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1. N11A-T001: Automated Human and System Performance Assessment in Operational Environments

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

   OBJECTIVE: Develop a self contained deployable system to automatically quantify combined human and systems performance in real-time and for after-action-review by fusing output of normative models of behavior, human state, system state, and contextual situation state. DESCRIPTION: Complex weapons systems require years of training for crews to master all aspects of the system, the situations ...

   STTR Navy

2. N11A-T002: Compact Radar Technology For Over the Horizon Small-Boat and Semi-Submersible Detection and Tracking

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

   OBJECTIVE: Develop a compact multi-input, multi-output Ka-band radar system to provide over-the-horizon maritime target detection and tracking utilizing evaporation duct propagation. DESCRIPTION: The long-range detection, tracking, and classification of maritime surface contacts including detection and discrimination of small targets such as periscope masts is an essential Naval capability. Lon ...

   STTR Navy

3. N11A-T003: Plasmonic Enhancement of Receiver Circuits for Energy Harvesting

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

   OBJECTIVE: Develop novel solutions for plasmonic field enhancement of receiver circuits for energy harvesting applications. DESCRIPTION: Plasmonic field enhancement is now a viable technological tool. It is used extensively in enhancing the sensitivity of a number of spectroscopic techniques. Surface enhanced Raman spectroscopy and spectroscopy depending on Stark effect are key examples. It a ...

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4. N11A-T004: High Resolution Measurement of the Flow Velocity Field in a Supersonic Jet Plume

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

   OBJECTIVE: Develop a non-invasive (non-seeded) approach to measure the unsteady, 3-D velocity field of a supersonic jet plume for a stationary aircraft. Looking also to make high resolution, time resolved measurements of the turbulent flow field for Short Take-Off/Vertical Landing (STOVL) aircraft with both subsonic and supersonic flow regions. DESCRIPTION: Modern supersonic jet aircraft engin ...

   STTR Navy

5. N11A-T005: Modeling of pulse propagation in a four level atomic medium for gyroscopic measurements

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

OBJECTIVE: Develop robust, versatile and computationally efficient models for an as yet not designed gyroscope based on a four level N-scheme atomic system and a bidirectional ring resonator. DESCRIPTION: It has long been known since the pioneering work of Sagnac that light can be a utilized to perform interferometrically sensitive measurements of rotation. If one considers a ring cavity rotati ...

STTR Navy

6. N11A-T006: Advanced Thin-film Battery Development

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

OBJECTIVE: Develop novel light weight high efficiency thin-film batteries for use in Unmanned Autonomous Vehicles (UAVs), remote sensors, expendables, energy harvesting and in"wearable"flexible electronics. DESCRIPTION: Energy harvesting is important for distributed networks used in remote sensors, perimeter protection, intruder alerts and for widespread monitoring of bio-threats. Most energy ...

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7. N11A-T007: Modeling to Quantify Improved Durability of Superfinish Gear Processing

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

OBJECTIVE: Develop physics based gear health models to quantify the benefit of superfinish over conventional gear processing techniques with regard to pitting, spalling and tooth bending fatigue failure modes. DESCRIPTION: Superfinish processed gears have demonstrated improved performance and durability over conventionally processed gears. However, this improvement has not been quantified. ...

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8. N11A-T008: Modeling Tools for the Development of Innovative Wavelength Division Multiplexed (WDM) Local Area Networks (LAN)

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

OBJECTIVE: Develop and demonstrate innovative analysis, modeling, and optimization tools and approaches that can characterize the complex interactions between optical network components. DESCRIPTION: Single-mode optical fiber based dense wavelength division multiplexing (DWDM) optical networks are well established as a leading solution for data

communication links for commercial long distance t ...

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9. N11A-T009: High Density, High Efficiency Electrical Power Generation System for UAS Applications

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

OBJECTIVE: Develop a high-density, high-efficiency aircraft electrical power generation system with the goal of optimizing heat load, output power, size, and/or weight of future power generation systems. DESCRIPTION: Electrical power generation systems have inherent inefficiencies due to electrical and mechanical loss mechanisms. New technologies are sought to increase the power density and eff ...

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10. N11A-T010: High Fidelity Helicopter Lag Damper Model for Comprehensive Rotor Analysis

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

OBJECTIVE: Develop an experimentally validated high fidelity nonlinear lag damper model that accurately predicts behavior of passive and semi-active or active lag dampers for a range of temperatures, amplitudes, and frequency range, for implementation into a comprehensive rotorcraft analysis system for rotor loads prediction. DESCRIPTION: The use of a Health and Usage Monitoring System (HUMS) f ...

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