

volume 5 • number 5 • November 15th, 2012 Newsletter

National Technical Reports Library

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ADA373460

Travel Support for the Thirteenth Annual IFIP WG

11.3 Conference on Database Security. Tulsa Univ., OK. Dept. of Mathematics and Computer Science.

2000, 4p

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) Keywords: Databases, Data processing security, Data management.

nletter

National Technical Reports Library Purpose: To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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ADA542740

ESD 1976 Computer Security Developments Summary.

Electronic Systems Div., Hanscom AFB, MA. 1977, 46p

MCI-76-2

Related Categories/Sub-Categories:

62D (Information Processing Standards) Keywords: Data processing security, Secure communications, Classified materials.

ADA542784

Satin Computer Security. MITRE Corp., Bedford, MA. 1972, 28p **Related Categories/Sub-Categories:**

62D (Information Processing Standards) Keywords: Data processing security, Countermeasures, Memory devices.

AD761807

Access Control Models. Harvard Univ. Cambridge, Mass., Center for Research in Computing Technology 1973, 184p ESD-TR-73-106 **Related Categories/Sub-Categories:** 62B (Computer Software) Keywords: Data processing systems, Networks, Programming (Computers).

AD771758

Encapsulation: An Approach to Operating System Security.

University of Southern California Marina Del Rey Information Sciences Inst. 1973, 19p ISI/RR-73-17 **Related Categories/Sub-Categories:** 62B (Computer Software), 45 (Communication)

Keywords: Computer programs, Protection, Encapsulation.

Cybersecurity



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AD770768

Secure Computer Systems: Mathematical Foundations. Mitre Corp Bedford Mass. 1973,40p ESD-TR-73-278-VOL-1 **Related Categories/Sub-Categories:** 62B (Computer Software)

Keywords: Computers, Security, Systems analysis.

ADA039324

Integrity Considerations for Secure Computer Systems. Mitre Corp Bedford Mass. 1977,68p ESD-TR-76-372 **Related Categories/Sub-Categories:**

62A (Computer Hardware), 62B (Computer Software)

Keywords: Data processing security, Data management, Databases.

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ADA108831

Specification of a Trusted Computing Base (TCB). MITRE Corp., Bedford, MA. 1979, 28p M79-228

Related Categories/Sub-Categories:

62B (Computer Software), 62A (Computer Hardware), 88B (Information Systems) Keywords: Data processing security, Computers, Computer architecture.

ADA443271

Cybersecurity Considerations for Information Systems. Naval Postgraduate School, Monterey, CA. Dept. of

Computer Science. 2005, 16p

Related Categories/Sub-Categories:

62D (Information Processing Standards) Keywords: Information systems, Secure communications, Information security.

ADA458008

State of the Art in CyberSecurity Monitoring. MITRE Corp., Bedford, MA.

2000, 36p MP-99B0000020R1

Related Categories/Sub-Categories:

62B (Computer Software) 62 (Computers, Control & Information Theory) 62D (Information Processing Standards) Keywords: Computer programs, Data processing security, Computer networks.

Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

- NTIS Order Number
- Title
- Source
- Report Year, Page Count
- Report Number/ISBN13 (if available)
- Related Categories/Sub-categories (where the document is also indexed)
- Keywords

RSS Feeds are available in your choice of NTIS Subject Category. For information use the RSS link on the NTIS Homepage and look for the Category RSS Feeds button.

ADA463076

Creating a National Framework for Cybersecurity: An Analysis of Issues and Options.

Congressional Research Service, Washington, DC. 2005,61p CRS-RL32777

Related Categories/Sub-Categories: 92 (Behavior & Society)

62D (Information Processing Standards) 74G (Military Operations, Strategy, & Tactics) 63B (Electromagnetic & Acoustic Countermeasures) Keywords: Policies, United States Government, Countermeasures.

ADA465099

State of the Art in CyberSecurity Monitoring: A Supplement.

Mitre Corp Bedford MA Center for Integrated Intelligence Systems. 2001, 18p MP-9980000020R1SUPP2 **Related Categories/Sub-Categories:** 88B (Information Systems)

62D (Information Processing Standards) 74E (Logistics, Military Facilities, & Supplies) Keywords: Computer programs, Information systems, State of the art.

