
RWI Breakout Session Summary

Albena Mihovska

ASPIRE Co-Technical Manager

Center for TeleInfrastruktur (CTIF), Aalborg University, Denmark

albena@es.aau.dk

Participants

- Mirko Presser,
 - Manfred Hauswirth, Claudia Diaz,
 - ASPIRE; SENSEI; C-CAST, AWISSNET, WISEBED, FIRE,
 - Full details on : www.ict-sensei.org/fiawiki
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- RWI community is growing (CuteLoop, EPoSS)
 - Workshop is envisioned at the end of February 2009

RWI Essentials and Challenges

- RWI: implied by the uprise of technologies (e.g., RFID; sensor networks, short-range) and their commercial introduction
- Based on solid technological advances it poses a number of questions:
 - Do we need RWI and why?
 - How do we manage and scale RWI networks (e.g., heterogeneity of devices and users, large variety of context and networked knowledge)?
 - How do we handle security, privacy and trust?
 - How do we handle storage and querying of dynamic information?
 - How do we integrate successfully the social aspects?

RWI Challenges Ahead

- Scalable semantic infrastructure needed
- Advanced context functionalities for transparency and awareness
- Security and privacy protection in the RWI?
 - Privacy protection mechanisms needed alongside with surveillance technologies uprise to bring about sufficient security
 - Transparency
- Trust establishment in an ad-hoc manner (on-the-fly) : imposed by heterogeneity and the huge number of sensor nodes that need to be interconnected
- Merge technological advances to business processes

Some more things to consider...

- Mediate interaction between applications or parts of the application through choice of an appropriate architecture

- Trend towards ubiquitous computing, mobility and dynamic reconfigurability: are RWI solutions 'innovation-proof'?

- How do we ensure consistent observation, security, trade offs between autonomy and interdependence for the different subsystems, definition and implementation of resource management policies
 - COLLABORATION is KEY!