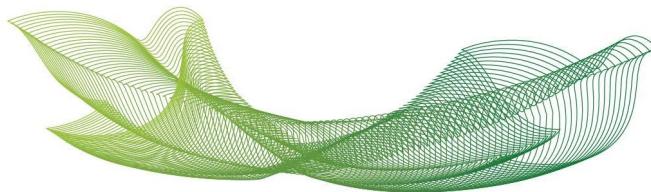




Tipo	Periódico
Título	Content validity evidence for a personality inventory
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Programa Curso(s)	Programa de Pós Graduação Stricto Sensu em Psicologia
DOI	https://doi.org/10.15448/1980-8623.2025.1.47225
Assunto (palavras chaves)	
Idioma	Inglês
Fonte	Título do periódico: Psico ISSN: : 1980-8623 Volume/Número/Paginação/Ano: 56 e47225 2026
Data da publicação	12-1-2026
Formato da Produção	Digital
Resumo	Large Language Models (LLMs) represent a significant advancement in Natural Language Processing (NLP). This study investigates the use of these models in gathering content-based validity evidence for a new instrument assessing the Big Five personality factors. Items for the new instrument were created by ChatGPT and semantically analyzed by Gemini, alongside items from the BFI-2 (human-created). The analysis employed



item classification via prompt (simulating an expert judge) and Exploratory Factor Analysis of item embeddings (obtained via API), proposing a novel approach to psychometrics. Results showed semantic convergence for neuroticism, agreeableness, openness, and conscientiousness, but greater dispersion for extraversion items. Semantic convergence was also observed between LLM-generated and human-created items (content-convergent validity). It is concluded that LLMs show significant potential to contribute to the process of gathering content-based validity evidence.

Fomento
