2007

September: ***Summary of a Workshop on Software-Intensive Systems and Uncertainty at Scale***. This report summarizes the workshop on uncertainty at scale in the context of software-intensive systems producibility, held January 17, 2007, in Washington, D.C., under the auspices of CSTB's Committee on Advancing Software-Intensive Systems Producibility. The workshop was structured to gather inputs and insights from the commercial and military software and system development communities looking at the current and future challenges that surround engineering uncertainty, system complexity, and scale.

August: ***Social Security Administration Electronic Service Provision: A Strategic Assessment***. This report examines the SSA's proposed e-government strategy and provides advice on how the SSA can best deliver services to its user communities in the future.

June: ***Toward a Safer and More Secure Cyberspace***. This report examines the vulnerabilities of the Internet and offers a strategy for future research aimed at countering cyber attacks. The report also explores the nature of online threats and some of the reasons why past research for improving cybersecurity has had less impact than anticipated.

May: ***Software for Dependable Systems: Sufficient Evidence?*** This report discusses the meaning of dependability in a software and systems context, illustrates how the growing use and complexity of software necessitates a different approach to ensuring dependability, and recommends an evidence-based approach to achieving justifiable confidence in and greater dependability of software.

May: ***Engaging Privacy and Information Technology in a Digital Age***. This report examines how threats to privacy are evolving, ongoing information technology trends, and how society can balance the interests of individuals, businesses, and government in ways that promote privacy reasonably and efficiently.

January: ***Improving Disaster Management: The Role of IT in Mitigation, Preparedness, Response, and Recovery***. This report examines information technology's as-yet unrealized potential to improve how communities and the nation handle disasters and describes payoffs for disaster management that include more robust and interoperable communications, improved situational awareness and decision support, greater organizational agility, and enhanced engagement of the public.

2006

August: ***Renewing U.S. Telecommunications Research***. This book examines telecommunications research in industry and academia, discusses the implications for the health of the sector, and recommends ways to enhance U.S. telecommunications research efforts.

July: **Letter Report on Electronic Voting.** This letter report examines the current state of readiness for electronic voting in jurisdictions across the United States, and gauges what progress has been made since the publication of CSTB's 2005 report, *Asking the Right Questions About Electronic Voting*.

February: ***Summary of a Workshop on the Technology, Policy, and Cultural Dimensions of Biometric System.*** This book provides a summary of discussions by panelists and participants at a public workshop organized by CSTB's Whither Biometrics Committee and held on March 15-16, 2005

2005:

December: ***Catalyzing Inquiry at the Interface of Computing and Biology***. This report provides a high-level intellectual structure for Federal agencies for supporting work at the biology/computing interface, and seeks to establish the intellectual legitimacy of a fundamentally cross-disciplinary collaboration between biologists and computer scientists.

September: ***Summary of a Workshop on Using IT to Enhance Disaster Management***. This report summarizes remarks at a June 22-23, 2005, workshop by representatives of federal, state, and local

government agencies, private industry, and the research community on the present state of the art and practice and future opportunities to harness information technology to aid in the management of natural and human-made disasters.

September: ***Asking the Right Questions About Electronic Voting***. This report articulates important questions and issues that election officials, policy makers, and informed citizens should ask concerning the use of computers and information technology (IT) in the electoral process.

June: ***Building an Electronic Records Archive at NARA: Recommendations for a Long-Term Strategy***. This report examines several important long-term issues in archiving electronic records, including coping with technological change, reengineering archival processes for electronic records, partnering with other institutions, broadening research interactions, and assuring record integrity and authenticity.

March: ***Signposts in Cyberspace: The Domain Name System and Internet Navigation***. This report examines the performance and prospects of the Domain Name System from technical and institutional perspectives, and also looks at how navigation technologies and institutions facilitate finding and accessing Internet resources. It describes the evolution of the technologies and institutions that have supported the growth of the Internet and provides the basis for future decisions that will enable its productive evolution.

2004:

December: ***ITCP: Information Technology and Creative Practices (brochure)***. This 10-page pamphlet provides a brief summary of the groundbreaking report *Beyond Productivity: Information Technology, Innovation, and Creativity* (2003) and showcases some current examples of projects at the intersection of IT and the arts and design. It is designed to engage the academic community, government agencies, industry, arts organizations, and individual creative practitioners in thinking about how best to foster ITCP work.

December: ***Radio Frequency Identification (RFID) Technologies: A Workshop Summary***. This report provides a summary of discussions by panelists and participants at a workshop organized by CSTB's Committee on Radio Frequency Identification Technologies.

November: ***Getting up to Speed: The Future of Supercomputing***. This report examines U.S. needs for supercomputing and recommends a long-term strategy for government support of high-performance computing research and development.

October: ***Summary of a Workshop on Software Certification and Dependability***. This report provides a summary of discussions by panelists and participants at a public workshop organized by CSTB's Committee on Certifiably Dependable Software Systems and held on April 19-20, 2004.

October: ***Computer Science: Reflections on the Field, Reflections from the Field***. This report provides a concise characterization of key ideas that lie at the core of computer science (CS) research together with two dozen essays on diverse aspects of CS research and what motivates and excites CS researchers.