DISPATCH: PUBLISHING FOR CONFLICT REPORTING

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BACKGROUND

Citizen journalism is changing the world

...but...

"When your computer can be confiscated and your emails be viewed, there are times when meeting in person, taking notes on a notepad and hiding the notepad is the most secure way to conduct journalism"

- Rebecca MacKinnon
  former CNN journalist, co-founder Global Voices Online
Dispatch: A secure, intuitive mobile publishing tool for journalists

**Journalism**
Susan McGregor (Columbia)
  background with WSJ
Madeline Ross (Columbia)
specializes in digital communication

**Computer Science**
MobiSocial team at Stanford
  secure group communication
Networking lab at Columbia
  opportunistic networks

**Publishing**
Chris Haseman (Tumblr)
  commitment to publish
SYSTEM ARCHITECTURE

Identity-Based Routing

Publisher

Publishing Server

Identity Provider

Key Issuer

= signed and encrypted by identities

SSL
IDENTITY-BASED ROUTING

- Messages are encrypted and signed using Identity-Based Cryptography (IBC)\textsuperscript{a}

- The system routes by hashed identities rather than by IP addresses, allowing users to send and receive messages from anywhere

- The message contains all necessary recipient information, allowing for ad-hoc message routing of signed and encrypted messages\textsuperscript{b}


\textsuperscript{b} T. J. Purtell, I. Vo, and M. S. Lam. A Mobile Social Network on ESP: an Egocentric Social Platform
SNEAKERNET

NO
INTERNET

DESTROYED
DEVICE
ELECTION DAY IN NYC

Congressional candidate Mark Murphy greets voters commuting to Manhattan at the Staten Island ferry terminal.

COMMUNITY BUILDING

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