

# AUTHENTICITY, INTEGRITY, AND SECURITY IN A DIGITAL WORLD

FEBRUARY 19-20, 2019 | NATIONAL ACADEMY OF SCIENCES BUILDING | WASHINGTON, DC 20418

## Related Reading

*No Endorsement Intended or Implied*

### Related National Academies Publications

- [Quantum Computing: Progress and Prospects](#), 2018
- [Decrypting the Encryption Debate: A Framework for Decision Makers](#), 2018
- [Using Technology to Advance Global Health: Proceedings of a Workshop](#), 2018
- [Science Breakthroughs to Advance Food and Agricultural Research by 2030](#), 2018

### **Trust, Ethics, and Governance of Digital Systems**

#### "Artificial Intelligence and Ethics"

Jonathan Shaw  
*Harvard Magazine*, January-February 2019

#### AI Now Report 2018

Meredith Whittaker, Kate Crawford, Roel Dobbe, Genevieve Fried, Elizabeth Kaziunas, Varoon Mathur, Sarah Myers West, Rashida Richardson, Jason Schultz, and Oscar Schwartz  
AI Now Institute, December 2018

#### "As Facebook Raised a Privacy Wall, It Carved an Opening for Tech Giants"

Gabriel J.X. Dance, Michael LaForgia, and Nicholas Confessore  
*The New York Times*, December 18, 2018

#### Malevolent Soft Power, AI, and the Threat to Democracy

Elaine Kamarck  
Brookings, November 29, 2018

#### "Colleges Grapple With Teaching the Technology and Ethics of A.I."

Alina Tugend  
*The New York Times*, November 2, 2018

#### "Saying 'the internet is broken' won't fix anything"

Anne Quito  
Quartz, November 8, 2018

#### "Amazon scraps secret AI recruiting tool that showed bias against women"

Jeffrey Dastin  
Reuters, October 9, 2018

#### "The four ways that ex-internet idealists explain where it all went wrong"

Tim Hwang  
*MIT Technology Review*, August 22, 2018

#### How Policymakers Can Foster Algorithmic Accountability

Joshua New and Daniel Castro  
Center for Data Innovation, May 2018

#### Building a Better HAL 9000: Algorithms, the Market, and the Need to Prevent the Engraining of Bias

Anjanette Raymond, Emma Arrington Stone Young, and Scott J. Shackelford  
*Northwestern Journal of Technology and Intellectual Property*, April 2018

#### "The Grim Conclusions of the Largest-Ever Study of Fake News"

Robinson Meyer  
*The Atlantic*, March 8, 2018

#### Did technology kill the truth?

Tom Wheeler  
Brookings, November 14, 2017

#### The Fate of Online Trust in the Next Decade

Lee Rainie and Janna Anderson  
Pew Research Center, August 2017

#### Digital Planet 2017: How Competitiveness and Trust in Digital Economies Vary Across the World

Bhaskar Chakravorti and Ravi Shankar Chaturvedi  
The Fletcher School, Tufts University, July 2017

#### Artificial Intelligence, the Great Disruptor: Coming to Terms with AI-Driven Markets, Governance and Life

The Aspen Institute, 2017

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## [Coordinating Technology Governance](#)

Gary Marchant and Wendall Wallach  
*Issues in Science and Technology*, Summer 2015

## Emerging Technology

### [Princeton IoT Inspector](#)

### [Blockchain: Leveraging a Trust Technology in Expeditionary Economics](#)

Carl Schramm  
*Innovations: Technology, Governance, Globalization*,  
December 28, 2018

### [Artificial Intelligence and the Future of Humans](#)

Janna Anderson, Lee Rainie, and Alex Luchsinger  
Pew Research Center, December 10, 2018

### [How 5G Will Shape Innovation and Security](#)

James Andrew Lewis  
Center for Strategic and International Studies,  
December 6, 2018

### [Clark's "Designing an Internet" – A Review](#)

Milton Mueller  
Internet Governance Project at Georgia Tech,  
December 5, 2018

### ["The Race is On to Protect Data from the Next Leap in Computers. And China Has the Lead."](#)

Cade Metz and Raymond Zhong  
*The New York Times*, December 3, 2018

### [User Perceptions of Smart Home IoT Privacy](#)

Serena Zheng, Noah Apthorpe, Marshini Chetty, and Nick Feamster  
*Proceedings of the ACM on Human-Computer Interaction*, November 2018

### [How Quantum Computing is Enabling Breakthroughs in Chemistry](#)

Mark Jackson  
Singularity Hub, November 15, 2018

### ["In the Age of A.I., Is Seeing Still Believing?"](#)

Joshua Rothman  
*The New Yorker*, November 12, 2018

### ["You thought fake news was bad? Deep fakes are where truth goes to die"](#)

Oscar Schwartz  
*The Guardian*, November 12, 2018

### ["These New Tricks Can Outsmart Deepfake Videos - For Now"](#)

Sarah Scoles  
*Wired*, October 17, 2018

### ["The government is rolling out 2-factor authentication for federal agency dot-gov domains"](#)

Hamza Shaban  
*The Washington Post*, October 8, 2018

### ["US Govt. Approves Funding of \\$800,000 for Blockchain Platform Research"](#)

Smita Sodha  
Cryptoground, August 21, 2018

### ["Fake American Great Again"](#)

Will Knight  
*MIT Technology Review*, August 17, 2018

### ["How quantum computers will destroy and \(maybe\) save cryptography"](#)

Roger Grimes  
Computerworld, August 2, 2018

### ["The Blockchain Solutions to Our Deepfake Problems"](#)

Antonio Garcia Martinez  
*Wired*, March 26, 2018

### [Beyond Bitcoin: Emerging Applications for Blockchain Technology](#)

Chris Jaikaran  
Written testimony for the Committee on Science, Space and Technology, Subcommittee on Oversight & Subcommittee on Research and Technology, U.S. House of Representatives, February 14, 2018

### [Semantics derived automatically from language corpora contain human-like biases](#)

Aylin Caliskan, J.J. Bryson, and Arvind Narayanan  
*Science*, April 2017

### [Time to rethink mandatory password changes](#)

Lorrie Cranor  
Federal Trade Commission, March 2, 2016