

Quantifying the Human Dimension through Methodology and Technology

Session Chairs:

Glory Emmanuel Aviña & Monte Hancock

Sandia National Laboratories-California, Celestech Inc.



Panel Topic

Topic Summary: Scientific study that focuses on the mathematical modeling, research design and methodology, and statistical analysis of human attributes and psychological processes

**For problem-solving, innovative solutions,
diverse perspective...**

**...Consider the human-in-the-loop,
the persons making the decisions**

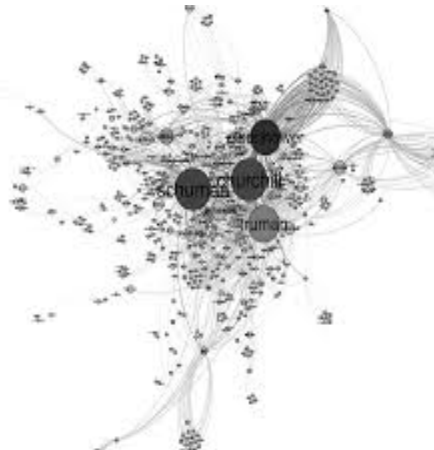
Panel Topic

Methodology

- Communication Map**
- Job/Cognitive Task Analysis**
- Web Crawling**
- Text Analytics**
- Social Media Data Analysis**
- Non-Traditional Data Sources**

Panel Topic

Technology



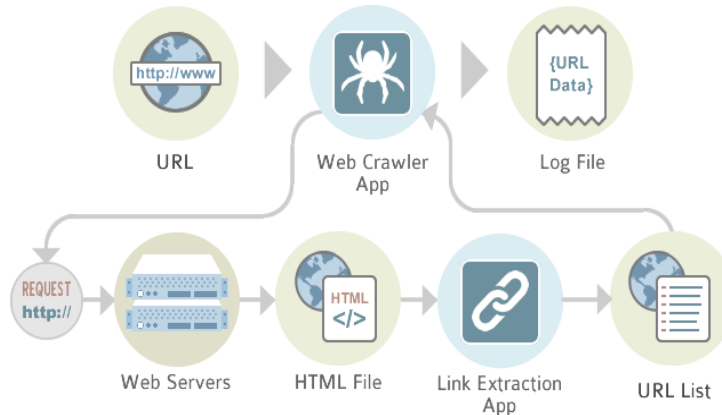
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Time 5:00 am Start

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Panel Layout

6 5 Presentations

15min Presentation Time

5min Q&A per Talk

10 – 15min Discussion Time

Outline of Presentations

Paper Title**Presenter**

Job Analysis and Cognitive Task Analysis in National Security Environments

Robert Kittinger

The Art of Research: Opportunities for a Science-Based Approach

Austin Silva

Improving Analysis and Decision-Making through Intelligent Web Crawling

Jonathan T. McClain

Explaining a Virtual Worker's Job Performance: The Roles of Psychological Distance

Christian Wagner

Empirical Study of Secure Password Creation Habit

Chloe Chun-Wing Lo

Modeling of Social Media Behaviors Using Only Account Metadata

Monte Hancock
