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FOUR DIMENSIONS OF AUTHENTICITY IN AI LANGUAGE

ASSESSMENT

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Abstract

This article presents a detailed framework of four essential dimensions of authenticity in AI-enhanced language assessment: contextual, interactional, consequential, and representational. For each dimension, we analyze current AI capabilities, identify limitations, and suggest pathways for development. This framework provides TESOL practitioners with concrete criteria for evaluating AI assessment tools and offers developers clear guidelines for creating more authentic assessment systems.

Keywords: language assessment, artificial intelligence, authenticity dimensions, TESOL, assessment design

1. Introduction

As artificial intelligence technologies increasingly permeate language education, there is a pressing need for frameworks that can guide their implementation in ways that support rather than undermine communicative language teaching principles. This paper presents a four-dimensional framework of authenticity specifically designed for AI-enhanced language assessment.

2. Contextual Authenticity

Contextual authenticity concerns the extent to which assessment tasks reflect real-world language use contexts. This dimension addresses:

2.1 Situational Relevance

Assessment tasks should represent situations that learners are likely to encounter in target language environments. Current AI systems often rely on generic, decontextualized prompts that fail to mirror the specific contexts in which learners will use language. Next-generation systems should incorporate situationally embedded tasks that reflect authentic communicative contexts.

2.2 Purpose-Driven Communication

Authentic language use is motivated by genuine communicative purposes. AI assessment should evaluate language within purposeful tasks rather than as isolated performance. While current systems typically assess language as product rather than process, emerging technologies could better simulate authentic communicative purposes.

2.3 Cultural Appropriateness



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Assessment should account for cultural norms and expectations relevant to the target language community. AI systems trained on limited cultural data may fail to recognize culturally appropriate language use or may impose culture-specific expectations inappropriately. Culturally responsive AI requires diverse training data and cultural awareness in assessment design.

2.4 Multimodal Integration

Real-world communication integrates multiple modes including verbal, visual, and contextual cues. AI assessment that focuses solely on linguistic features without considering multimodal aspects of communication compromises contextual authenticity. Multimodal AI systems represent a promising direction for enhancement.

3. Interactional Authenticity

Interactional authenticity addresses the dynamic, reciprocal nature of authentic communication:

3.1 Contingent Responses

Authentic communication involves unpredictable exchanges where responses are contingent on preceding turns. Current AI dialogue systems typically follow predetermined paths with limited ability to handle unexpected responses. LLMs show potential for more contingent interaction but still lack true understanding of conversational dynamics.

3.2 Turn-Taking Management

Assessment should consider how learners navigate conversational structures including initiation, response, and follow-up moves. AI assessment rarely evaluates turn-taking skills, focusing instead on isolated responses to prompts. Dialogue-based systems with enhanced interactional capabilities could address this limitation.

3.3 Repair Strategies

Authentic communication involves identifying and resolving communication breakdowns. AI assessment typically provides one-way feedback rather than engaging in collaborative repair. Systems that can simulate authentic repair sequences would enhance interactional authenticity.

3.4 Co-construction of Meaning

Meaning emerges through collaborative interaction rather than individual production alone. Current AI systems typically evaluate individual production against predetermined criteria rather than considering how meaning is negotiated between participants. Truly interactive AI would need to participate in and evaluate coconstruction processes.

4. Consequential Authenticity

Consequential authenticity concerns the impact of assessment on teaching, learning, and stakeholder perceptions:

4.1 Washback Effects



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Assessment should promote positive teaching and learning practices aligned with communicative language teaching principles. If AI assessment focuses primarily on machine-readable features of language, it may encourage teaching practices that prioritize those features over communicative competence.

4.2 Stakeholder Acceptance

Assessment methods should be perceived as valid and meaningful by teachers, learners, institutions, and other stakeholders. If stakeholders perceive AI assessment as reductive or invalid, they may resist its implementation or discount its feedback, undermining its educational value.

4.3 Learning Transfer

Assessment should facilitate transfer of learning to real-world contexts. The relationship between performance on AI assessment tasks and real-world language ability requires ongoing validation to ensure meaningful transfer.

4.4 Learner Agency

Assessment should promote learner autonomy and self-regulation rather than dependency. AI systems that provide passive feedback without engaging learners in reflective processes may undermine agency, while systems that scaffold selfassessment could enhance it.

5. Representational Authenticity

Representational authenticity addresses how language diversity is represented in assessment:

5.1 Linguistic Variation

Assessment should recognize and accommodate legitimate variation in language use, including world Englishes and regional dialects. AI systems trained predominantly on standard language varieties may penalize legitimate variation or fail to recognize alternative expressions of communicative competence.

5.2 Register and Genre Diversity

Assessment should include a range of registers and genres relevant to learners' target language use domains. Current AI systems may have limited exposure to specialized registers or genres, compromising their ability to evaluate language appropriateness across contexts.

5.3 Multicompetence

Assessment should recognize the value of multilingual resources rather than penalizing language transfer or code-switching when appropriate. AI systems typically evaluate language against monolingual norms, potentially failing to recognize the strategic use of multilingual resources.

5.4 Diverse Communication Styles



Assessment should accommodate cultural differences in communication styles,

including directness/indirectness, verbosity/concision, etc. AI trained on limited cultural data may impose culture-specific communication norms inappropriately.

6. Practical Applications

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TESOL practitioners can apply this framework to:

• Create evaluation rubrics for AI assessment tools based on the four dimensions

• Identify specific authenticity gaps in current tools

• Design complementary assessment activities that address dimensions current AI cannot evaluate

• Communicate authenticity considerations to learners when implementing AI assessment

AI developers should:

• Design assessment systems that explicitly address all four dimensions

• Incorporate diverse training data that represents linguistic and cultural variation

- Create tools that can adapt to different communicative contexts and purposes
- Develop assessment interfaces that support genuine interaction

7. Conclusion

The four dimensions of authenticity—contextual, interactional, consequential, and representational—provide a comprehensive framework for evaluating and developing AI language assessment tools. While current AI capabilities show varying degrees of alignment with these dimensions, understanding these gaps can guide both implementation decisions and future development efforts. By attending to all four dimensions, TESOL practitioners and AI developers can work toward assessment systems that meaningfully evaluate communicative competence while providing efficient and informative results.

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