

Reports of the Workshops Held at the 2019 International AAI Conference on Web and Social Media

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■ *The workshop program of the Association for the Advancement of Artificial Intelligence's 13th International Conference on Web and Social Media was held at the Bavarian School of Public Policy in Munich, Germany on June 11, 2019. There were five full-day workshops, one half-day workshop, and the annual evening Science Slam in the program. The proceedings of the workshops were published in Research Topic of the Frontiers in Big Data. This report contains summaries of those workshops.*

Complex Systems Perspectives on Algorithmic Bias

The goal of the Complex Systems Perspectives on Algorithmic Bias workshop was to investigate how the quickly evolving field of algorithmic bias can benefit from theory and methods used in complex systems research.

From search result ranking to friend recommendation, algorithms used in today's online platforms exist within a coevolving universe of model parameters, institutional constraints, and the whims of platform users. In this workshop, we focused on the development and exposition of research that seeks to model, quantify, or theorize the complex system of algorithms, platforms, and users. Through a mix of presentations of accepted abstracts, presentations from keynote speakers, and panel discussions, the workshop brought to the forefront empirical, theoretical, and simulation-based research that can help clarify this interplay using a complex systems perspective. We took a broad view of what a complex system perspective entails, emphasizing only that there is a goal of understanding how these various pieces fit and evolve together.