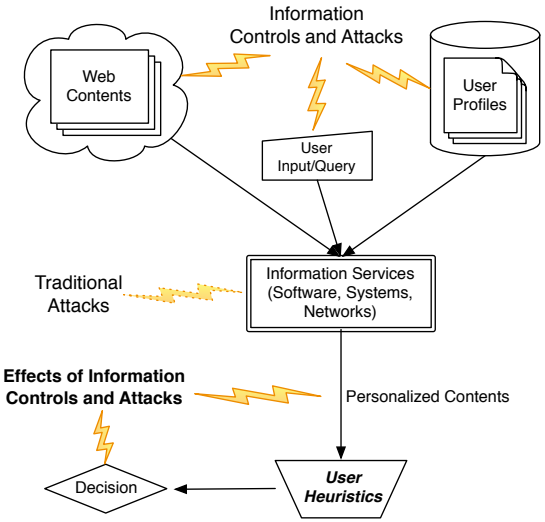
EPICA: Empowering People to Overcome Internet Controls and Attacks

Challenge:

- Attackers can manipulate how users receive information and services for financial and political gains



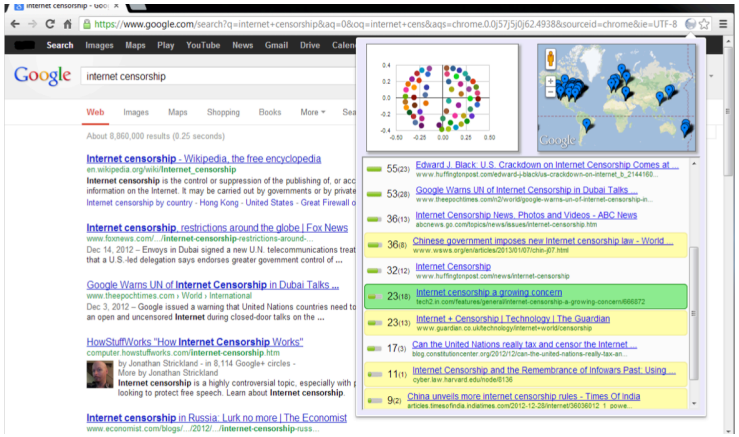
The new threat: misinformation

Scientific Impact:

- A comprehensive effort to counter a new class of cyber threats
  - In-depth analysis of information controls and attacks and their harmful effects
- New approaches to secure information services

Solution:

- Conceptual framework with both technical and policy analysis and models
- Detection framework with distributed network measurements, NLP and ML modeling, and security analysis; validated with user studies



Solution: inform users, provide more complete, alternative views

Broader Impact:

- Help all Internet users mitigate information controls and attacks
- Tools and services made freely available to the public
- Tens of thousands users are using Bobble to counter attacks on search results

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