

CPS Collaborations Opportunities in Asia

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Microsoft Research

- Research lab locations

- Redmond, Washington (Sep, 1991)
- Cambridge, UK (July, 1997)
- **Beijing, China (Nov, 1998)**
- Silicon Valley, California (July, 2001)
- Bangalore, India (Jan, 2005)
- Boston, MA (Sep, 2008)
- New York City (May, 2012)



Cambridge



Beijing



Bangalore

Opportunities in Asia

Strong focus on education & engineering

Big talent pool

Largest Internet and mobile user population

Aspiration to innovate for Asia and the world

MSR Asia in the Past 14 Years

- Advance the state-of-the-art in computing research, and share the results at top academic venues (3000+ pubs, 20+ best papers)
- Rapidly transfer innovations to Microsoft products and ensure the Company has a future (300+ tech transfers)



Academic Collaboration

Academic Exchange

Annual Computing in the 21st Century Symposium

- *Invite leading computer science researchers from academia and industry and students from universities*

Verified Software Workshop

- *Technically designed by Dr. Tony Hoare & academicians of Chinese Academy of Sciences*
- *Invited most influential researchers in this area*
- *240 attendees from 31 universities*



Talent



Internship Program



Microsoft Fellowship



Young Faculty Program

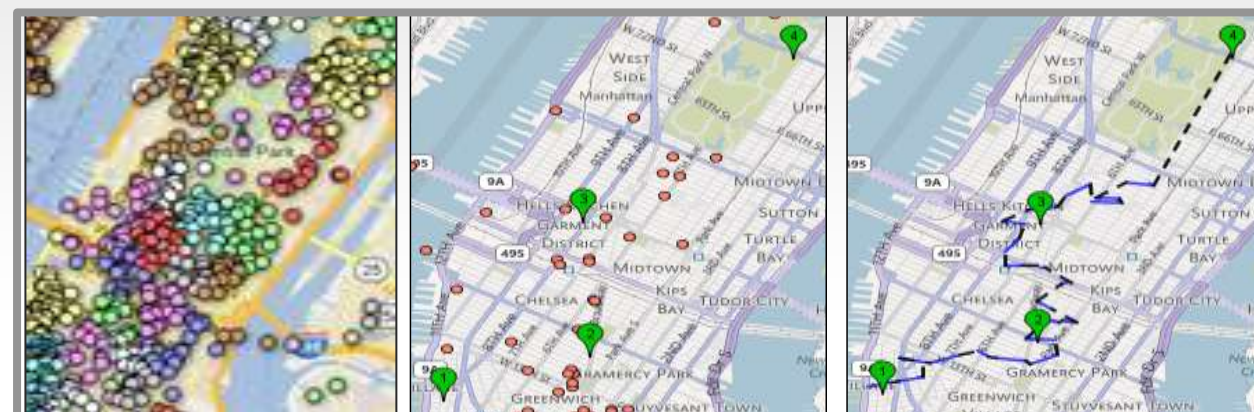
Collaboration

Mainland China: Great Wall Program

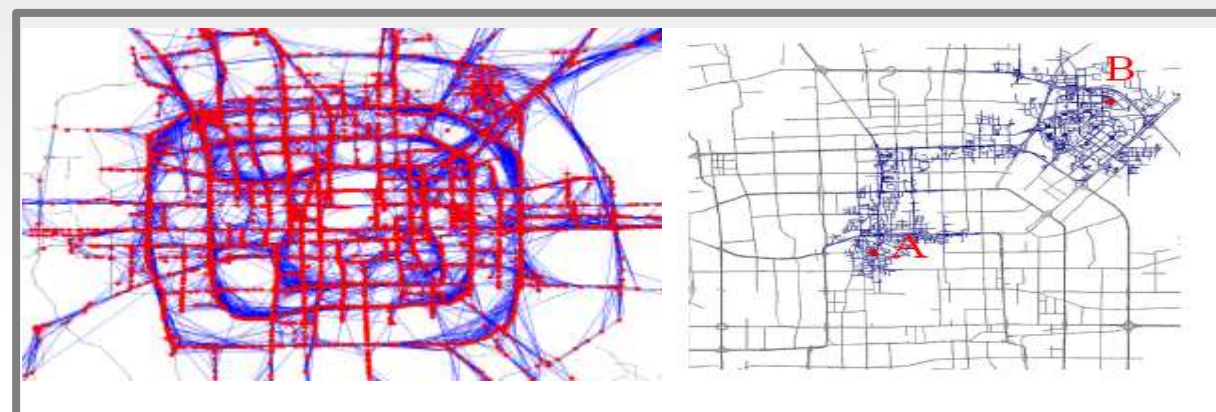
Taiwan: NCP (Networked Communications Program)