ADA465101

CyberSecurity Monitoring Tools and Projects: A Compendium of Commercial and Government Tools and Government Research Projects. Mitre Corp Bedford MA Center for Integrated Intelligence Systems. 2000, 128p MP-00B0000018R3

Related Categories/Sub-Categories: 88B (Information Systems)

62D (Information Processing Standards) 62 (Computers, Control & Information Theory) 74E (Logistics, Military Facilities, & Supplies) Keywords: Computer programs, United States Government, Monitoring.

ADA465102

State of the Art in CyberSecurity Monitoring: An Update.

Mitre Corp Bedford MA Center for Integrated Intelligence Systems. 2000, 22p

MP-99B0000020R1SUPP1

Related Categories/Sub-Categories: 88B (Information Systems)

62 (Computers, Control & Information Theory) 62D (Information Processing Standards) 74E (Logistics, Military Facilities, & Supplies) Keywords: Computer programs, Information systems, State of the art.

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ADA466069

Issues and Requirements for Cybersecurity in Network Centric Warfare.

Air Force Research Lab., Wright-Patterson AFB, OH. 2004, 36p

Related Categories/Sub-Categories:

62B (Computer Software) 62D (Information Processing Standards) Keywords: Computer programs, Data processing security, Computer networks.

ADA495414

Comprehensive National Cybersecurity Initiative: Legal Authorities and Policy Considerations.

Congressional Research Service, Washington, DC. 2009, 22p CRS-R40427

Related Categories/Sub-Categories:

92 (Behavior & Society) 62 (Computers, Control & Information Theory) Keywords: Computer networks, Intrusion detection (Computers), United States Government.

ADA508928

Cybersecurity: Current Legislation, Executive Branch Initiatives, and Options for Congress. Congressional Research Service, Washington, DC. 2009, 27p

Related Categories/Sub-Categories:

62D (Information Processing Standards) 92 (Behavior & Society) 92C (Social Concerns) 62 (Computers, Control & Information Theory), 74 (Military Sciences) Keywords: Electronic warfare, Policies, United States Government.

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Attention NTRL V3.0 Subscribers – The NTRL V3.0 Subscriber Survey 2012 is an ongoing initiative to capture your feedback and comments regarding our service. Because we understand how busy you are, we've limited the survey to 5 questions with an approximate completion time of 3 minutes. If you have not already done so, we encourage all subscribers and end-users to complete the survey. Invitations to the survey are conveniently launched automatically from the NTRL homepage (https://ntrl.ntis.gov).

If you have already completed the survey (and many of you have) we greatly appreciate your participation.

A few of the survey comments submitted thus far are:

- "I like the refine features that enable the search to refine by author organization, keywords, topics, etc."
- "It is easy to search, good authoritative information."
- "Can find tech reports from many agencies in one place rather than browsing/searching the web for individual agencies."

Major Subject Categories

Category Codes*/Title

New for October Quantity**

41	Manufacturing Technology					
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	cope Notes define the specific topical content for each category;					
	http://www.ntis.gov/pdf/scopenotes.pdf					
	** Quantities represent each new report assigned on average to 3-5 categories.					

ADA516401

CYBERSECURITY: Continued Efforts Are Needed to Protect Information Systems From Evolving Threats.

General Accounting Office, Washington, DC. 2009, 25p GAO-10-230T

Related Categories/Sub-Categories:

88B (Information Systems) 62B (Computer Software) 92C (Social Concerns) Keywords: Computer applications, Information security, Information systems.

ADA516403

NATIONAL CYBERSECURITY STRATEGY: Key Improvements Are Needed to Strengthen the Nation's Posture.

General Accounting Office, Washington, DC. 2009, 19p GAO-09-432T

Related Categories/Sub-Categories:

92 (Behavior & Society) 92C (Social Concerns) 62B (Computer Software) Keywords: Homeland security, Computer applications, Criminology.

ADA517364

Comprehensive National Cybersecurity Initiative. Executive Office of the President, Washington, DC. 2010, 6p

Related Categories/Sub-Categories:

92 (Behavior & Society) 62 (Computers, Control & Information Theory) Keywords: Information security, National security, United States Government.

ADA529806

Roadmap for Cybersecurity Research. Russian Academy of Sciences, Lebedev. Physical Inst. 2009, 127p

Related Categories/Sub-Categories:

62D (Information Processing Standards) Keywords: Cyberterrorism, Research management, Data processing.

Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more. volume 5 • number 5 • November 15th, 2012

ADA537055

CERT Approach to Cybersecurity Workforce Development.

