



## Category 45 Communications

**PB2009108594**  
Comprehensive National Cybersecurity Initiative: Legal Authorities and Policy Considerations, March 10, 2009. Congressional Research Service. 2009, 21p  
R40427  
Related Categories/Sub-categories: 62 (Computers, Control & Information Theory)

**PB2009108465**  
Internet Crime Report, 2008. Department of Justice. 2009, 28p  
Related Categories/Sub-categories: 70B (Management Practice)  
70F (Public Administration & Government)

**PB2009108270**  
Evolving Broadband Infrastructure: Expansion, Applications, Regulation. CRS Report for Congress. Congressional Research Service. 2009, 28p  
R40230  
Related Categories/Sub-categories: 70F (Public Administration & Government)

**PB2009108223**  
Infrastructure Programs: What's Different About Broadband. CRS Report for Congress. Congressional Research Service. 2009, 25p  
Related Categories/Sub-categories: 70F (Public Administration & Government)

**PB2009108146**  
Report on Universal Postal Service and the Postal Monopoly. Postal Regulatory Commission. 2009, 262p  
Related Categories/Sub-categories: 70F (Public Administration & Government)

**PB2009108112**  
Simulation and Experimental Study of 802.11 Based Networking for Vehicular Management and Safety. Department of Transportation. 2009, 36p  
TNW2009-03  
Related Categories/Sub-categories: 43G (Transportation)  
85D (Transportation Safety)  
85H (Road Transportation)

**PB2009107921**  
FTC Staff Report: Self-Regulatory Principles For Online Behavioral Advertising. Federal Trade Commission. 2009, 55p  
Related Categories/Sub-categories: 70F (Public Administration & Government)  
96A (Domestic Commerce, Marketing, & Economics)  
96D (Consumer Affairs)

**PB2009107182**  
Moving Forward: Driving Investment and Innovation While Protecting Consumers. Federal Communications Commission. 2009, 71p  
Related Categories/Sub-categories: 96D (Consumer Affairs)

**PB2009107138**  
Department of Defense Information Management & Information Technology Strategic Plan 2008-2009. Department of Defense. 2009, 44p  
Related Categories/Sub-categories: 62 (Computers, Control & Information Theory)  
70F (Public Administration & Government)  
74 (Military Sciences)  
88B (Information Systems)

**PB2009106715**  
Defense Needed to Shape Army's Combat Systems for the Future. Government Accountability Office. 2009, 59p  
GAO-09-288  
Related Categories/Sub-categories: 51C (Aircraft)  
74 (Military Sciences)

**PB2009106494**  
Army's Wireless Communications Programs. Congressional Budget Office. 2009, 24p  
Related Categories/Sub-categories: 45C (Common Carrier & Satellite)  
74E (Logistics, Military Facilities, & Supplies)  
74G (Military Operations, Strategy, & Tactics)

## NTIS Technical Reports Newsletter

**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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U.S. Department of Commerce  
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Springfield, VA 22161



## Category 45 Communications

PB2009106454

Severe Space Weather Events: Understanding Societal and Economic Impacts. Workshop Report.

National Research Council.

2009, 144p

ISBN-0-309-12769-6

Related Categories/Sub-categories:

55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

84E (Space Launch Vehicles & Support Equipment)

92C (Social Concerns)

96A (Domestic Commerce, Marketing, & Economics)

PB2009106400

Recommendation for Applications Using Approved Hash Algorithms.

National Institute of Standards and Technology.

2009, 20p

NIST-SP-800-107

Related Categories/Sub-categories:

62 (Computers, Control & Information Theory)

70F (Public Administration & Government)

PB2009106399

Randomized Hashing for Digital Signatures.

National Institute of Standards and Technology.

2009, 17p

NIST-SP-800-106

Related Categories/Sub-categories:

62 (Computers, Control & Information Theory)

70F (Public Administration & Government)

PB2009106341

Pakistan - Consequences of Deteriorating Security in Afghanistan.

Swedish Defence Research Agency.

2009, 165p

FOI-R-2683-SE

Related Categories/Sub-categories:

74 (Military Sciences)

92E (International Relations)

PB2009106079

National Infrastructure Protection Plan, 2009.

Partnering to Enhance Protection and Resiliency.

Department of Homeland Security.

2009, 188p

Related Categories/Sub-categories:

74 (Military Sciences)

88B (Information Systems)

PB2009106078

Report to Congress on Implementation of Section 1001 of the USA PATRIOT Act (As Required by Section 1001(3) of Public Law 107-56), February 2009.

Department of Justice.

2009, 14p

Related Categories/Sub-categories:

43D (Police, Fire, & Emergency Services)

92D (Education, Law, & Humanities)

91C (Fire Services, Law Enforcement, & Criminal Justice),

74 (Military Sciences)

PB2009105641

Transition to Digital Television: Is America Ready (January 21, 2009).

