

Table S1. Titles and sources of the included studies.

Article title	Scale title	Year	Category	Access (DOI/Website)
A Novel Scale to Measure Nursing Students' Fear of Artificial Intelligence: Development and Validation	Fear of Artificial Intelligence Scale	2025	AI anxiety and fear	10.2174/0118744346376183250212033153
Developing and Validating a Scale of Artificial Intelligence Anxiety Among Chinese EFL Teachers	Artificial Intelligence Anxiety Scale for Chinese EFL Teachers	2025	AI anxiety and fear	10.1111/ejed.12902
Development and validation of an artificial intelligence anxiety scale: an initial application in predicting motivated learning behavior	Artificial Intelligence Anxiety Scale	2022	AI anxiety and fear	10.1080/10494820.2019.1674887
The Threats of Artificial Intelligence Scale (TAI) Development, Measurement and Test Over Three Application Domains	Threats of Artificial Intelligence Scale (TAI)	2021	AI anxiety and fear	10.1007/s12369-020-00734-w
Validity and reliability of the Chinese version of Threats of Artificial Intelligence Scale (TAI) in Chinese adults	Threats of Artificial Intelligence Scale (TAI) – Chinese Version	2023	AI anxiety and fear	10.1186/s41155-023-00247-1
When everyone is talking about AI: The development of fear of missing out on AI scale	Fear of Missing Out on AI Scale	2025	AI anxiety and fear	10.1016/j.tele.2025.102283
AI-Enhanced Gamification in Education: Developing and Validating a Scale for Measuring Engagement and Motivation Among Secondary School Students: Insights From the Network Analysis Perspective	AI-Enhanced Gamification in Education Scale	2025	AI education and teaching	10.1111/ejed.70153
Artificial Intelligence Convergence Teaching Expertise Scale for Pre-service Teachers in Korea: A Validity and Reliability Study	Artificial Intelligence Convergence Teaching Expertise Scale for Pre-Service Teachers in Korea	2025	AI education and teaching	10.18517/ijaseit.15.1.12409
Artificial Intelligence-Critical Pedagogy: Design and Psychologic Validation of a Teacher-Specific Scale for Enhancing Critical Thinking	AI-Critical Pedagogy Scale (AICPS)	2025	AI education and teaching	10.1111/jcal.70039
Developing and validating the scale of language teachers' design thinking competency in artificial intelligence language teaching	Language Teachers' Design Thinking Competency in AI-Based Language Teaching Scale (LTDTAILT)	2025	AI education and teaching	10.1016/j.cacai.2025.100420
Development and validation of moral ascendancy and dependency in AI integration (MAD-AI) scale for teachers	Moral Ascendancy and Dependency in AI Integration (MAD-AI) Scale for Teachers	2025	AI education and teaching	10.1016/j.compedu.2025.105346
Development and Validation of the Artificial Intelligence Learning Intention Scale (AILIS) for University Students	Artificial Intelligence Learning Intention Scale	2024	AI education and teaching	10.1177/21582440241242188
Development and validation of the perceived interactivity of learner-AI interaction scale	Perceived Interactivity of Learner–AI Interaction Scale	2025	AI education and teaching	10.1007/s10639-024-12963-x
Examining teachers' competencies in generative AI-enabled higher education: scale development and validation for empirical research	Teachers' Competency Scale for Generative AI-Enabled Higher Education	2025	AI education and teaching	10.1007/s43545-025-01068-y
Learning to Teach AI: Design and Validation of a Questionnaire on Artificial Intelligence Training for Teachers	Questionnaire on Artificial Intelligence Training for Teachers	2025	AI education and teaching	10.12973/eu-jer.14.1.249
The AI Assessment Scale (AIAS) in Action: A pilot implementation of GenAI-supported assessment	AI Assessment Scale (AIAS)	2024	AI education and teaching	10.14742/ajet.9434
The Artificial Intelligence Assessment Scale (AIAS): A Framework for Ethical Integration of Generative AI in Educational Assessment	Artificial Intelligence Assessment Scale (AIAS)	2024	AI education and teaching	10.53761/q3azde36
AI readiness scale for teachers: Development and validation	AI Readiness Scale for Teachers	2024	AI readiness	10.1007/s10639-024-13087-y
Medical artificial intelligence readiness scale for medical students (MAIRS-MS) - development, validity and reliability study	Medical Artificial Intelligence Readiness Scale for Medical Students (MAIRS-MS)	2021	AI readiness	10.1186/s12909-021-02546-6
Teachers' AI readiness in Chinese as a Foreign Language education: Scale development and validation	Teachers' AI Readiness Scale for Chinese as a Foreign Language Education	2025	AI readiness	10.1016/j.system.2025.103597
University Learners' Readiness for ChatGPT-Assisted English Learning: Scale Development and Validation	University Learners' Readiness Scale for ChatGPT-Assisted English Learning	2025	AI readiness	10.1111/ejed.12886
Artificial intelligence self-efficacy: Scale development and validation	Artificial Intelligence Self-Efficacy Scale	2024	AI users self-efficacy	10.1007/s10639-023-12015-w
Developing and validating an AI-supported teaching applications' self-efficacy scale	AI-Supported Teaching Applications Self-Efficacy Scale	2024	AI users self-efficacy	10.58459/rptel.2024.19035
Developing the questionnaire of self-efficacy and needs in using large-language model-based AI services	Self-Efficacy and Needs Questionnaire for Large Language Model-Based AI Services	2025	AI users self-efficacy	10.1007/s12144-024-07206-8
Development and validation of teacher artificial intelligence (AI) competence self-efficacy (TAICS) scale	Teacher AI Competence Self-Efficacy Scale (TAICS)	2025	AI users self-efficacy	10.1007/s10639-024-13094-z
Validating student AI competency self-efficacy (SAICS) scale and its framework	Student AI Competency Self-Efficacy Scale (SAICS)	2025	AI users self-efficacy	10.1007/s11423-025-10512-y

