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1. 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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2. 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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3. 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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4. OSD14.1-AU4: Safety Testing for Autonomous Systems in Simulation

   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: The Army is interested in adding autonomy to its vehicle convoys [1], but how can we certify that these autonomous algorithms are safe? Currently, live testing of full vehicle systems is the only acceptable method, but even after hundreds of hours of successful live testing, a single hidden failure point in the algor ...

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5. OSD14.1-AU5: Distributed Visual Surveillance for Unmanned Ground Vehicles

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 a system to identify, classify, and analyze visual data from unmanned ground vehicles and stationary visual surveillance sources to enable real-time on-board decisions and system-wide planning regarding route, speed, and tasks. DESCRIPTION: Distributed visual surveillance has a major role in the future of ...

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6. OSD14.1-IA1: Obfuscation to Thwart Un-Trusted Hardware

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

OBJECTIVE: To develop innovative methods for mutating or obfuscating the processes of network security appliances or tactical communication systems. To make the path of the processes and data through hardware non deterministic, thereby thwarting any supply chain attacks that rely on the deterministic nature of computing to exfiltrate data and compromise operations. To mask the data and processes s ...

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7. OSD14.1-IA2: Detecting Malicious Circuits in IP-Core

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

OBJECTIVE: Develop technologies and tools for detecting potential malicious/backdoor logics in hardware IP-core, toward reducing supply-chain vulnerability in embedded computing and system on chip environment. DESCRIPTION: This topic solicits the development of technologies and tools which perform analysis on gate-level netlist of hardware IP-core to identify potentially malicious wires and log ...

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8. OSD13-C01: Integrated Computational Materials Engineering in Multiphysics Software

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: The objective of this research is to demonstrate a spatially-dependent calculation of detailed microstructural evolution (e.g., grain structure, texture, precipitation kinetics, phase transformations, etc.) in the modeling of processing of a structural material ultimately providing or enhancing commercial multiphysics software (e.g., general multiphysics or specialized for welding, for ...

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9. OSD13-C02: A Semantic Technology for Materials Design and Development

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate the foundational elements required to create a semantic technology for materials design and development. DESCRIPTION: Several foundational elements required to achieve Sir Tim Berners-Lee"s vision for a semantic web are in place and available to the materials community. The semantic web, sometimes referred to as the web-of-data, focuses on ontologies as well ...

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10. OSD13-C03: Making Practical Use of Electromagnetic Fields in Materials Processing and Applications

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop predictive computational models/tools to exploit the effect of electromagnetic fields in materials processing that enables tailored polycrystalline microstructures, enhanced properties, and shortened materials development cycles beyond the current state-of-the-art. DESCRIPTION: The Army is interested in applying external physics-based fields during the processing of materia ...

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