Summit on Technology and Jobs

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35 years of research on automated reasoning

2011 “jolt”: Watson’s Jeopardy feat!
- What societal consequences can we expect of AI?
- What is my social responsibility?
Automated Driving
The Most Common Jobs (2014)
Manufacturing: Output vs. Jobs

US Real Manufacturing Output vs. Employment, 1947 to 2014

- Manufacturing Output (billions of 2014 dollars)
- Manufacturing Employment (millions)
Driving Force: Automation

Real US Manufacturing Output per Worker, 1947 to 2014

2014 dollars

Sources: BEA and BLS
Tesla Model S Factory Floor
Real median yearly incomes, white men with no college degree

Non-Hispanic white men saw their best income growth in more than a decade in 2015 - but they're still way down from 1975 levels, after adjusting for inflation.

Source: CBPP analysis of Census Bureau data
WAPO.ST/WONKBLOG
Labor-Force Participation - Men

Source: Organization for Economic Co-operation and Development
Shaded areas indicate US recessions - 2015 research.stlouisfed.org
Political Consequences

Republican-leaning metros have more routine jobs
Share of jobs that are routine vs. Obama’s vote margin over Romney in the 2012 presidential election, by metropolitan area*

*Metropolitan area names have been shortened from the official census versions

BASIS ON DATA FROM THE AMERICAN COMMUNITY SURVEY, DAVE LEIP’S ATLAS OF U.S. PRESIDENTIAL ELECTIONS
Computing Research Association

CRA's mission: Enhance innovation by joining with industry, government, and academia to strengthen research and advanced education in computing - see cra.org

Specifically: Engage the computing research community to provide trusted, non-partisan input to policy thinkers and makers.

Why CRA and Jobs? "With great power comes great responsibility". (Voltaire)

We created this technology; we must accept our social responsibility.
Arnold & Porter Kay Scholer, Association for the Advancement of Artificial Intelligence, Association for Computing Machinery, Association for Computing Machinery — SIGAI, Computing Research Association, Future of Life Institute, Google, IEEE Computer Society, Microsoft Research, Rice University, Two Sigma, USENIX Association, VMWare
Logistics

- Event is livestreamed
- Guest network is open
- Tweeting: @CRAtweet, #futureofwork
- Stay on time!