Carnegie-Mellon Univ., Pittsburgh, PA. Software Engineering Inst. 2010, 19p

Related Categories/Sub-Categories:

70D (Personnel Management, Labor Relations & Manpower Studies) 88D (Personnel) 92A (Job Training & Career Development)

62 (Computers, Control & Information Theory) Keywords: Personnel development, Cybernetics, Training.

ADA547075

Coordinated Cybersecurity Incident Handling: Roles, Processes, and Coordination Networks for Crosscutting Incidents.

Johns Hopkins Univ., Laurel, MD. Applied Physics Lab.

2011, 50p

Related Categories/Sub-Categories:

62D (Information Processing Standards) 62 (Computers, Control & Information Theory) 45C (Common Carrier & Satellite) Keywords: Computer network security, Cybernetics, Security.

ADA554978

Robotics Research for Cybersecurity.

University of Southern California, Marina del Rey. 2012, 4p

Related Categories/Sub-Categories:

62D (Information Processing Standards) 62 (Computers, Control & Information Theory) 74G (Military Operations, Strategy, & Tactics) Keywords: Air Force research, Artificial intelligence, Cyberwarfare.

DE2008918599

Cybersecurity and User Accountability in the C-AD Control System.

Brookhaven National Lab., Upton, NY. 2007, 5p BNI -77911-2007

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 46 (Physics) Keywords: Computer security, Procedures, Authentication.

Photo: Architect of the Capitol



DE2008920351

Efficient Analysis of Live and Historical Streaming Data and Its Application to Cybersecurity.

Lawrence Berkeley National Lab., CA.**California Univ., Berkeley. Computer Science Div. 2007, 21p LBNL—61080

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) Keywords: Cybersecurity, Stream query, Archival data.

DE2008923678

Transforming CyberSecurity R&D within the Department of Energy: Getting Ahead of The Threat.

Pacific Northwest National Lab., Richland, WA. Argonne National Lab., IL. Oak Ridge National Lab., TN. Sandia National Labs., Albuquerque, NM. Los Alamos National Lab., NM. 2008, 32p PNNL-17263

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 70E (Research Program Administration & Technology Transfer) Keywords: Computer security, Research and development, US DOE.

DE2010978289

Cybersecurity through Real-Time Distributed Control Systems.

Oak Ridge National Lab., TN. 2010, 45p ORNL/TM-2010/30 Related Categories/Sub-C

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 88B (Information Systems) Keywords: Computer security, Security metrics, Communications vulnerabilities.

DE2010992337

Assessment of Current Cybersecurity Practices in the Public Domain: Cyber Indications and Warnings Domain.

Sandia National Labs., Albuquerque, NM. 2010, 53p

SAND2010-4765

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 62D (Information Processing Standards) Keywords: Computer security, Computer networks, Security measures.

PB2004105536

Technology Assessment: Cybersecurity for Critical Infrastructure Protection.

General Accounting Office, Washington, DC. 2004, 223p GAO-04-321

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 45C (Common Carrier & Satellite) Keywords: Computer security, Technology assessment, Congressional reports.



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PB2005104678

Cybersecurity of Freight Information Systems. A Scoping Study.

National Research Council, Washington, DC. Computer Science and Telecommunications Board. 2003, 102p

TRB/SR-274

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 88B (Information Systems) 70B (Management Practice) 91B (Transportation & Traffic Planning) 43G (Transportation) Keywords: Information systems, Freight transportation, Information technology.

PB2005106864

Critical Infrastructure Protection: Department of Homeland Security Faces Challenges in Fulfilling Cybersecurity Responsibilities.

Government Accountability Office, Washington, DC.

2005, 82p GAO-05-434

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 45C (Common Carrier & Satellite) Keywords: Computer security, Technology assessment, Technologies.

PB2007105660

Information Security: Emerging Cybersecurity Issues Threaten Federal Information Systems. General Accounting Office, Washington, DC. 2005, 79p GAO-05-231

Related Categories/Sub-Categories:

62D (Information Processing Standards) 70F (Public Administration & Government) Keywords: Information systems, Information security, Federal government.

PB2009108594

Comprehensive National Cybersecurity Initiative: Legal Authorities and Policy Considerations, March 10, 2009.

Congressional Research Service, Washington, DC. 2009, 21p

R40427

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 45C (Common Carrier & Satellite) Keywords: Computer networks, Information security, Legal aspects.

ADA563730

Increasing Effectiveness of U.S. Counterintelligence: Domestic and International Micro-Restructuring Initiatives to Mitigate Cvberespionage.

