Activating the Social Workscape

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UC Irvine
ISR
June, 2003
Outline

• Collaborating …
  and telling your computer about it
• Social networks, temporal patterns
• Automatically recognizing patterns
• Design implication
(not so) Secretly, You Are Collaborating

- Group-edited documents
- Shared calendars
- Social navigation
  - Amazon recommendations?
Call for participation, Workshop on the Temporal Aspects of Tasks.

Workshop at HCI2003, University of Bath, U.K.

Monday 8th September 2003

All day workshop

Contributions in the form of 6 page position papers are invited for a workshop at HCI2003 on the Temporal Aspects of Tasks.
My view of today
package sna.graphdisplay;

import java.awt.Color;
import java.util.*;

import sna.util.ColorArchive;

/**
 * @author danyelf
 */

public class Colorizer {

    static Object getNext(Collection s) {
        // pick some object, any object
        Iterator iter = s.iterator();
        return iter.next();
    }

    static private int[][] APSR(int[][] base) {

        ...
    }

    ...
}
Making Relationships Visible

• To you
• To your computer
Structured Interaction

• Repeatable patterns
• People have roles (often multiple)
• Detectable social arrangements
Types of Patterns

• Social network
• Temporal: schedules and changes
Detecting Patterns

• Email outbox
• Database
• Visualization of results
• Interviews, and analysis of visualizations
From: A@here.now
To: X@uci.edu, Y@berkeley.edu
Date: Monday, 4:00 pm

Traditional

Ego-Centric

Temporal

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Field Site

• IBM/Cambridge
• In association with research group
• Extended interviews
  – Researchers
  – Developers
  – Managers and Secretaries
• Ran the program on their mail... and looked over their shoulders
Results

• Patterns are based on real data from participants
• The images are a mix of UCI and IBM results, anonymized
• Recurrent, meaningful patterns tied to stories and events
(temporal patterns)
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Results

• regularity
• detectable, meaningful patterns
  – Manager
  – Butterfly
  – Onion
  – Schedules
  – Changes in time
Future Plans

• Tools that know about patterns
• Tools that know about people
Other media

- Demo
- Poster
Thanks!

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- http://www.ics.uci.edu/~danyelf