Exploring the Impact of AI Voices in Erotic Film Audio Description: A Gender-Based Study

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<u>AIMS</u>

- Analyzing whether the gender of the narrator in audio description
 (AD) influences user experience and accessibility.
- Investigating the impact of artificial intelligence (AI)-generated voices on AD reception (male vs. female narrators).
- Assessing the audience's reactions to the narrator's gender in AD.
- Comparing the perceived quality of AI-generated narration to human narration.

PARTICIPANTS

- 34, visually impaired, without hearing impairment
- 22 women + 12 men
- ONCE, 21-71 years old
- Mostly heterosexual (88%)
- Congenital (77%) / acquired blindness

INSTRUMENTS

- Self-report questionnaires
 - The Tactile Version of the Self-Assessment Manikin (Iturregui, G., Méndez, J., 2019)
 - The Sexual Inhibition / Excitation Scale (Carpenter et al., 2010)
 - Ratings of Sexual Arousal (Mosher, 2011)
 - Question about adequacy of Al voices
- Physiological data
 - Shimmer3 GSR+

MATERIALS

- (5-minute baseline video)
- 6-minute AD scripts, 600 words each
- Heterosexual encounter man + woman, comparable sexual practices
- Validated for sexual activation in heterosexual men and women (Gómez-Lugo et al., 2016)
- 2 versions per video
 - AI-generated female narration
 - AI-generated male narration

PROCEDURE

- Between-subject
- Baseline video + randomized presentation of the stimuli
- Questionnaires after each video
- Final question regarding AI voices

RESEARCH QUESTIONS

- Does the gender of the AI-generated narrator in audio descriptions interact with the participants' own sex to significantly influence the objective arousal of visually impaired users when consuming explicit content? NO.
- Does the gender of the AI-generated narrator in audio descriptions interact with the participants' own sex to significantly influence the objective self-regulation effort of visually impaired users when consuming explicit content? **YES.**

RESEARCH QUESTIONS

- Does the gender of the AI-generated narrator in audio descriptions interact with the participants' own sex to significantly influence the subjective feelings of transportation of visually impaired users when consuming explicit content? NO.
- Does the gender of the AI-generated narrator in audio descriptions interact with participants' own sex to significantly influence the subjective erotic sensations of visually impaired users when consuming explicit content? YES*.

RESEARCH QUESTION (disregarding gender)

• Will participants perceive a significant difference between the Algenerated voices and a human voices? **NO.**

Results of the survey

1: (Not adequate): 11.76% (4)

2: 17.65% (6)

3 (Indifferent): 11.76% (4)

4: 11.76% (4)

5 (Very adequate): 47.06% (16)

KEY FINDINGS

- No significant impact of AI narrator gender on objective arousal
- Significant impact on self-regulation effort > men exhibited increased self-regulation effort (lower parasympathetic activity) when listening to male-narrated AD.
- No significant impact of AI narrator gender on subjective feelings of transportation.
- Significant impact on subjective erotic sensations > men reported stronger erotic sensations when listening to male-narrated AD*.

FUTURE RESEARCH

- Comparison between Al and human voices
- Impact of voice characteristics
- Cultural factors
- Broader applications

Thank you for your time!

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