

FIT-IT: Secure 2.0



Scientific and technical objectives 1/2

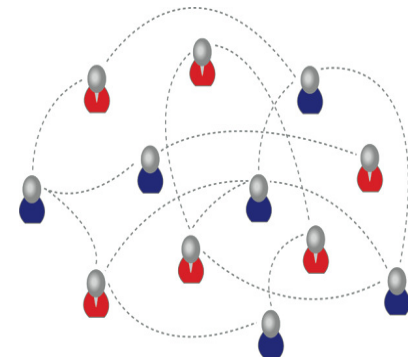
- The technological transition to Web 2.0 brings in new security and privacy concerns
 - Secure and trustworthy data exchange
 - Semantic security concerns
- As a result the shared information can be combined with personal/organizational policies to protect the information in a collaborative environment like Web 2.0.

Scientific and technical objectives 2/2

- Secure 2.0 was aiming to provide reusable foundation components for information sharing ... such as **policy storage and integration, semi-automatic information annotation, semantic pattern matching**
- The proposed components will be also **applied to the MindMeister** product (a Web 2.0 mind mapping tool)

Motivations

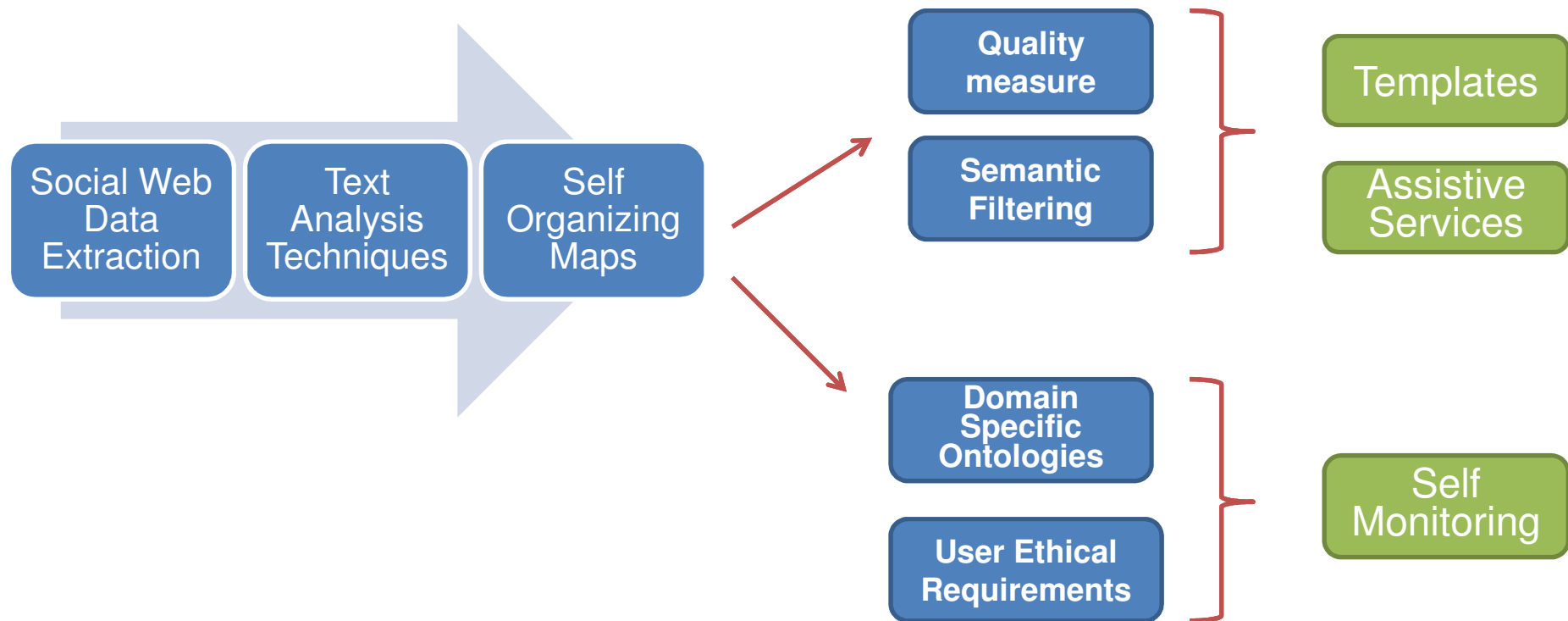
- Disclosure of personal/organizational information in Web 2.0 via social networks, digital contributions & data feeds in a trustworthy way
- The data mining in the user generated entities and extracting the derived knowledge and information patterns is the new threat to privacy of individuals
- Another major challenge is to “give end-users security controls they can understand and privacy they can control for the dynamic, pervasive computing environments of the future” (CRA 2003).



