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1. AF13-AT01: Multiphysics-based Sensor Fusion

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: To develop new multiphysics-based sensor fusion algorithms which map disparate sensor fields into a single common multiphysics-based representation. This model can then be used to produce higher quality sensor fusion data products. DESCRIPTION: The proliferation of sensor systems has created a large volume of multi-sensor data across a number of physical fields (e.g., optical, EO/I ...

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2. AF13-AT02: Decision Making under Uncertainty for Dynamic Spectrum Access

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Research, develop, and evaluate algorithms and technologies for Dynamic Spectrum Access (DSA) decision making under uncertainty. DESCRIPTION: Dynamic Spectrum Access (DSA) is emerging as one of the key technologies to enable the Department of Defense (DoD) to meet its increasing requirements for access to the electromagnetic spectrum [1]. DSA technologies seek to provide reliable, ...

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3. AF13-AT03: Development of high power wavelength division multiplexers

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: To advance the power handling capability of Wavelength Division Multiplexers (WDM) in both PM and non-PM fiber. DESCRIPTION: Separate fibers into the core of a single fiber. The WDM works by first collimating the light from each fiber. The collimated beams, which are combined using a dichroic filter, are then focused into the output fiber. The WDM can also be run in reverse and ...

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4. AF13-AT04: Nonequilibrium Plasma-Assisted Combustion-Efficiency Control in Vitiated Air

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: To investigate electrical control of selective energy deposition for significant modification of combustion kinetics through nonequilibrium thermochemistry and induced flow. DESCRIPTION: Combustion efficiency, reignition and flame holding are important issues for both very high-altitude and high-speed flights. High-altitude jet engine operation is limited by the overall combustion ...

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5. AF13-AT05: Security in Cyber-Physical Networked Systems

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Investigate challenging security issues in Cyber-Physical Networked Systems. DESCRIPTION: A cyber-physical system (CPS) is a system featuring a tight combination of, and coordination between, the system"s computational and physical elements. Today, a pre-cursor generation of cyber-physical systems can be found in areas as diverse as emerging and future combat systems, air-space-cyb ...

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6. AF13-AT06: High specific power and cost effective solar array for spacecraft, lighter than air vehicles, and UAVs

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Develop and demonstrate a 2 100 W radiation hardened solar array adaptable to nanosatellites exhibiting flexibility, variable topology, high specific power and low cost. DESCRIPTION: Satellite power systems designs are trending towards"the large as possible"types of satellites with power system mass allocations of approximately 200 kg down to nanosatellites with volume constraints ...

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7. AF13-AT07: Compact Pulsed Power Source for High Repetition Rate Applications

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: To develop a high power, nanosecond power source that operates continuously at a high repetition rate for propulsion, directed energy, and energy production systems. DESCRIPTION: High peak power, nanosecond pulsed power sources are a enabling technology for a wide number of applications. Performance gains occur for a number of reasons depending on the application. Examples include: ...

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8. AF13-AT08: Secure Efficient Cross-domain Protocols

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Develop cross-domain protocols and design methodologies to enable distributed applications to operate securely when split between two security domains. DESCRIPTION: Coordination of activities between different security domains remains a thorny and yet crucial problem. Cross domain data flows impeded by time-consuming release procedures prevent fluid and effective operations. The si ...

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9. AF13-AT09: Microvascular Composites for Novel Thermal Management Devices

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: To develop high-performance thermal management devices based on multifunctional design of microvascular composite materials and thereby to allow a precision control of the network passages tailored to specific cooling applications. DESCRIPTION: Compact, efficient heat exchangers enable improved operation of many thermal management devices such as Joule-Thomson (J-T) coolers. Most ...

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10. AF13-AT10: Next Generation Tracking Architectures for Urban Surveillance Areas

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Develop and implement next generation tracking architectures which exploit wide area motion imagery and leverage projected High Performance Computing capacities. DESCRIPTION: Wide area motion imagery (WAMI) systems, such as the Autonomous Real-time Ground Ubiquitous Surveillance - Imaging System (ARGUS-IS), produce tens of thousands of moving target indicator (MTI) detections from ...

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