iDTV Research Opportunities

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Outline

- Intro
- Other Devices
- Mobile TV
- Responsive Television
- User as Content Creator
- 3DTV
- Ambient Intelligence
- P2P TV
- Social Television
Intro

Workshops:
- Social Interactive Television
- Personalization in iTV
- Ambient Entertainment
- Interactive Applications for Mobile TV

Tutorials:
- Authoring and delivering new forms of interactive TV
- User-generated Content
- Modern Techniques in Professional Film & TV Productions
Responsive Television

http://www.ist-nm2.org/

Accidental Lovers is a participatory black comedy about love for television, mobile phone and Internet.

The engager can affect in real-time the unfolding drama of the unlikely romantic couple, Juulia in her sixties and Roope in his thirties.
Responsive Television (Accidental Lovers)

- Viewers can affect the unfolding drama by sending mobile messages to a system that triggers on-screen events based on the keyword recognition.
- Active viewers can participate in the drama and have an effect as individuals for triggering a single thought (voiceover audio clip) for either one of the main characters.
- Viewers as community then determine the outcome of the story (selections of video scenes) as the keyword data cumulates during the broadcast.
- Accidental Lovers is currently on production phase and was broadcasted on fall 2006 on YLE-1.
Viewer-Side Enrichment

http://www.cwi.nl/projects/Ambulant/
3D Graphics in TV

3D Graphics in TV

http://piste.intranet.gr/
3DTV

https://www.3dtv-research.org

Figure 3-10 The “inmaterial” walk-through FogScreen creates an image which seems to float in thin air.
Ambient Intelligence (ambilight)
Ambient Intelligence

http://www.passepartout-project.org/
Social Television

http://web.media.mit.edu/~stefan/hc/projects/breakoutfortwo/
Social Television

http://web.media.mit.edu/~stefan/hc/projects/reflexion
P2P

http://wiki.ebu.ch/p2p/Main_Page

http://tribler.org/
P2P

TVU Player:
P2P / Social TV

http://www.joost.com
Social Television

Amigo TV: sharing personal photos and home videos, buddy list, personal communication [Alcatel]
Social Television

Telbuddies: direct communication like instant messaging and indirect communication like cooperating in a team to win a quiz [U. of Hasselt]
Some Papers

K. Baker. (2006). *Intrusive Interactivity is not an Ambient Experience*

P. Cesar et al. (2006) *Benefits of Structured Multimedia Documents in IDTV: The End-User Enrichment System*


- TV-Anytime and MPEG-4
- Intra-program content management

P. Hulsen, E. Vlemmix, and K. Baker. (2003). *Peer-to-Peer Internet Television*