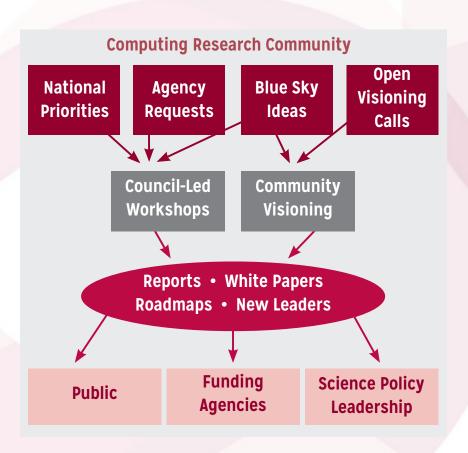
CREATING INCENTIVES FOR ACTION Developing a Shared Research Agenda Code 8.7 Conference

The Computing Community Consortium (CCC)



COMPUTING COMMUNITY CONSORTIUM

The Computing Research Association's Computing Community Consortium (CCC) catalyzes the North American computing research community to enable the pursuit of innovative, high-impact research.



Who:

- Council 20 members
- CCC/CRA Staff
- Chair, VC, & Director

What:

- Workshops & Conf. Blue Sky Tracks
- Whitepapers & Social Media
- Reports Out (esp. to government)
- Biannual Symposium

Professional Development:

- Early Career Workshops & Participation
- Council Membership
- Leadership w/ Gov't (LISPI)

CCC AS A CATALYST

cat·a·lyst

- a substance that increases the rate of a chemical reaction without itself undergoing any permanent chemical change.
- a person or thing that precipitates an event.



CCC TASK FORCES

CCC Task Forces identify needs and opportunities, then take actions intended to "move the needle" in a target area.

CCC Task Forces:

- Small, agile, limited lifetimes.
- Include CCC members and others from the community.
- Meet via teleconference on a regular basis.
- Report out to the CCC as a whole periodically.
- Produce whitepapers to scope out research challenges and help inform agency-initiated investments in computing.
- Organize visioning activities that connect the research needs of the community with the mission needs of agencies.



CCC 2018-2019 TASK FORCES

- Cybersecurity and Cybercrime
- Health and Human Computer Interaction
- Information Integrity and Provenance
- Intelligent Infrastructure
- Fairness and Accountability
- Systems and Architecture
- Industry Working Group: Transportation
- Al Roadmap Working Group

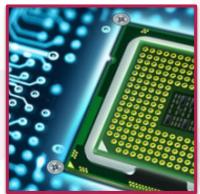


EXAMPLES OF CCC AMPLIFICATION



BRAIN Initiative launched in 2013.

CCC co-hosted the Brain Workshop with NSF in 2014.



CCC co-hosted the SA+TS workshop with SRC and NSF in 2013.

Produced Research
Needs for Trustworthy,
and Reliable
Semiconductors
Report in 2015.



NSCI announced in July 2015.

CCC produced a series of blog posts on the topic, featuring one from Doug Burger, and the Convergence of Data and Computing task force frequently overlaps with this topic.



Smart and Connected
Health Program in NSF and
NIH.

CCC has hosted several workshops on related topics, including: Aging in Place (2014), Inclusive Access (2015), and Smart and Pervasive Health (2016) and produced related reports and white papers.

FOUNDATIONAL AI RESEARCH

From recent discussions within the Al research community:

- Open knowledge repositories
- Contextualized Al
- Human / Al collaboration
- Trust and responsibility
- Diversity of interaction channels
- Improving online interaction
- Robust and trustworthy machine learning
- Deeper learning for challenging tasks
- Integrating symbolic and numeric representations



A SHARED RESEARCH AGENDA

Our shared challenge:

 Effectively pooling our combined talents and energies in the fight to end modern slavery.

CCC's contribution to Code 8.7 as we envision it:

- Catalyzing the US computing research community.
- Engaging with US funding agencies and policy makers.
- Serving as a bridge to international efforts (new for CCC).



A SHARED RESEARCH AGENDA

In collaboration with Code 8.7 partners:

- Contribute to communications arising from conference.
- Participate in follow-on events organized by partners.

Working directly with CCC's constituencies:

- Employ convening power in US computing community.
- Organize a research-themed workshop for Fall 2019.
- Produce research-themed communications for the community, funding agencies, and foundations.

