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Patent Search

Invention Title	METHODS FOR ADAPTIVE ENGLISH COMMUNICATION SELF- ASSESSMENT
Publication Number	02/2024
Publication Date	12/01/2024
Publication Type	INA
Application Number	202341086558
Application Filing Date	18/12/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G09B0019060000, G16H0010200000, G09B0019000000, G09B0007000000, G09B0007020000

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Abstract:

ABSTRACT Methods for adaptive English Communication self- assessment This article presents a comprehensive review of the existing methods for adaptive English Communication self-assessments. A basic assessment framework is proposed based on learning objectives, user goals, and different activities to assess the effective language-learning process. Firstly, the paper evaluates the existing assessment methods in terms of either formative or summative orientation, and discusses their implications. Secondly, it proposes an Adaptive English Communication Self-Assessment (AECSA) framework, which includes four main components: (1) a bi-directional learning model; (2) a learning analytics module to track learning progress; (3) a feedback module to provide support for self-evaluation; and (4) a personalized learning to enable personalized learning. Finally, the paper outlines a roadmap for further research in this field. In particular, it suggests addressing the challenge of designing activities that integrate a user's cognitive and affective states, as well as considering alternative AI-based approaches for adapting dynamic forms of assessments. The study examines the efficacy of methods for adaptive English communication self-assessment (AECSA). By leveraging AI-enabled technologies, particularly the Natural Language Processing (NLP) technique, AECSA aims to provide users an interactive and adaptive system for self-assessment in English communication contexts. Specifically, NLP are used to analyze user input and present immediate feedback based on a pre-defined set of criteria that evaluates communication performance according to fluency, complexity, and appropriateness. To evaluate the efficacy of this approach, a quasi-experimental design will be employed, where users will be randomly assigned to either control or experimental group, with each group receiving either the traditional or AECSA approach, respectively. Subsequent assessments will be employed to measure communication performance according to the chosen criteria, both in terms of proficiency and self-efficacy in communication. The results of this study will provide insight into the impact that leveraging AI- and NLP-enabled technologies for self-assessment has on users' English communication skills.

Complete Specification

Description:FORM 2
THE PATENTS ACT,1970
(39 of 1970)

&
THE PATENT RULES, 2003
Complete Specification
(See section10 and rule13)

1. Title of the Invention: Methods for adaptive English Communication self- assessment

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