



How Far Can “Big Data” Take Us Towards Understanding Cities?

September 19th – 21st, 2013

Santa Fe Institute

Agenda

Thursday, September 19th, 2013

Workshop DAY 1

**SANTA FE INSTITUTE
Robert Noyce Conference Room**

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| 8.15 | <i>Shuttle from Hilton Hotel to Santa Fe Institute</i> |
| 8.30 | BREAKFAST |
| 9.00 – 9.40 | Welcome and opening remarks |
| 9.40 - 10.35 | <i>The History and Promise of Urban “Big Data”</i>
Colin Harrison (IBM Smarter Cities Project, retired) |
| 10.35 – 10.50 | COFFEE BREAK |
| 10.50 -Noon | <i>Big Data and Smart Cities: New Research, Educational Possibilities and Business Opportunities I</i>
Charlie Catlett (Urban Center for Computation and Data, University of Chicago)
David Maier (Department of Computer Science, Portland State University) |
| Noon – 1.30 | LUNCH |
| 1.30 -3.00 | <i>Big Data Application: Urban Mobility</i>
David L. Bragdon (Executive Director, Transit Center),
Eric Miller (Department of Civil Engineering, University of Toronto)
Marta C. González (Department of Civil and Environmental Engineering, Massachusetts Institute of Technology) |
| 3.00 – 3.50 | <i>Big Data and Cities: Urban Planning’s Perspective</i>
Paul Waddell (Department of City & Regional Planning, UC-Berkley)
Clio Andris (Santa Fe Institute) |
| 3.50 – 4.10 | TEA |

- 4.10 – 5.30** **Plenary Discussion**
- 5.30** **Cocktails at SFI**
- 6.00 – 6.30** **Keynote Address: *What Did We Learn About the Scientific Payoff from Big Data From The Human Genome Project?***
Ari Patrinos (Center for Urban Science and Progress, New York University)
Noyce Conference Room
- 6.30 – 8.00** **Dinner on the portal at SFI**
- 7.30 and 8.00** *Shuttle will leave for Hilton Hotel*

Friday, September 20th, 2013
Workshop DAY 2

SANTA FE INSTITUTE
Robert Noyce Conference Room

- 8.15** *Shuttle from the Hilton Hotel to Santa Fe Institute*
- 8.30** **BREAKFAST**
- 9.00 – 10.10** ***Big Data + Science = Understanding. So What?***
Luis M.A. Bettencourt (Santa Fe Institute)
Geoffrey West (Santa Fe Institute)
- 10.10 – 11.20** ***Opportunities for Big Data in Architecture & Planning***
Nicholas de Monchaux (College of Environmental Design, UC-Berkeley)
Gerhard Schmitt (Information Architecture, Swiss Federal Institute of Technology Zurich)
- 11.20 – 11.35** **COFFEE BREAK**
- 11.35 – 12.15** ***Big Data and Smart Cities: New Research, Educational Possibilities and Business Opportunities II***
Constantine Kontokosta (Center for Urban Science and Progress, New York University)
- 12.15 – 1.30** **LUNCH**

- 1.30 - 2.40** ***Big Data Application: Crime***
Martin Short (Department of Mathematics, UCLA),
Rob Sampson (Department of Sociology, Harvard University)
- 2.40 – 3.50** ***Big Data Application: Urbanization, Energy and Sustainability***
Kelli Stokes (School of Forestry & Environmental Studies, Yale University)
Kevin Gurney (School of Life Sciences, Arizona State University)
- 3.50 – 4.05** **TEA**
- 4.05 – 6.00** **Plenary Discussion**
- 6.00** *Shuttle will leave for the Hilton Hotel*

Please enjoy exploring Santa Fe's fine restaurants on your own for dinner this evening

Saturday, September 21st, 2013
Workshop DAY 3

SANTA FE INSTITUTE
Robert Noyce Conference Room

- 8.15** *Shuttle from the Hilton Hotel to Santa Fe Institute*
- 8.30** **BREAKFAST**
- 9:00 – 10:10** ***Urban Big Data and Federal Government Databases***
Deborah Strumsky (Department of Geography & Earth Sciences, University of North Carolina-Charlotte),
Cavan Capps (U.S. Census Bureau)
- 10:10 – 11:20** ***Big Data for Development***
Speakers TBD
- 11:20 – noon** ***Synthetic Remarks***
José Lobo (School of Sustainability, Arizona State University)
- Noon – 2:00** **Working Lunch / Plenary Discussion**
- 1.00 and 2.00** *Shuttle will leave for the Hilton Hotel*