Congressional Research Service.

2009, 31p

Related Categories/Sub-categories:

92C (Social concerns)

PB2009105228

Broadcasting to Cuba: Actions Are Needed to Improve Strategy and Operations.

Government Accountability Office.

2009, 59p

GAO-09-127

Related Categories/Sub-categories:

70B (Management Practice)

92E (International Relations)

ADA494850

World Intellectual Property Organization (WIPO) Treaty on the Protection of Broadcasting Organizations. (Updated January 27, 2009).

Congressional Research Service.

2009, 11p

CRS-7-5700, CRS-R40174

Related Categories/Sub-categories:

92D (Education, Law, & Humanities)

92E (International Relations)

### Major Subject Categories

Category Codes*/Title	New for June Quantity**
41 Manufacturing Technology .....	46
43 Problem Solving Information for State & Local Governments .....	208
44 Health Care .....	264
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46 Physics .....	206
47 Ocean Sciences & Technology .....	94
48 Natural Resources & Earth Sciences .....	309
49 Electrotechnology .....	44
50 Civil Engineering .....	97
51 Aeronautics & Aerodynamics .....	77
54 Astronomy & Astrophysics .....	26
55 Atmospheric Sciences .....	92
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62 Computers, Control & Information Theory .....	165
63 Detection & Countermeasures .....	54
68 Environmental Pollution & Control .....	264
70 Administration & Management .....	427
71 Materials Sciences .....	72
72 Mathematical Sciences .....	52
74 Military Sciences .....	505
75 Missile Technology .....	10
76 Navigation, Guidance, & Control .....	42
77 Nuclear Science & Technology .....	74
79 Ordnance .....	74
81 Combustion, Engines, & Propellants .....	29
82 Photography & Recording Devices .....	11
84 Space Technology .....	86
85 Transportation .....	182
88 Library & Information Sciences .....	74
89 Building Industry Technology .....	28
90 Government Inventions for Licensing .....	1
91 Urban & Regional Technology & Development .....	285
92 Behavior & Society .....	562
94 Industrial & Mechanical Engineering .....	129
95 Biomedical Technology & Human Factors .....	39
96 Business & Economics .....	279
97 Energy .....	112
98 Agriculture & Food .....	99
99 Chemistry .....	114

\* For a listing of Scope Notes that defines the specific topical content for each category, go to <http://www.ntis.gov/assets/pdf/scopenotes.pdf>

\*\* Quantities represent each new report assigned on average to 3-5 categories.

## Category 45 Communications

ADA494778

Characterizing and Detecting Unrevealed Elements of Network Systems.

Department of Defense.

2009, 158p

AFIT/DS/ENS/08-01W

Related Categories/Sub-categories:

72E (Operations Research)

ADA493135

Africa Command: U.S. Strategic Interests and the Role of the U.S. Military in Africa. Updated January 5, 2009.

Congressional Research Service.

2009, 41p

Related Categories/Sub-categories:

92E (International relations)

## Category 82 Photography & Recording Devices

PB2009105466

Techniques for Evaluating Objective Video Quality Models Using Overlapping Subjective Data Sets.

National Center for Telecommunications and Information Policy.

2008, 120p

TR-09-457

Related Categories/Sub-categories:

45 (Communications)

62 (Computers, Control & Information Theory)

PB2009101386

Versatile Time-Lapse Camera System Developed by the Hawaiian Volcano Observatory for Use at Kilauea Volcano, Hawaii.

U.S. Geological Survey.

2008, 16p

USGS/SIR-2008-5117

Related Categories/Sub-categories:

48B (Natural Resource Management)

48F (Geology & Geophysics)

55A (Aeronomy)

57H (Ecology)

PB2009101392

Remote-Controlled Pan, Tilt, Zoom Cameras at Kilauea and Mauna Loa Volcanoes, Hawaii.

U.S. Geological Survey.

2008, 22p

USGS/SIR-2008-5129

Related Categories/Sub-categories:

48B (Natural Resource Management)

48F (Geology & Geophysics)

PB2008112877

Use of Small Unmanned Aircraft by the Washington State Department of Transportation.

Washington State Department of Transportation

2008, 27p

WA-RD-703.1

Related Categories/Sub-categories:

48H (Snow, Ice, & Permafrost)

50A (Highway Engineering)

51A (Aerodynamics)

51C (Aircraft)

62F (Pattern Recognition & Image Processing)

85 (Transportation)

PB2008112830

Vibration Reduction and Control for Traffic Cameras: Electrical Device User Manual.

Federal Highway Administration.

2008, 12p

PROJ-NO-0-5251-P2

Related Categories/Sub-categories:

43G (Transportation)

45B (Radio & Television Equipment)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

### 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 one to five, although there are some reports with more.

### 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)

PB2008107325

Optimization-Based Methods for Road Image Registration.

Department of Transportation.