Naval Postgraduate School, Monterey, CA. 2012, 137p

Related Categories/Sub-Categories:

74G (Military Operations, Strategy, & Tactics) Keywords: Counterintelligence, Cyberterrorism, Domestic.

ADA563835

Son of SPECOPS: Rethinking the Nature and Operationalization of Cyberspace.

Naval War Coll., Newport, Rl. Joint Military Operations Dept. 2012,28p

Related Categories/Sub-Categories:

70B (Management Practice) 74G (Military Operations, Strategy, & Tactics) 45C (Common Carrier & Satellite) Keywords: Command and control systems, Cyberterrorism, Cyberwarfare.

ADA556156

End-to-End Service Oriented Architectures (SOA) Security Project.

Purdue Univ., West Lafayette, IN. 2012, 50p

Related Categories/Sub-Categories:

62D (Information Processing Standards) Keywords: Computer network security, Integration, Threats.

ADA556335

DoD Information Technology Modernization: A Recommended Approach to Data Center Consolidation and Cloud Computing. Defense Business Board, Washington, DC. 2012, 28p

Related Categories/Sub-Categories:

88B (Information Systems) 62 (Computers, Control & Information Theory) 74 (Military Sciences) Keywords: Client server systems, Cloud computing, Computer networks.

ADA558865

Secure and Efficient Network Fault Localization.

Carnegie-Mellon Univ., Pittsburgh, PA. School of Computer Science. 2012, 188p CMU-CS-12-104 **Related Categories/Sub-Categories:**

62 (Computers, Control & Information Theory) Keywords: Computer networks, Accountability, Computer network security.

ADA560633

What's My Lane. Identifying the State Government Role in Critical Infrastructure Protection.

Naval Postgraduate School, Monterey, CA. Dept. of National Security Affairs. 2012, 153p

Related Categories/Sub-Categories:

92 (Behavior & Society) 911 (Emergency Services & Planning) Keywords: Department of defense, Homeland security, Infrastructure.

PB2011101269

DHS Needs to Improve the Security Posture of Its Cybersecurity Program Systems.

Department of Homeland Security, Washington, DC. Office of Inspector General. 2010, 35p DHS-OIG-10-111

Related Categories/Sub-Categories:

70F (Public Administration & Government) 62 (Computers, Control & Information Theory) Keywords: Department of Homeland Security, Computer security, Management planning and control.

PB2011104473

Electricity Grid Modernization: Progress Being Made on Cybersecurity Guidelines, but Key Challenges Remain to be Addressed. Government Accountability Office, Washington, DC. 2011, 50p

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 97E (Electric Power Transmission) Keywords: Cyber security, Electric power distribution, Smart grids.

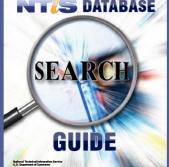
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ADA542210

Creating a Network Model for the Integration of a Dynamic and Static Supervisory Control and Data Acquisition (SCADA) Test Environment.

Air Force Inst. of Tech., Wright-Patterson AFB OH. School of Engineering and Management. 2011, 131p.

Related Categories/Sub-Categories: 88B (Information Systems), 46 (Physics)

Keywords: Data acquisition, Synchronization(Electronics), Control.

DE20111030885

Secure Data Transfer Guidance for Industrial Control and SCADA Systems.

Pacific Northwest National Lab., Richland, WA. 2011, 37p PNNL-20776

Related Categories/Sub-Categories:

62C (Control Systems & Control Theory) 45C (Common Carrier & Satellite) 97B (Energy Use, Supply, & Demand) 97E (Electric Power Transmission) Keywords: Control systems, Computer networks, Electric power distribution systems.

ADA546439

Stuxnet: Cyberwar Revolution in Military Affairs. Military Academy, West Point, NY. 2011, 11p

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory), 77 (Nuclear Science & Technology) 74 (Military Sciences) Keywords: Cyberwarfare, Reprints, Industrial equipment.

PB2011106310

Stuxnet Computer Worm: Harbinger of an

Emerging Warfare Capability. Congressional Research Service, Washington, DC. 2010, 12p CRS-R41524

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 74 (Military Sciences) Keywords: Computer viruses, Information security, Warfare.

PB2011112177

Guide to Industrial Control Systems (ICS) Security. Supervisory Control and Data Acquisition (SCADA) Systems, Distributed Control Systems (DCS), and other Control System Configurations such as Programmable Logic Controllers (PLC). Recommendations of the National Institute of Standardsand Technology.