Japan: Mt. Fuji Program

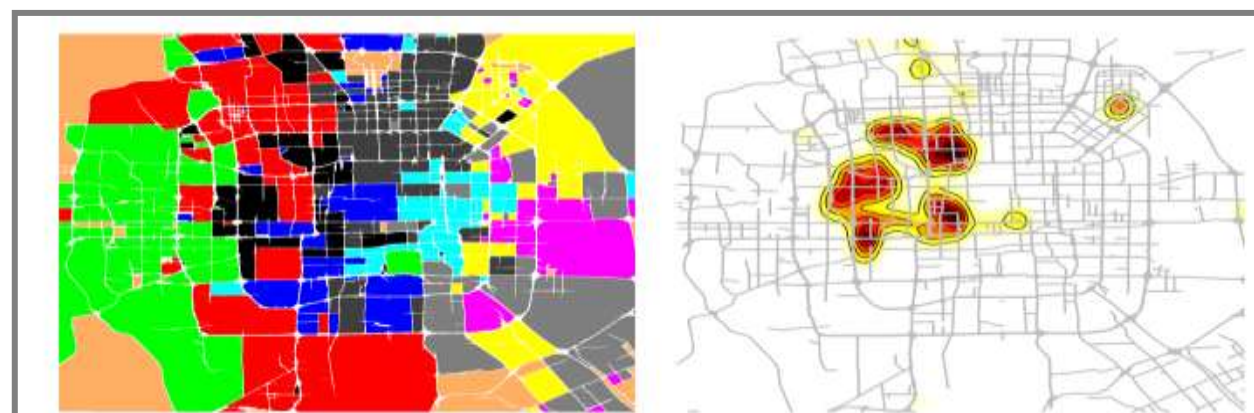
Korea: MSR-KAIST Center



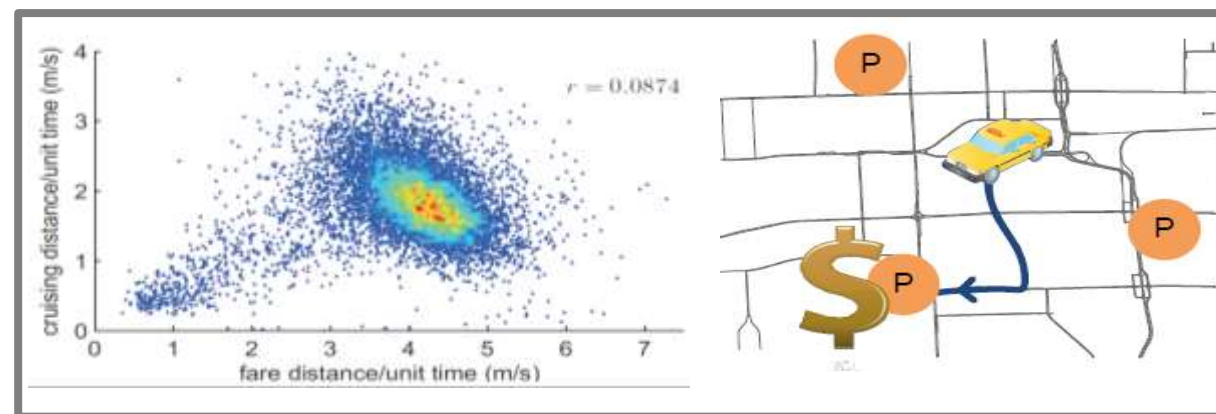
Route Construction from Uncertain Trajectories



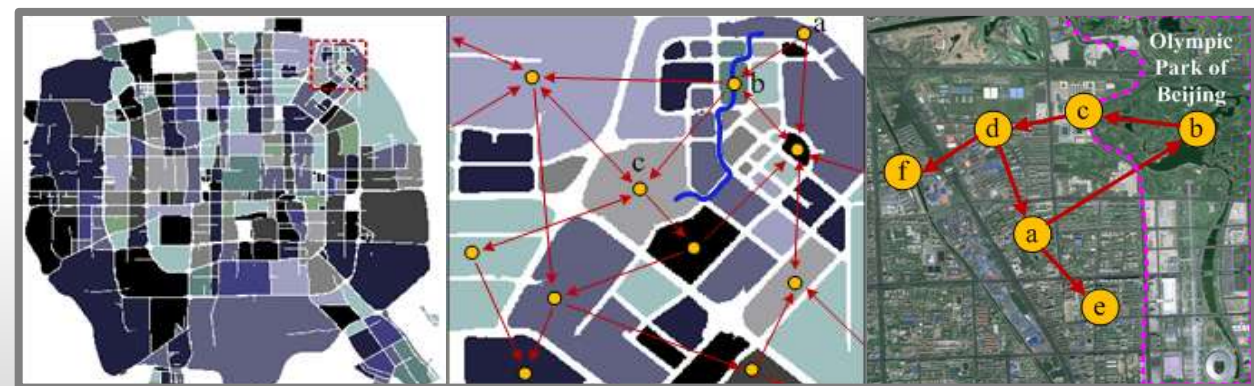
Finding Best Driving Direction



Discovering Functional Regions



Passengers-Cabbie Recommendation



Anomalous Event Detection



Urban Planning

A few observations

- **Broaden the base of CPS**
 - Diverse apps, mobile devices, big data and the cloud
- **Leverage geo-specific CPS themes**
 - IoT/Smart City in China, Japan, Korea, ...
- **Offer online courses on CPS**
 - Reach the next billion in China, India, ...