

Quality of Experienced-aware Adaptive Multi-sensorial (Mulsemmedia) Delivery

Appendix

Dr. Zhenhui Yuan

Dr. George Ghinea

Dr. Gabriel-Miro Muntean

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Appendix I - Instruction and Personal Information

Acknowledgement

Appreciate your support for the mulsemmedia delivery test organized by Dr. Zhenhui Yuan, Dr. Gabriel-Miro Muntean, and Dr. George Ghinea from Dublin City University (Ireland) and Brunel University (UK).

Test Motivations

The objective of the perceptual test is to investigate the impact of multi-sensorial effects (haptic, air motion, and olfaction) on user perception when the user is watching video clips.

Test Guidelines

1. Duration: 20minutes.
2. Filling the **Personal Information Form**.
3. Watching video clips. You will experience the multi-sensoria effects in certain video clips
4. Filling the **Questionnaire** when there is a window pops up reminding it.

Contact

For any questions about the test or if you are interested at the algorithm, please feel free to contact the author (Dr. Zhenhui Yuan, Email: zhyuan@ieee.org).

Personal Information Form

Please check “√” for your choice

User No: _____

Gender:	(A) Male			(B) Female			
Age:	(A) <20	(B) 21-25	(C) 26-30		(D) >30		
Working area:	(A) Computer Science/Engineering	(B) Humanity	(C) Education	(D) Finance	(E) others		
Do you use glasses?	(A) Yes			(B) No			
Do you have visual disabilities, such as colour blindness and colour weakness?	(A) Yes			(B) No			
How often do you watch movies?	(A) Every day	(B) Twice/week	(C) Once/week	(D) Once/month	(E) Never		
How familiar are you with video perception assessment?	(A) Expert			(B) Familiar		(C) Not familiar	
Which network do you use most to watch video?	(A) Wi-Fi			(B) 3G/4G		(C) Ethernet with cable	
Which is your favourite movie type?	(A) Action	(B) Science Fiction	© Comedy	(D) Cartoon	(E) Crime	(F) Art	(G) Other
Have you ever experienced watching movies together with sensorial devices which provide effects such as olfaction, haptic and air motion?	(A) Yes			(B) No			

Appendix II – Multimedia Clips Presentation Sequence

Jurassic Park Matrix

Clip Segment	1 (Hi Mo)				2 (Hi Mo)				3 (Hi Mo)				4 (Hi Mo)				5 (Hi Mo)				6 (Hi Mo)				7 (Hi Mo)				8 (Hi Mo)			
Quality Combination	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
User 1	X										X								X													
User 2		X									X					X								X								
User 3			X												X								X									
User 4				X					X							X								X								
User 5					X									X						X								X				
User 6						X									X						X						X					
User 7							X								X					X							X					
User 8								X					X							X								X				
User 9	X										X								X							X						
User 10		X										X				X							X									
User 11			X												X								X									
User 12				X					X							X								X								
User 13					X									X						X								X				
User 14						X									X						X					X						
User 15							X							X						X							X					
User 16								X					X							X								X				

Clip Segment	9 (Lo Mo)				10 (Lo Mo)				11 (Lo Mo)				12 (Lo Mo)				13 (Lo Mo)				14 (Lo Mo)				15 (Lo Mo)				16 (Lo Mo)			
Quality Combination	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
User 1	X									X									X					X								
User 2		X									X								X													
User 3			X									X				X						X										
User 4				X					X							X							X									
User 5					X							X							X									X				
User 6						X						X								X					X							
User 7							X						X						X							X						
User 8								X				X							X								X					
User 9	X									X								X						X								
User 10		X									X										X											
User 11			X									X				X						X										
User 12				X					X							X							X									
User 13					X							X							X									X				
User 14						X							X							X					X							
User 15							X						X						X							X						
User 16								X					X						X									X				

Quality Combination 1: Mulsemmedia, High Quality

Quality Combination 2: Mulsemmedia, Low Quality

Quality Combination 3: No Mulsemmedia, High Quality

Quality Combination 4: No Mulsemmedia, Low Quality

Clip Segment	9 (Lo Mo)				10 (Lo Mo)				11 (Lo Mo)				12 (Lo Mo)				13 (Lo Mo)				14 (Lo Mo)				15 (Lo Mo)				16 (Lo Mo)			
Quality Combination	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
User 1	X									X									X					X								
User 2		X									X								X													
User 3			X									X				X						X										
User 4				X					X							X							X									
User 5					X							X							X									X				
User 6						X						X								X					X							
User 7							X						X					X								X						
User 8								X				X						X									X					
User 9	X									X								X						X								
User 10		X									X										X											
User 11			X									X				X						X										
User 12				X					X							X							X									
User 13					X							X							X									X				
User 14						X						X								X					X							
User 15							X						X					X								X						
User 16								X					X					X										X				

Quality Combination 1: Mulsemmedia, High Quality

Quality Combination 2: Mulsemmedia, Low Quality

Quality Combination 3: No Mulsemmedia, High Quality

Quality Combination 4: No Mulsemmedia, Low Quality

Appendix III – Questionnaire

Questionnaire (User _____)

Please check the box as applicable.

1. The multi-sensorial effects enhance the video content

Strongly disagree	Slightly disagree	Slightly agree	Agree	Strongly agree	Not noticed

2. The multi-sensorial effects are annoying.

Strongly disagree	Slightly disagree	Slightly agree	Agree	Strongly agree	Not noticed

3. The multi-sensorial effects improve the sense of reality when watching the video

Strongly disagree	Slightly disagree	Slightly agree	Agree	Strongly agree	Not noticed

4. The multi-sensorial effects are distracting

Strongly disagree	Slightly disagree	Slightly agree	Agree	Strongly agree	Not noticed

5. I enjoyed the experience

Strongly disagree	Slightly disagree	Slightly agree	Agree	Strongly agree	Not noticed

6. Which sensorial effect do you prefer (or you like the best)?

Haptic	Air	Olfaction
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7. The quality of the video clip is

Bad	Poor	Fair	Good	Excellent

