

CRAWDAD

CRAWDAD.cs.dartmouth.edu

 A Community Resource for Archiving Wireless Data At Dartmouth

 Archive of wireless-network traces

 Tools for trace collection and analysis

 Support for the research community

 Event calendar

 Bibliography

 Annual workshop at Mobicom

 Co-led by David Kotz and Tristan Henderson

 Hosted by the Center for Mobile Computing at Dartmouth College

 Funded by US National Science Foundation

Invited talk

Ravi Jain, DoCoMo USA Labs


What data do you need?

- ☞ What sort of wireless?
 - ☞ WiFi infrastructure networks; mesh networks?
 - ☞ MANET, VANET
 - ☞ Cellular networks
- ☞ What do you want to learn from the data?
 - ☞ Traffic amounts, packet traces, ...?
 - ☞ Geographic mobility; network mobility, ...?
- ☞ What metadata do you need?
 - ☞ Dates, location, nature of population traced...?

What tools do you need?





 Collection

 Sanitization – to protect user privacy








 Analysis

 ...?





Human Subjects

-  In the U.S., **all** federally-funded research involving human subjects must be approved by the Institutional Review Board (IRB).
-  Some IRBs have a local name.
-  Some IRBs apply this rule to *all* research.
-  **Research** is defined as a systematic investigation designed to develop or contribute to generalizable knowledge, or investigation designed to test a hypothesis.

Protecting Human Subjects

-  How do we protect human subjects?
 -  Secure data-collection infrastructure
 -  Secure data storage
 -  Careful sanitization
 -  Ethical data analysis
-  Reduce risk to human subjects
 -  Main risk is loss of confidentiality

Educational uses

-  Use of CRAWDAD data in courses
-  We invite users to contribute
 -  Course modules
 -  Laboratory exercises

Anything else?

 So... you want to use CRAWDAD data!

 visit crawdad.cs.dartmouth.edu

 agree to the simple license terms

 So... you want to contribute some data!

 contact us at crawdad@cs.dartmouth.edu

CRAWDAD



Any of various freshwater crustaceans of the genera *Cambarus* and *Astacus*, resembling a lobster but considerably smaller.

<http://dictionary.reference.com/search?q=crayfish>

<http://crawdad.cs.dartmouth.edu>

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