Scenarios

- **Assistive services** : Specific Web 2.0 contents should provide assistance for users who create similar contents
- **Resource sharing** : Sharing information with user users (e.g. social networks)
- **Self-monitoring of trust level** : The data contributed by users on Web 2.0 is a good resource that can reflect the individual / organizational behavior and attitude.

Vision / Big Picture



Tasks and Challenges of the Secure 2.0 Proposal

- I. Establishing a generic and scalable platform for harvesting the knowledge of generic Web 2.0 nodes
- II. Defining standard methods for analysis of Web 2.0 documents according to the specific resource data models
- III. Supporting the user during development of Web 2.0 content by formal identification and specification of relevant information, expected entries and templates
- IV. Providing a **self-monitoring** tool for evaluating individual/organizational presence on the web

Dissemination: Papers 1/2

- Context Oriented Analysis of Web 2.0 Social Network Contents (MindMeister Use-case); Amin Anjomshoaa, Vo Sao Khue, A Min Tjoa, Edgar Weippl, Michael Hollauf; Proceedings of the Asian Conference on Intelligent Information and Database Systems (ACIIDS 2010), Springer LNCS (**Best Paper Award**)
- Combining and Integrating Advanced IT-Concepts with Semantic Web Technology - Mashups Architecture Case Study, Amin Anjomshoaa, A Min Tjoa, Andreas Hubmer; Proceedings of the Asian Conference on Intelligent Information and Database Systems (ACIIDS 2010), Springer LNCS
- Privacy Preservation Through Process Views: A. Tahamtan and J. Eder, Proc. of The Advances in Mobile Computing and Applications: Security, Privacy and Trust (AMCA'10) in conjunction with the 24th AINA
- View Driven Federation of Choreographies: A. Tahamtan and J. Eder, Proc. of The 2nd Asian Conference on Intelligent Information and Database Systems (ACIIDS'10)
- A Survey on Process Equivalence: A. Tahamtan, J. Eder, IEEE Transactions on Service Computing, submitted

Dissemination: Papers 2/2

- A.Tahamtan, J.Eder: View Driven Federation of Choreographies, International Journal of Intelligent Information and Database Systems, invited paper.
- A SOM-Based Technique for a User-Centric Content Extraction and Classification of Web 2.0 with a Special Consideration of Security Aspects: A. Tahamtan, A. Anjomshoaa, E. Weippl and A.M. Tjoa, Proc. of 4th International Conference on Knowledge Science, Engineering & Management (KSEM 2010), To Appear
- Privacy Aspects of Mashup Architecture; Gerald Bader, Amin Anjomshoaa, A Min Tjoa; International Workshop on Privacy Aspects of Social Web (PASWeb 2010), To Appear
- Exploiting Ontology for Software License Agreements; Muhammad Asfand-e-yar, Amin Anjomshoaa, Edgar R. Weippl, A Min Tjoa ;International Journal of Software and Informatics (IJSI), Vol. 4, No.1
- Invited paper for special issue for the International Journal of Intelligent Information and Database Systems (IJIIDS)

Dissemination: Dissertations

- Amin Anjomshoaa, defended in December 2009, “Integration of Personal Information into Global Processes”
- Vo Sao Khue, “Personal Resource Planning in Collaboration Environments for Enterprise 2.0 Context”

Dissemination: Project Presentations

- IMPACT presentation, SBA, Austria
- King Mongkut's University of Technology, Thailand
- Universitas Indonesia, Indonesia
- Czech Technical University Prague
- Institut Teknologi Bandung, Indonesia
- University of Linz
- Ho Chi Minh City University of Technology, Vietnam
- University of Regensburg

Dissemination: Workshop

- First International Workshop on Privacy Aspects of Social Web and Cloud Computing (PASWeb-2010)

Held in conjunction with the Second IEEE International Conference on Privacy, Security, Risk and Trust (PASSAT2010), Minneapolis, USA, August 19-22, 2010

Thank you very much for your attention!