A Brief Introduction to iDSI

Robert J. Brunner
Professional Appointments:
Professor, Department of Accountancy and the School of Information Sciences
Director, University of Illinois, Deloitte Foundation Center for Business Analytics
Data Science Expert in Residence, Research Park, University of Illinois
Affiliate Faculty, Departments of Astronomy, Computer Science, Electrical & Computer Engineering, Informatics, Physics, and Statistics
Faculty Affiliate, Beckman Institute
Faculty Affiliate Computational Science & Engineering
Faculty Affiliate, NCSA
Who wants data science?
Our Competition
ILLINOIS DATA SCIENCE INITIATIVE
at the University of Illinois at Urbana-Champaign

ILLINOIS DATA SCIENCE INITIATIVE

Data Science is concerned with all aspects of the creation, management, and analysis of data, focusing in particular on the application of computational methods to digital data. Researchers, educators, and students from nearly every discipline across the University of Illinois at Urbana-Champaign already incorporate Data Science into their academic lives. There is no end to the areas where Data Science has made an impact—whether it’s text analytics, data-driven business intelligence, computational biomedicine, precision agriculture, multi-messenger astronomy, or any number of the other cutting-edge Illinois research themes. At the same time, as all aspects of our lives become inextricably data-driven, our Illinois community is passionate about bringing deeper and richer Data Science principals, collaborations, and resources to our campus. We want every member of our community to have the Data Science tools they need to solve any critical and seemingly intractable problem.
iDSI Governance

- Executive Committee
  - OVCR, Deans, CIO, Institute Directors

- Steering Committee
  - Leads: Brunner & Gropp
  - Broad campus representation
State of the Summits

- Data Science in Food, Energy, Water (4/20)
- Data Science in Business & Public Policy (4/21)
- Health Analytics (5/1)
- Social Media Analytics (5/2)
- Data Science in Education (5/12)
- Data Science Fundamentals (5/16)
Campus Wide Summits

- **University Data Day (August 23?)**
  - What data is available?
  - How can one access it?
  - Hackathon?

- **Data Science Day (September 26?)**
  - Research highlights
  - Industry engagement
  - Educational opportunities
  - Broad student involvement
Other iDSI Activities

• Applied Cloud Computing
  • Training undergraduate students
  • Demonstrating applied cloud computing skills

• Industry engagement?

• Other ideas?
Goal

• Proposal to campus for an Institute focused on Data

• Today (how could we use a data institute):
  • Health & Medicine Analytics
  • Education
  • Industrial Engagement
  • Others?

bigdog@illinois.edu