2008, 16p

TNW2008-03

Related Categories/Sub-categories:

43G (Transportation)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

N20080046982

NASA Video Catalog.

National Aeronautics and Space Administration.

2008, 88p

NASA/SP-2008-7109/SUPPL18

Related Categories/Sub-categories:

70E (Research Program Administration & Technology Transfer)

70F (Public Administration & Government)

84 (Space Technology)

88 (Library & Information Sciences)

N20080039123

Making Smart Sensors Intelligent: Building on the IEEE 1451.x Standards.

National Aeronautics and Space Administration.

2008, 33p

SSTI-2200-0097

Related Categories/Sub-categories:

84 (Space Technology)

94B (Quality Control & Reliability)

N20080037427

High-Temperature Strain Sensing for Aerospace Applications.

National Aeronautics and Space Administration.

2008, 25p

Related Categories/Sub-categories:

63 (Detection and Countermeasures)



## Category 82 Photography & Recording Devices

N20080032494

Terrestrial Planet Finder Interferometer Formation Control Performance Demonstration. National Aeronautics and Space Administration. 2008, 83p

Related Categories/Sub-categories:  
84 (Space Technology)

N20080018467

Globally Optimal Particle Tracking Technique for Stereo Imaging Velocimetry Experiments. National Aeronautics and Space Administration. 2008, 24p

NASA/TM--2008-215153, E-16381

Related Categories/Sub-categories:  
84 (Space Technology)

N20080017326

2007 Ikhana Western States and Southern California Emergency UAS Fire Missions. National Aeronautics and Space Administration. 2008, 29p

Related Categories/Sub-categories:  
91C (Fire services, law enforcement and criminal justice)

DE2008942060

OpenCV and TYZX: Video Surveillance for Tracking.

Department of Energy. 2008, 33p  
SAND2008-5776

Related Categories/Sub-categories:  
63G (Personnel Detection)  
74G (Military Operations, Strategy, & Tactics)  
95D (Human Factors Engineering)

ADA494768

Bio/Nano Electronic Devices and Sensors. Department of Defense.

2008, 11p  
Related Categories/Sub-categories:  
62A (Computer Hardware)  
71I (Fibers & Textiles)

ADA494397

Opportune Landing Site Program: Opportune Landing Site Southeastern Indiana Field Data Collection and Assessment.

Department of Defense. 2008, 288p  
ERDC/CRREL-TR-08-22  
Related Categories/Sub-categories:

48E (Soil Sciences)  
50D (Soil & Rock Mechanics)  
85A (Air Transportation)

ADA493420

Evaluation of Stereoscopic Digital Mammography for Earlier Detection of Breast Cancer and Reduced Rate of Recall.

Department of Defense. 2008, 92p  
Related Categories/Sub-categories:

57A (Anatomy)  
57E (Clinical Medicine)  
57S (Physiology)  
62B (Computer Software)

ADA488726

Uses of a Polarimetric Camera.

Department of Defense. 2008, 77p  
Related Categories/Sub-categories:  
46C (Optics & Lasers)  
62F (Pattern Recognition & Image Processing)  
63C (Infrared & Ultraviolet Detection)

ADA487757

Orchestration: The Movement and Vocal Behavior of Free-Ranging Norwegian Killer Whales (*Orcinus Orca*).

Department of Defense. 2008, 304p  
MIT/WHOI-2008-08  
Related Categories/Sub-categories:  
57C (Botany)  
57Z (Zoology)  
92D (Education, Law, & Humanities)

ADA486177

Evaluation of Holographic Technology in Close Air Support Mission Planning and Execution.

Department of Defense. 2008, 47p  
Related Categories/Sub-categories:  
74G (Military Operations, Strategy, & Tactics)

ADA482998

Symposium I: Nanoscale Magnetic Materials and Applications. Held in Boston, Massachusetts on November 25-30, 2007.

Department of Defense. 2008, 55p  
Related Categories/Sub-categories:  
46 (Physics)  
71N (Nonferrous Metals & Alloys)  
99D (Basic & Synthetic Chemistry)  
71N (Nonferrous Metals & Alloys)

ADA482618

Automatic Extraction of 3D Models From an Airborne Video Sequence.

Department of Defense. 2008, 66p  
DSTO-TR-2095  
Related Categories/Sub-categories:  
74F (Military Intelligence)

ADA480027

Verification of Aerosol Optical Depth Retrievals using Cloud Shadows Retrieved from Satellite Imagery.

Department of Defense. 2008, 86p  
Related Categories/Sub-categories:  
55C (Meteorological Data Collection, Analysis, & Weather Forecasting)

ADA478611

Ultrafast Target Recognition via Super-Parallel Holograph Based Correlator, RAM and Associative Memory.

Department of Defense. 2008, 95p  
Related Categories/Sub-categories:  
63 (Detection & Countermeasures)

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