Workshops

Visual Analytics in Healthcare

Date:

November 2-3, 2015

Meeting Place:

Social Science Research Commons (SSRC), Indiana University Woodburn Hall, Room 200 1100 East Seventh Street Bloomington, IN 47405

Indiana University Campus Map »

Organizers:



Katy Börner

Victor H. Yngve Professor of Information Science, Department of Information and Library Science, School of Informatics and Computing, Indiana University, Bloomington; Director, Cyberinfrastructure for Network Science Center & Curator of Mapping Science exhibit, Bloomington, IN katy@indiana.edu
PR^2



Titus KL Schleyer, DMD, PhD

Clem McDonald Professor of Biomedical Informatics and Director, Regenstrief Institute, Inc., Center for Biomedical Informatics schleyer@regenstrief.org
PR^2

Workshop Goals & Agenda:

This 1.5 day, invitation-only workshop will bring together healthcare and public health professionals, biomedical informaticians, visualization and data analytics experts, and developers. The overall theme is to advance the use of big data analytics and visualization for population health monitoring and management. Key goals of the workshop are to:

- · conceptualize key approaches to assessing data quality in large healthcare databases using analytics and visualizations;
- · monitor real-time data streams with regard to volume, type of data and data quality;
- · identify use cases for the application of discussed approaches to population health monitoring and management; and
- · discuss synergies among efforts and possible joint funding applications.

Format is a combination brief presentations, brainstorming sessions, and hands-on sessions--to be finalized when participants are confirmed.

Schedule:

Monday, November 2, 2015

12:00pm Collaboration Lunch

Welcome by Organizers (Katy Börner and Titus Schleyer)

12:30pm General Introduction by Participants (5 min per person/organization)

2:00pm Social Networking Break

2:30pm Overview Talks, Woodburn Hall 200 (Open for public) (the video starts at 19:30; second talk starts at 1:18:40)

Incomplete, Missing, and Wrong: Working with Dirty Healthcare Data from a Clinical Investigators Perspective by

Tim Imler

Dynamic Data Visualizations by Katy Börner

4:30pm Social Networking Break

5:00pm Brainstorm of Opportunities and Challenges [Result 1 | 2]

6:00 pm Adjourn

6:30pm Joint Dinner Brainstorm

Scholars Inn Gourmet Café & Wine Bar 717 N. College Avenue • Bloomington, IN

Tuesday, November 3, 2015

8:30am Breakfast

9:00am Brainstorming Result [Result]

12:00pm Joint Lunch

1:00pm Breakout Sessions

Monitoring and Managing Data Quality in the INPC

Creating and sharing data quality rules

10x10 Course in Health Care Visualization and Analytics

Create a synthetic realistic database for research

Pilot project to demo the value of data

2:30pm Second Best Ideas

3:00pm Discussion of Collaboration Opportunities [Result]

4:00pm Adjourn

Photos:



Invited Participants:



Bill Barnett

Chief Research Informatics Officer, Regenstrief Institute, Inc. PR^2



Clarice Brown

Director of Division of Health Care Statistics, CDC



Derek Dunn

Executive Director - Decision Support & Analytics, Indiana University Health PR^2



Harold Gil

Surveillance Epidemiologist, Marion County Public Health Department PR^2



Michael Ginda

Data Analyst, CNS Center, IU Bloomington







Shaun Grannis, MD, MS, FAAFP Medical Informatics Research Scientist, Regenstrief Institute PR^2



Daniel Halsey Senior System Architect, Project Manager, CNS Center, IU Bloomington



Charity Hilton Systems Engineer III, Regenstrief Institute



Dan Housman Chief Technology Officer, Deloitte Converge Health PR^2



Timothy D. Imler, MD, MS Leading Researcher in Health Care "Value" Utilizing Existing Data, Regenstrief Institute



Ashwin Nimhan Web & Data Visualization Developer, CNS Center, IU Bloomington PR^2



Dick Roskam Chief Medical Information Officer, Franciscan Alliance



Elisabeth Scheufele Deloitte Converge Health, Physician Informaticist



Faye Smith Manager, Data Core Services, Regenstrief Institute PR^2



Wanzhu Tu Biostatistician, Regenstrief Institute PR^2





Robin Wagner
Chief Science Officer: Office of Public Health Scientific Services, CDC



Randall Young
Geographer at CDC
PR^2

Directions:

See the contact page for the Cyberinfrastructure for Network Science Center, http://cns.iu.edu/contact.html or contact Samantha Tirey (sjhale@indiana.edu).

Acknowledgments:

This effort is supported by the Cyberinfrastructure for Network Science Center at Indiana University. A special thanks to the Social Science Research Commons (SSRC) for providing a location to host the workshop.

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