamic models for stability assessment and control system design studies. These types of models have been developed ...

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2. A152-091: Innovative Motion Measurement Package (M2P) for Guided and Un-Guided Munitions

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

Performance of future munitions are dependent upon the accurate estimation of the airframe’s angular motion, acceleration about each axis, velocity and roll position relative to up. The M2P will reside within the munition airframe and measure actual projectile/airframe properties, which can be used by the munitions guidance package and/or fuzing system. The M2P technology can utilize conventiona ...

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3. A152-092: Enhanced Analysis for Pulsed Voltammetry Evaluation Tool / System for Improved Power Systems

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

In order to develop new high-performance batteries, fuel cells, and sensors, the electrochemical behavior of materials and devices need to be quantitatively assessed. This assessment (models and systems characterization) will help identify the performance of electrochemical systems leading to the development of significantly improved power sources. New electrochemical analysis tools will enable be ...

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4. A152-093: Techniques for Wire Recognition using mmW

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

Rotorcraft landing and takeoff is dangerous in environments where obstacles, particularly wires or power lines exist, and pilot vision is degraded by obscurants such as dust, smoke, fog, rain and snow. This SBIR would focus on a radar solution to detecting wires and power cables when landing in a visually degraded environment. Existing data for wires and power lines with millimeter wave radars pro ...

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5. A152-095: Avian Vision Processing

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

Birds of prey, also known as raptors, are birds that hunt or feed on other animals. They are characterized by keen vision that allows them to detect prey during flight. Since vision is the most important sense for birds, and good eyesight is essential for safe flight, this group has a number of adaptations which give visual acuity superior to that of other vertebrate groups. The objective of this ...

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6. A152-096: Advanced Coordinated Control, Formation Flying for Nano-Satellite Applications

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

The focus and priority of this topic is seeking innovative space-based remote sensor capabilities supporting all-weather, day-night imaging capability. Preliminary research assessments highlight the availability of next generation device/component technologies and outline novel approaches for creating flotillas, swarms, and/or formations of nano-satellites with multi-faceted functions and sensor c ...

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7. A152-097: Underbody Blast, Crash and Rollover Interior Impact Injury Prevention Technologies

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

Non-traditional interior roof military vehicle impact injury prevention technologies address the challenge to provide warfighter survivability, allowing them to complete their mission, by preventing impact related injuries such as skull fractures and neck injuries, otherwise incurred during underbody blast, crash and rollover events. The solution accounts for the full range of occupants to include ...

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8. A152-098: Variable Energy Ignition System for Heavy Fuel Rotary Engine

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

There currently is a shortcoming for heavy fuel engines that have a rated power below 100 BHP that are compatible with both JP-8 and DF-2, have high power to weight and power to volume density, provide good fuel consumption characteristics, and operate over extreme climatic ranges ranging from below -25 F to 125 F ambient. One developing technology that could potentially fit this niche market are ...

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9. A152-100: Low Cost, Low Temperature Processing, High Use Temperature Composite Material

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

There is an emphasis on lightweight systems; however, many armament systems have use-temperatures that exceed traditional organic, composite systems. Specialty polymers can extend the range to 700F, but are expensive and hard to process. High-use temperature composites include pre-ceramic polymers, ceramic matrix and metal matrix composites. All of these are expensive and hard to process. This eff ...

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10. 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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