

The background image is a wide-angle aerial photograph of the New York City skyline during sunset. The Hudson River is visible on the left, and the East River and Brooklyn Bridge are on the right. The One World Trade Center is prominent on the left side of the frame. The city is densely packed with buildings of various heights, and the sky is filled with warm, golden light.

November 10, 2019, New York

Data: Acquisition to Analysis

A SenSys/BuildSys 2019 Workshop

WELCOME!

Thank you for joining us!

A very brief history of DATA

(It's only been around two years... 😊)

- The IPSN'18 business meeting discussed open access & reproducibility...
- Shijia Pan, Pei Zhang, Jie Gao, and Chien-Chun Ni created DATA
 - First run at SenSys 2018
 - Most popular workshop!
 - 14 datasets collected and promoted
 - Conclusion was to do it again
 - Refine criterion and filter for dataset submissions
 - Grow beyond 'just datasets' to understand data issues broadly

The origins and goals of DATA'19

- Introducing the joint SenSys / BuildSys DATA'19 workshop
 - SenSys: Say lots of positive things about a workshop and you end up running it
 - BuildSys: Flora Salim and Mikkel Baun Kjærgaard were starting a similar one!
 - Long history of these communities working together: join forces!
- The dual goals of DATA:
 - Collect and promote interesting, useful, high fidelity datasets
 - Became Dataset papers (1-2 page short papers)
 - Explore questions around the collection & use of data
 - Became Full papers (3-5 page papers)

DATA'19 by the numbers

- Submissions received 2 reviews, then a 3rd if there was not consensus
 - (Average PC load 2.75 reviews / member)
- 22 submissions total
 - 9 full papers
 - 13 datasets
- Accepted 16 submissions (73%)
 - 5 full papers (56%)
 - 11 datasets (85%)
- Nice growth from DATA'18:
 - Accepted 14/15 (93%) datasets

Today's Agenda

- DATA is at its heart a workshop
 - Discussion is highly valued & encouraged
 - *What brought you to DATA?*
- Session structure
 - Paper presentations
 - Mixture of full papers and datasets
 - “End” discussion
- Breakouts & discussion sections

Session 1: Who's There?

Coffee Break

Session 2a: The
Built Environment

BuildSys Breakout

Session 2b: The
Wireless Channel

SenSys Breakout

Lunch

Session 3: Great Outdoors

Session 4: Details Matter

Coffee Break

Group Discussion

Early seeding of breakout & group discussion ideas...

- What makes a good dataset?
 - How to communicate, enforce(?) these properties
- How to effectively promote datasets
 - What can DATA do
 - What can we as a community do outside DATA?
- What should the future of the DATA workshop be?
- What datasets are missing that are in demand?
 - How do we promote / reward their collection?
- What is different, the same, about SenSys/BuildSys DATA?

Promotion of DATA and datasets at SenSys!

- SenSys chairs have agreed to give us a little time in the main program
- I will use this time to promote your cool datasets
 - One slide
 - With one “cool graph”
 - With optional “cool phrase”
 - Goal is to hook people, get them to look more
- <https://j2x.us/data19>
- (open to other uses of this time as a breakout topic!)

Thank you to all of our wonderful organizers, committee-members, and volunteers!

- DATA'19 Chairs
 - Shijia Pan, Flora Salim, Mikkel Baun Kjærgaard, and Pat Pannuto
- DATA'19 Advising Committee
 - Jie Gao, Pei Zhang, Prabal Dutta, Jie Liu

Thank you to our wonderful Program Committee!

- Jorge Ortiz, Rutgers University
- Wen Hu, University of New South Wales (UNSW)
- Olga Saukh, TU Graz
- Jun Han, National University of Singapore
- Brano Kusy, CSIRO
- Chris Xiaoxuan, Lu University of Oxford
- Wan Du, University of California, Merced
- Arun Vishwanath, IBM Research Australia
- Clayton Miller, National University of Singapore
- Salvatore Carlucci, NTNU
- Rachel Cardell-Oliver, The University of Western Australia
- Zoltan Nagy, UT Austin
- Mohammad Saiedur Rahaman, RMIT University
- Fisayo Caleb Sangogboye, University of Southern Denmark
- Yongli Ren, RMIT University
- Jason Koh, University of California, San Diego

An enormous thank you to our Dataset Management Chair

- Chien-Chun Ni, Yahoo! Research



Quick Logistical Things

- There's no food or drink allowed in this building
 - So coffee breaks are in the quad in the next building over
 - We'll find them together?
- Restrooms
 - Women's down the hallway through the doors
 - Men's are on floors 1, 3, and 7 (we're on 5)

The background image is a wide-angle aerial photograph of the New York City skyline during sunset. The Hudson River is visible on the left, and the East River and Brooklyn Bridge are on the right. The One World Trade Center is prominent on the left side of the frame. The city is densely packed with buildings of various heights, and the sky is filled with warm, golden light.

November 10, 2019, New York

Data: Acquisition to Analysis

A SenSys/BuildSys 2019 Workshop