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Proceedings of the First Workshop on

Human-Centered Big Data Research

North Carolina State University

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Sponsored by:



Laboratory for
Analytic Sciences

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Welcome

We are pleased to welcome you to the proceedings of the first workshop on Human-Centered Big Data Research sponsored by the Laboratory for Analytic Sciences and hosted at the North Carolina State University.

Although Big Data has become a pervasive aspect of our lives, there is still so much we do not understand when it comes to supporting the analysis and comprehension of large volumes, diversity, and acquisition of data. We have little understanding whether the tools we provide people to understand Big Data are empowering, sufficient, or even limiting their abilities. While there are many workshops, conferences, and symposia that look at the technical aspects of Big Data, few of these events discuss the implications of Big Data on human understanding.

As evidenced by these proceedings, the field of Human-Centered Big Data research is extremely multidisciplinary. Multiple disciplines bring together a breadth of knowledge, but also a difference in language, methodology, and analytic discourse. The goal of HCBDR 2014 was threefold: (1) to bring together researchers from different disciplines to share knowledge, (2) to define a common space for Human-Centered Big Data research, and (3) to create a multidisciplinary research community for future Human-Centered Big Data research.

This inaugural workshop brought together researchers in academia, industry, and government to discuss the challenges of understanding, studying, and developing technology to support human interaction and understanding of Big Data. Papers and talks from a variety of disciplines described research on humans and Big Data. The keynote on the Laboratory for Analytic Sciences laid out the future analytic challenges of Big Data. Three breakout sessions on sensemaking, modeling, and methodology provided an opportunity for participants to discuss the challenges of human-centered Big Data research.

We would like to thank the authors, speakers, and participants for a truly enlightening and productive workshop.

Celeste Lyn Paul

Department of Defense

General Chair

Dave Harris, James Keiser, Kay Moore, Forrest Allen

Laboratory for Analytic Sciences

Workshop Committee

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Keynote

Dave Harris: Laboratory for Analytic Sciences

J. David Harris is Director of the Laboratory for Analytic Sciences, Raleigh NC, responsible for developing a science of analysis and analytic methodology. During nearly 25 years service with the U. S. Department of Defense, he has worked in a variety of technical and leadership positions in areas of research and development, technology transfer, and operations.

The mission of the Laboratory for Analytic Sciences (LAS) is to imagine, investigate, and implement innovative classified and unclassified solutions for a variety of tactical and strategic analytic challenges important to the National Security Agency. The LAS is an environment in which new and novel approaches to technology, tradecraft, and user experience are developed in order to enable the development and application of structured analytic techniques.