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Displaying 1 - 10 of 129 results

1. OSD153-001: System Architecture Recovery and Analysis (SARA)

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information SystemThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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2. OSD153-002: Cyber Deception for Network Defense

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information SystemsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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3. OSD153-003: Next-Generation Secured Mobile Devices for Mobile, Tactical

Environments

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information SystemsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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4. OSD153-004: Moving Target Defense

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information SystemsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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5. OSD153-005: High-Assurance Cyber-Physical Systems

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: To define threat models; develop and prototype novel, resilient architectures, tools, and techniques to mitigate threats to cyber-physical system. To develop modeling and simulation tools that consider the safety and correctness constraints of the physical systems and the interaction with the digital components. DESCRIPTION: Cyber-physic ...

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6. 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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7. 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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8. 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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9. 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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10. 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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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- …
- Next
- Last

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