Computing beyond AI and quantum (and as foundation for them)

Cooperative AI/ Human-in-loop AI

safe elections (security, disinformation, ...?)

Keeping compuiting industry in the US: Scary fact: Intel maybe exiting semiconductor manufacturing https://finance.yahoo.com/news/intel-considers-once-heresy-not-013625863.html

Challenges to keeping the computer industry centered in the US [update]

Robotics enabling the workforce

Robotics to do more with less

Policy incentives for secure and responsible tech

State of the art in detecting and generating fake (machine generated) media

Algorithmic Bias

Privacy: ethics and technology

Benefits and risks of today's AI technology

Role of computing in exacerbating or countering bias in legal/justice systems

Interdiscplinary approaches to understanding AI impact on society

Infrastructure for emergency response (better than the ad hoc HPC consortium NSF is running for COVID work)

How computing research could prepare us for much more rapid and effective response to next COVID-like crisis

Compute Infrastructure Stresses In the Virtual Travel Age

Virtual meetings without glitches

Maker tech - possibilities and limitations [Leah Beuchley (U. NM), Jeff Bardzell (Penn State), Tom Yeh (CU Boulder)]

CS GI Bill (Maria)

K-16 CS Education to increase US competitiveness

government-academy engagement

Collaborations between industry and academia

Overcoming the end of Moore's Law

Beyond Digital Computing

AI at the Edge, Sensors and IoT Devices

Cultivating an equitable computing research workforce

Computing to help returning people from the services

Tech for aging in-place [Katie Siek, Robin Brewer (U. Mich), Amanda Lazar (U. Maryland)]

inclusive computing

Accessibility in Computing [Leah Findlater (U. Wa), Shaun Kane (CU Boulder)]

complexities of data-centric ecosystems

Open Machine Learning (model sharing, data sharing)

Very large scale data / compute infrastructure to advance AI research in academia

Robustness of research ecosystem

CS is a part of so much (Kalil)

Value of basic, foundational research in computing

Invest in research infrastructure

Information environment

Data as a pubic good (rather than a private industry commodity).

AI-Driven Simulators / Understanding Society / Design

Third Wave AI (stat+symb)

Unintended Consequences of tech for underserved communities [Katie Siek; Tiffany Veinot (UMich); Jessica Anker (Cornell Health); Andrea G. Parker (GaTech)]

Personal ?health? data - ownership, usage [Katie Siek, Shwetak Patel, Lauren Wilcox (GaTech)]

Opportunities for technology in rural communities [There was a CI fellow who is doing farming tech; Norman Su [IU], Jean Hardy (Michigan State), Scott McCrickard (VaTech)]

New models for computing that bake in security, privacy, fairness

How to represent a probability distribution as a physical pheonomenon

Getting us ready for the coming Post-Quantum algorithm transition

PCAST - HPC/AI/Quantum infrastructure

Universal access to computing (broadband, data)

*G Communications