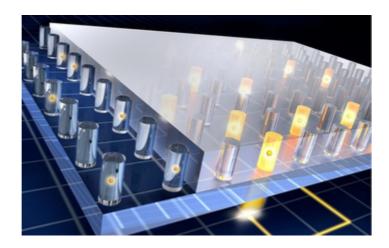




Media Advisory 15-015

Rebooting the IT Revolution report now available

Tech, academic and government leaders at NSF-funded workshop identify paths to next transformative technologies



Basic research spurs major advances in the science and technology of information infrastructure. Credit and Larger Version (/news/news_images.jsp?cntn_id=136126&org=NSF)

September 1, 2015

This material is available primarily for archival purposes. Telephone numbers or other contact information may be out of date; please see current contact information at media contacts (/staff/sub_div.jsp? org=olpa&orgId=85).

A report released today identifies fundamental research needs for advancing the burgeoning Internet of Things and catalyzing cutting-edge innovations that will support future U.S. technology leadership and economic competitiveness.

What: The report http://www.nsf.gov/cgi-bin/good-bye?https://www.src.org/newsroom/rebooting-the-it-revolution.pdf is based on a March 2015 workshop supported by the National Science Foundation http://www.nsf.gov (NSF) and sponsored by the Semiconductor Industry Association http://www.nsf.gov/cgi-bin/good-bye?http://www.semiconductors.org/ and Semiconductor Research Corporation https://www.src.org/ : Rebooting the IT Revolution.

The report details research needed to spur major advances in the science and technology of information infrastructure and to unleash broad opportunities for innovation.

Many of these areas align with federal research initiatives, including the <u>National Strategic Computing Initiative https://www.whitehouse.gov/blog/2015/07/29/advancing-us-leadership-high-performance-computing, The BRAIN Initiative https://www.whitehouse.gov/blog/2015/06/17/call-nanotechnology-inspired-grand-challenges https://www.whitehouse.gov/blog/2015/06/17/call-nanotechnology-inspired-grand-challenges .</u>

Who: Mihail C. Roco, NSF senior advisor for science and engineering and founding chair of the <u>National Science and Technology Council's subcommittee on Nanoscale Science</u>, Engineering and <u>Technology http://www.nano.gov/nset, is available to talk with members of the press about the report.</u>

When: Sept. 1, 2015, from 11 a.m. to 12:30 p.m. EST, or by request at 703-292-8301.

Background: NSF has long supported cross-disciplinary, fundamental research in information technology, advanced materials, nanoscale science, and many other key engineering research areas, including the societal implications of science and technology, helping to spawn global growth in information technology research and innovation and to spark ">spark ">https://www.nitrd.gov/>">spark ">spark ">spark ">spark https://www.nitrd.gov/>">spark https://www.nitrd.gov/>">spark https://www.nitrd.gov/

Increasing societal expectations to access information anywhere, anytime and deepening infusion of information technology in the physical world demand the development of a robust information technology infrastructure that connects the physical and virtual worlds.

To determine ways to meet this demand, to fully realize Internet of Things breakthroughs, and to sustain America's technology leadership, workshop participants discussed needs for fundamental research for energy-efficient sensing and computing, data storage, real-time communication ecosystem, multi-level and scalable security, a new fabrication paradigm and insight computing.

-NSF-

Media Contacts

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Related Websites

Workshop report: Rebooting the IT revolution: https://www.src.org/newsroom/rebooting-the-it-revolution.pdf (/cgi-bin/good-bye?https://www.src.org/newsroom/rebooting-the-it-revolution.pdf)

Semiconductor Research Corporation news release: https://www.src.org/newsroom/press-release/2015/753/ (/cgi-bin/good-bye?https://www.src.org/newsroom/press-release/2015/753/)

Semiconductor Industry Association: http://www.semiconductors.org/ (/cgi-bin/good-bye?

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