Telling Stories and Commenting on Media: The Next Generation of Multimedia Authoring Tools

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Motivation
Motivation
Motivation
Motivation

End-user

Broadcasters
Motivation
Motivation
Problem

• Personalization: shared user experience;
  ❌ Content you might like
  ✔ Share your view with people you know

• Broadcasters cannot do this, only end-users can;

• Ways to personalize media: Tell stories and comment on media.
Problem

• Personalization: shared user experience;
  ✓ Content you might like

  X Content you might dislike
  ✓ Share your view with people you know

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• Ways to personalize media: Tell stories and comment on media.
Problem

• Personalization: shared user experience;
  ✓ Content you might like
  ✓ Share your view with people you know

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• Ways to personalize media: Tell stories and comment on media.
Problem

• Personalization: shared user experience;
  X Content you might like
Problem

• Personalization: shared user experience;
  ✗ Content you might like
  ✓ Share your view with people you know
Problem

• Personalization: shared user experience;
  - Content you might like
  - Share your view with people you know

• Broadcasters cannot do this, only end-users can;
Problem

- **Personalization: shared user experience;**
  - \( \times \) Content you might like
  - \( \checkmark \) Share your view with people you know
- **Broadcasters cannot do this, only end-users can;**
- **Ways to personalize media: Tell stories and comment on media.**
Related Work

- Jens F. Jensen: classifications and typologies in the new media landscape;
- Janet H. Murray and Sergio Goldenberg: design framework for creating iTV products;
- David A. Shamma et al.: Watch what I watch;
- Luiz Fernando G. Soares et al.: NCL and Ginga;
- Maria da Graça Pimentel et al.: Viewer-side enricher for Brazilian DTV system;
- Marianna Obrist et al.: Ethnographic aspects in iTV.
Timeline

1st year
- Popular services
- State-of-the-art

2nd year
- Prototypes implementation
- Actors & Needs
- New authoring models
- Theoretical models

...
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1\textsuperscript{st} year

- Popular services
- State-of-the-art

Current stage

2\textsuperscript{nd} year

- Prototypes implementation
- Actors & Needs
- New authoring models
- Theoretical models

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Ex. 1: Pan/Zoom Tool

- Allow authors to define a dynamic storyline composed by audio commentaries and visual effects over images.
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Ex. 2: TA2 MyVideos

- Enable users to create personalized videos of an event based on content posted to a shared media pool;
- Unlike many collaborative systems, the goal is to serve as a resource that can be used by a community to serve individual needs.
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• Unlike many collaborative systems, the goal is to serve as a resource that can be used by a community to serve individual needs.
Ex. 3: Captioner

- Used for incidental labeling and for inserting personal comments directed to friends and family members;
- Ability to predict the timing and the temporal alignment of the inserted captions.
Lessons learned

Traditional Media

Authoring Effort

Delivery Methods

Interaction Opportunities

User-centric Media
Lessons learned

Traditional Media

Authoring Effort
Delivery Methods
Interaction Opportunities

User-centric Media

New Media Landscape
Approach

Current stage

- Start
  - Popular services
  - State-of-the-art

- Prototypes implementation
- Actors & Needs

- New authoring models
- Theoretical models

- Services
- Business models

- Underlying technology

- Thesis
Open Questions

• Has the user-centric media research materialized in theoretical models and in the underlying technology?
• How to model these authoring approaches in a fundamental way?
Approach

Start
- Popular services
- State-of-the-art

Prototypes implementation
- Actors & Needs

New authoring models

Services

Underlying technology

Thesis

Current stage
Next Steps

• Collaboration with HCI groups: user evaluation and identification of other authoring models;

• Identification of actual services and specification of the underlying technology for next generation user-centric authoring systems;

• This will be done in the context of the European Project Ta2 (http://www.ta2-project.eu/).
Publications

• EuroITV 2008: Authoring from the Couch: Research Directions and Possibilities;
• Book chapter in 2009: Television Content Enrichment and Sharing: The Ambulant Annotator;
• ACM MM: submitted (Captioner);
• DocEng: to be submitted (Pan/Zoom tool).
Contact

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