National Inst. of Standards and Technology (ITL), Gaithersburg, MD. Computer Security Div. 2011, 155p

NIST/SP-800-82

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 94 (Industrial & Mechanical Engineering) Keywords: Control systems, Computer security, Intelligent systems.

ADA536855

Workshop on Scientific Analysis and Policy in Network Security.

European Office of Aerospace Research and Development, FPO New York 09510. 2010, 359p LNCS-6258 **Related Categories/Sub-Categories:**

62 (Computers, Control & Information Theory) 62D (Information Processing Standards) Keywords: Computer networks, Information security, Russia.

ADA556564

Cyberciege Traffic Analysis Extension for Teaching Network Security.

Naval Postgraduate School, Monterey, CA. 2011, 115p

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) Keywords: Data transmission security, Theses, Cyberciege.

PB2011112177

Guide to Industrial Control Systems (ICS) Security. Supervisory Control and Data Acquisition (SCADA) Systems, Distributed Control Systems (DCS), and other Control System Configurations such as Programmable Logic Controllers (PLC). Recommendations of the National Institute of Standardsand Technology.

National Inst. of Standards and Technology (ITL), Gaithersburg, MD. Computer Security Div. 2011, 155p NIST/SP-800-82

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 94 (Industrial & Mechanical Engineering) Keywords: Control systems, Computer security, Intelligent systems.

ADA546439

Stuxnet: Cyberwar Revolution in Military Affairs. Military Academy, West Point, NY. 2011, 11p

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory), 77 (Nuclear Science & Technology) 74 (Military Sciences) Keywords: Cyberwarfare, Reprints, Industrial equipment.

PB2011106310

Stuxnet Computer Worm: Harbinger of an Emerging Warfare Capability.

Congressional Research Service, Washington, DC. 2010, 12p CRS-R41524

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 74 (Military Sciences) Keywords: Computer viruses, Information security, Warfare.

ADA536855

Workshop on Scientific Analysis and Policy in Network Security.

European Office of Aerospace Research and Development, FPO New York 09510. 2010, 359p LNCS-6258

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 62D (Information Processing Standards) Keywords: Computer networks, Information security, Russia.

ADA556564

Cyberciege Traffic Analysis Extension for Teaching Network Security.

Naval Postgraduate School, Monterey, CA. 2011, 115p

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) Keywords: Data transmission security, Theses, Cyberciege.

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Protecting Accelerator Control Systems in the Face of Sophisticated Cyber Attacks.

Oak Ridge National Lab., TN ERKCSNX 2012, 5p

Related Categories/Sub-Categories:

62 (Computers, Control & Information Theory) 62C (Control Systems & Control Theory) 99B (Industrial Chemistry & Chemical Process Engineering)

77 (Nuclear Science & Technology) Keywords: Cybersecurity, Control systems, Chemical plants.

FREE DOWNLOAD PB2012112125

United States Computer Emergency Readiness Team (US-CERT) Monthly Activity Summary, January 2012.

Department of Homeland Security, Washington, DC. 2012, 4p

Related Categories/Sub-Categories:

70F (Public Administration & Government) 62 (Computers, Control & Information Theory) 43D (Police, Fire, & Emergency Services) 88B (Information Systems), 911 (Emergency Services & Planning)

Keywords: Cyber security, Computer security, Emergency readiness.

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Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order by title.

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ADA537055	70	CERT Approach to Cybersecurity Workforce Development.	
ADA517364	92	Comprehensive National Cybersecurity Initiative.	
ADA495414	92	Comprehensive National Cybersecurity Initiative: Legal Authorities and Policy Considerations	
PB2009108594	62	Comprehensive National Cybersecurity Initiative: Legal Authorities and Policy Considerations, March 10, 2009.	
ADA547075	62	Coordinated Cybersecurity Incident Handling: Roles, Processes, and Coordination Networks for Crosscutting Incidents.	
ADA463076	92	Creating a National Framework for Cybersecurity: An Analysis of Issues and Options.	
ADA542210	62	Creating a Network Model for the Integration of a Dynamic and Static Supervisory Control and Data Acquisition (SCADA) Test Environment.	
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ADA563730	74	Increasing Effectiveness of U.S. Counterintelligence: Domestic and International Micro-Restructuring Initiatives to Mitigate Cyberespionage.	
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