TFoDS Workshop Agenda

Thursday, April 28, 2016 (all general sessions at Gallery 1 & 2)

13:00-13:05 Welcome
13:05-13:45 Introductions by NSF Assistant Directors
   Fleming Crim, MPS AD
   James Kurose, CISE AD
13:45-14:00 Overview of the agenda, proposed goals
14:00-14:15 Around the room (short intros)
14:15-15:15 Short talks (25+5 each, M.W. Mahoney and P. Indyk)
15:15-15:45 Coffee break
15:45-16:00 Discussion on breakout group organization
16:00-16:40 Breakout groups 1, 2, 3, and 4
   (A1) Foundational Areas I (at Gallery 1)
   (A2) Foundational Areas II (at Gallery 2)
   (A3) Foundational Areas III (at Gallery 3)
   (A4) Foundational Areas IV (at Renoir)
16:40-17:40 Panel discussion on breakout group findings
   (15 minutes per breakout group)
17:40-18:00 Summary of the day, overview of the agenda

DINNER

(We will gather for pizzas and refreshments at the Community room at Quincy Plaza, 3900 Fairfax Dr.)
Friday, April 29, 2016 (all general sessions at Gallery 1 & 2)

8:30-9:00  Registration, Coffee

9:00-9:15  Agenda, Overview, Proposed Objectives

9:15-10:15 Short talks (25+5 each, A. Gilbert and D. Donoho)

10:15-11:00  Breakout groups B1, B2, B3, and B4
  (B1) What is Data Science; is it a new science. (at Gallery 1 & 2)
  (B2) The CS perspective: what mathematics and statistics are necessary? (at Gallery 3)
  (B3) The Math perspective: what CS and statistics are necessary? (at Masters Ballroom)
  (B4) The Statistics perspective: what CS and mathematics are necessary? (at Renoir)

11:00-11:30  Coffee break

11:30-12:30  Panel discussion on breakout group findings
  (15 minutes per breakout group)

12:30-14:00  Lunch Break

14:00-14:40  Breakout groups B5, B6, B7, and B8
  (B5) Data Science Courses: training undergraduate and graduate students. (at Gallery 1 & 2)
  (B6) Barriers to collaboration for Data Science: different philosophies, lack of common language, etc. How can the barriers be broken? (at Gallery 3)
  (B7) Applications: killer apps of the future? Interaction between foundations and applications? (at Masters Ballroom)
  (B8) Connections to industry: how would a Data Science center make industrial impact. (at Renoir)

14:40-15:40  Panel discussion on breakout group findings
  (15 minutes per breakout group)

15:40-16:10  Coffee break

16:10-16:50  Breakout groups B9, B10, B11, and B12
  (B9) Data Science Operational Constraints: security and privacy. (at Gallery 1 & 2)
  (B10) Data Science Operational Constraints: data provenance and reliability. (at Gallery 3)
  (B11) Making Data Science a rigorous Science: reproducibility, benchmarks, reliability, usability. (at Masters Ballroom)
  (B12) Making Data Science a rigorous Science: reproducibility,
benchmarks, reliability, usability. *(at Renoir)*

**16:50-17:50**
Panel discussion on breakout group findings
(15 minutes per breakout group)

**17:50-18:00**
Summary and overview of the agenda

**ADJOURN, DINNER**
Saturday, April 30, 2016 (all general sessions at Gallery 1 & 2)

8:30-9:00  Registration, Coffee

9:00-9:20  Agenda, Overview, Proposed Objectives

9:20-10:00  Breakout groups C1, C2, C3, and C4
           (C1) Data Science Centers: possible modalities (physical vs. virtual, necessary infrastructure). (at Gallery 1 & 2)
           (C2) Data Science Centers: benefits to Data Science workforce training. (at Gallery 3)
           (C3) Data Science Centers: promoting true interdisciplinarity; what will it take? (at Masters Ballroom)
           (C4) Data Science Centers: promoting interaction with practitioners, industry, and applications. (at Renoir)

10:00-11:00  Panel discussion on breakout group findings
              (15 minutes per breakout group)

11:00-11:30  Coffee break

11:30-13:00  Workshop summary: panel and discussion (organizing committee)

ADJOURN

Organizing Committee meeting starts after lunch