
Contents

Contents	vii
Acknowledgements	xi
1 Introduction.....	1
1.1 Research Questions	5
1.1.1 Social Aspects	6
1.1.2 Capture and Processing	7
1.1.3 Access and Navigation.....	8
1.1.4 Creation and Production.....	9
1.1.5 Content Enrichment	9
1.2 Our Aim.....	10
1.3 Thesis Outline and Summary of the Contributions	10
1.4 Related Work.....	14
1.4.1 Conventional Authoring Systems	14
1.4.2 Interactive Storytelling.....	16
1.4.3 Community Video Mashups and Content Repurposing	17
2 Personalized Memories of Social Events: Studying Asynchronous Togetherness.....	19
2.1 Methodology	22
2.1.1 Content Recording and Preparation	24
2.1.2 MyVideos Implementation	27
2.1.3 Participants.....	28
2.2 Generic Architecture for Socially-Aware Authoring Systems	31
2.2.1 Social Science Principles	31
2.2.2 Family Interviews and Focus Groups	33
2.2.3 Requirements Gathering	34
2.2.4 Guidelines	37
2.3 Evaluation.....	42
2.4 Discussion	46

3	Designing Socially-Aware Video Exploration from Community Assets...	49
3.1	Community-based Browsing	52
3.1.1	Phase 1 Evaluation	55
3.1.2	Lessons Learned.....	58
3.2	Socially-Aware Media Browsing	59
3.3	Evaluation.....	64
3.3.1	Results and Findings	64
3.4	Discussion	68
4	Automatic and Manual Processes for Creating Personalized Stories from Community Assets: Where is the Balance?	71
4.1	Community-based Authoring	73
4.1.1	Phase 1 Evaluation	76
4.1.2	Requirements Gathering	78
4.2	Hybrid Multimedia Authoring.....	80
4.2.1	Profiling Users	82
4.2.2	Automatic Generation of Stories.....	84
4.2.3	End-User Personalization of Stories	85
4.3	Evaluation.....	88
4.3.1	Results and Findings	88
4.4	Discussion	91
5	Supporting Personalized End-User Comments within Third-Party Online Videos.....	93
5.1	Media Consumption and Commenting Practices	96
5.1.1	Survey Research.....	97
5.1.2	Requirements Gathering	100
5.2	Media Commenting meets Multimedia Document Engineering.....	101
5.2.1	Document Model.....	101
5.2.2	Timed Text Content	102
5.2.3	Temporal Hyperlinks	105
5.2.4	Contextual Information	105
5.2.5	Selective Viewing	106
5.3	A Timed Text Video Commenting System	106
5.3.1	Infrastructure	108
5.3.2	User Interface	109
5.4	Evaluation.....	112

5.4.1	Commenting on Videos	113
5.4.2	Close Captioning Videos	113
5.5	Discussion	116
6	Conclusions.....	119
6.1	Revisiting the Research Questions	120
6.2	Reflection and Further Directions	123
6.2.1	Media Encoding and Storage	125
6.2.2	Media Classification and Annotation.....	126
6.2.3	Customized Media Selection	126
6.2.4	Content-Based Navigation	127
6.2.5	Ownership and Digital Rights.....	127
6.2.6	Security and Privacy Concerns	128
6.3	Closing Thoughts	128
	Bibliography	131
	Summary	143
	Nederlandse Samenvatting	145
	Curriculum Vitae.....	147