

A Supervised Machine Learning Approach to Arrangement and Description

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Abstract: Using a case study based in the author's current work at the Defense Threat Reduction Agency (DTRA) in the Nuclear Technology Division, this paper describes issues in big data as related to nuclear technology and how through the adaptation of computational science methods, such as machine learning, a program was developed to make information discoverable at the Defense Threat Reduction Information Analysis Center (DTRIAC). Finally this paper discusses the impact of the introduction of computation archival science and its contribution of working with large-scale archives processing, analysis, and access as a way to improve effective retrieval and arrangement and description.

About the Author:

Dr. Jennifer Stevenson is the program manager of the Defense Threat Reduction Information Analysis Center at the Defense Threat Reduction Agency. Her research interests include machine learning and working with big data in a variety of capacities. Her past research efforts have included data mining, social media, and social network analysis within the realm of archival science.