Towards “Community Web”

or yet another CSCW (Community-Supported Creative Web)

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Information and Communication Activities

- Two layers for our activities
  - Information layer only concerns explicitly represented and processed information.
  - Communication layer concerns potential information. Potential information can be revealed through communication among people.

Communication Layer

Information Layer

Create

Collaborate

Present

Donate

Relate

Collect
Information and Communication Activity Navigation (ICAN)

- Support by computers for six categories of ICA

![Diagram showing ICAN categories: Relate, Collaborate, Present, Collect, Create, Donate.]

- Community Navigator: Collaborative Scheduling Support System for Conferences
- Social Scheduler: Collaborative Scheduler for Personal Resources
- NMM: Re-configuration of personal human network
- Kmedia: Finding relationship via WWW bookmarks
- TelMeA: Expressive Media for Online Communities
- Semblog: Collaborative Personal Knowledge Publishing via Weblog

Semblog Project

- Applying Weblog and Semantic Web technologies for ICA support.
- Model
  - “Person” on Web
    - Weblog: Information archive for individuals
    - Foaf
  - Interpersonal relations
    - Links between Weblogs
    - Foaf relations
- Steps
  - Phase 1: Platform
    - Metadata design
    - Basic tools for seamless support in searching, editing, and publishing
  - Phase 2: Applications
    - Recommendation
    - Search
Semblog Products

- RSS-based information exploiter
  - Extension of RSS aggregator
  - Seamless support of searching, editing, and publishing
    - Searching: search from myself (egocentric search)
    - Editing: (weblog tools)
    - Publishing: Three ways
      - Check: which weblogs I am reading
      - Clip: which entries I am interested
      - Post: what I am thinking
  - Developed Tools
    - RNA: Server-side scripts
    - glucose: Windows client

RNA: Personal RDF Suite

http://www.semblog.org/

- Extension of RSS aggregator
  - User can
    - Register weblogs (Check)
    - View entries from various aspect (HTML/RSS)
    - Preserve interested entries (Clip)
    - (Post)
  - System does
    - TrackBack extraction
    - Keep Metadata-added cache
- Publishing Checked, Clipped, and Posted entries
  - Re-distribution of RSS
- FOAF Management
  - FOAF TrackBack (formally “acsh”)
glucose: RSS Aggregator / Weblog Editor
http://glucose.dip.jp/

- A client program to support searching, editing, and posting
  - User can
    - Register weblogs (Check)
    - View weblogs with 3-pane interface
      - TrackBack extraction (Followed by “Re：“)
    - Preserve entries (Clip)
    - Post via weblogs (Post)
  - Anonymous information distribution by P2P
  - View FOAF
Community Web Applications

- Egocentric Search Control (ESC)
  - Search for Authoring
  - Rank contents close to authors
    - Distance in graph:
    - Distance by semantic similarity
- Construction of Egocentric Network
  - From links from/to their entries
  - Links and trackbacks
  - From FOAF links

Community Navigator
Cooperative Scheduling System for Conference
Community Navigator
Cooperative Scheduling System for Conference

Recommendation

- Recommendation by pattern similarity
  
  *Naïve collaborative filtering*
  
  - Paper recommendation
  - Person recommendation

- Recommendation by personal network
  
  *Reply on selection by friends*
  
  - Paper recommendation
  - Person recommendation
Recommendation

Foaf and Social Networking

- Orkut / GREE(jp) / mixi(jp) / ...
  - Network for networking
  - Closed systems
- Foaf
  - Open systems
  - But what is motivation? What purpose?
- Our model (ICA)
  - Building interpersonal network and exchanging information should be done simultaneously