

THE MITRE CORPORATION

Chuck Howell

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Chuck is focused on adapting tools and techniques from high-assurance systems engineering and from various risk management frameworks to apply to consequential AI (particularly, machine learning) systems. These tools and techniques can help organizations address concerns about AI system properties such as fairness, operational risk, safety, and credibility. 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, Verdix, 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. Chuck chaired the First Annual Assurance Case Workshop in Florence, Italy, and 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 co-author of the book *Solid Software* (Prentice Hall, 2001). Chuck is a Senior Member of the IEEE and a member of the AAAI and the Association for Computing Machinery.

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