

THE MITRE CORPORATION

Mr. Charles Howell

Chief Scientist for Dependable Artificial Intelligence (AI)



Chuck Howell is focused on increasing MITRE's role as enabler and accelerator for our stakeholders' adoption of consequential AI systems. His current priority is on adapting tools and techniques from high-assurance systems engineering used in safety critical systems development and from the financial sector's model risk management frameworks to apply to consequential AI (particularly, machine learning) systems. These adapted tools and techniques can help organizations mitigate concerns about AI system properties such as fairness, operational risk, and credibility. Adapting these tools and techniques can reduce rework, encourages informed selection of AI capabilities into consequential systems, and reduces the risk of failure to deploy or operational failure after deployment of the system. Chuck has over 30 years of experience working in High Assurance Systems Engineering and AI. He previously held roles at Mitretek, Sun

Microsystems, Reliable Software Technologies, and Computer Sciences Corporation. He was a member of the Institute of Electrical and Electronics Engineers (IEEE) Software Engineering Body of Knowledge Industrial Advisory Board. He has co-chaired the Fall 2015, 2016, 2017, and 2018 Association for the Advancement of Artificial Intelligence (AAAI) national workshops on Cognitive Assistance in Government and Public Sector Applications. He is a Senior Member of the IEEE and a member of the AAAI.

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