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## 1. 9.01: Cyber-Physical Systems

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Residential Heat Pump Fault Detection and Diagnostic Datalogger 9.01 DOC SBIR 2014-NIST-SBIR-01 ...

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## 2. 9.01.01.73-R : Residential Heat Pump Fault Detection and Diagnostic Datalogger

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

A low cost, modular system for monitoring and controlling a process or environment is applicable to a wide variety of commercial and consumer-based endeavors. The ability to measure a quantity and then affect a change to control that quantity, or a related quantity, is highly desirable in an innumerable number of scenarios whether it be on the manufacturing plant floor or even within the home. Thi ...

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## 3. 9.02: Cybersecurity

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date:

05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Cryptographic Acceleration for Border Gateway Protocol Security (BGPSEC) Privacy Preserving Tools for Federated Authentication Models Secure Email Agent Using the Domain Name System (DNS) as a Trust Infrastructure Silicon Single ...

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**4.** 9.02.01.77-R : Cryptographic Acceleration for Border Gateway Protocol Security (BGPSEC)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The Border Gateway Protocol (BGP) was initially developed in 1989 (RFC 1105 [1]) and last refined in 2006 to its current version BGP-4 (RFC 4271 [2]). Because the protocol itself does not provide any notion of security, more and more successful attacks against the protocol have been witnessed in recent years [3][4]. The Internet Engineering Taskforce (IETF) is currently developing two mechanisms w ...

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**5.** 9.02.02.77-R : Privacy Preserving Tools for Federated Authentication Models

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Legacy Internet communication protocols were designed for secure communication in the Dolev-Yao model. This model consists of two communicating parties and an adversary who can overhear, intercept, and synthesize any message. In this paradigm, the legitimate communicating parties only send messages to each other. No messages are sent to the third party, who is an adversary intent on preventing the ...

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**6.** 9.02.03.77-R : Secure Email Agent Using the Domain Name System (DNS) as a Trust Infrastructure

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Email is widely used for Internet communication both in dialogs between people and one-way messaging and notification systems (e.g., Email from your bank noting a deposit). However, email is inherently insecure and often spoofed by attackers looking to impersonate another user, or institution, in order to trick a victim to download malware or view a malicious site. This type of attack (often calle ...

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**7.** 9.02.04.68-R : Silicon Single-Photon Avalanche Diodes with Detection Efficiency that Exceeds 95 %

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Recent advances in quantum communications and quantum random number generation have identified the critical need for detectors with single-photon detection efficiency above bounds that are determined by information theory. Additional losses in any preceding optical components require that the efficiency of the subsequent detectors be even higher. Devices of this type may be used in verifiable rand ...

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**8.** 9.03: Health Care

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Instrument to Detect Aerosolized-Droplet Dose Delivery of Vaccines Production of NIST/UCSF Breast Phantom for Magnetic Resonance Imaging (MRI) 9.03 DOC SBIR 2014-NIST-SBIR-01 ...

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**9.** 9.03.01.63-R : Instrument to Detect Aerosolized-Droplet Dose Delivery of Vaccines

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Delivery of aerosolized drugs through the pulmonary system has received much attention in recent years for addressing a variety of health issues – in particular the delivery of vaccines. Higher costs and increased chemical toxicity of drugs under consideration are requiring more stringent dose delivery criteria, and thus has affected inhaler design and development. Little quantitative inform ...

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**10.** 9.03.02.68-R : Production of NIST/UCSF Breast Phantom for Magnetic Resonance Imaging (MRI)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

NIST, in conjunction with University of California San Francisco (UCSF), has designed a breast phantom for quantitative magnetic resonance imaging (MRI), specific to American College of Radiology Imaging Network (ACRIN) trial 6698. A phantom is an inanimate structure used to calibrate and test MRI scanners, coils, and their operating protocols. The initial design has received interest from researc ...

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