A Psychometric Validation of the PAILQ-6: Perceived Artificial Intelligence Literacy Questionnaire	Perceived Artificial Intelligence Literacy Questionnaire (PAILQ)	2024	AI literacy	10.1145/3679318.3685359
Artificial Intelligence (AI) Literacy Questionnaire with Confirmatory Factor Analysis	Artificial Intelligence Literacy Questionnaire	2023	AI literacy	10.1109/ICALT58122.2023.00074
Design and validation of the AI literacy questionnaire: The affective, behavioural, cognitive and ethical approach	Affective–Behavioral–Cognitive–Ethical AI Literacy Questionnaire	2024	AI literacy	10.1111/bjet.13411
Developing and Validating a Multidimensional AI Literacy Questionnaire: Operationalizing AI Literacy for Higher Education	Multidimensional AI Literacy Questionnaire	2024	AI literacy	https://flore.unifi.it/handle/2158/1349235
Development and Validation of a Digital Literacy Scale in the Artificial Intelligence Era for College Students	Digital Literacy in the Artificial Intelligence Era Scale for College Students	2023	AI literacy	10.3837/tiis.2023.08.016
Development and validation of ChatGPT literacy scale	ChatGPT Literacy Scale	2024	AI literacy	10.1007/s12144-024-05723-0
Development and validation of the Artificial Intelligence Literacy Scale for Teachers (AILST)	Artificial Intelligence Literacy Scale for Teachers (AILST)	2025	AI literacy	10.1007/s10639-025-13347-5
Development of the “Scale for the assessment of non-experts’ AI literacy” – An exploratory factor analysis	Scale for the assessment of non-experts	2023	AI literacy	10.1016/j.chbr.2023.100338
Evaluating AI literacy of secondary students: Framework and scale development	AI Literacy Scale for Secondary School Students	2025	AI literacy	10.1016/j.compedu.2024.105230
Measuring user competence in using artificial intelligence: validity and reliability of artificial intelligence literacy scale	Artificial Intelligence Literacy Scale	2023	AI literacy	10.1080/0144929X.2022.2072768
Meta AI literacy scale: Further validation and development of a short	Meta AI Literacy Scale	2024	AI literacy	10.1016/j.heliyon.2024.e39686
Multinational validation of the Arabic version of the Artificial Intelligence Literacy Scale (AILS) in university students	Arabic Version of the Artificial Intelligence Literacy Scale (AILS)	2024	AI literacy	10.1080/23311908.2024.2395637
Overview and confirmatory and exploratory factor analysis of AI literacy scale	AI Literacy Scale	2024	AI literacy	10.1016/j.cacai.2024.100310
The development and validation of a scale on student AI literacy in L2 writing: A domain-specific perspective	Student AI Literacy in L2 Writing Scale	2025	AI literacy	10.1016/j.jslw.2025.101227
The Development and Validation of the Artificial Intelligence Literacy Scale for Chinese College Students (AILS-CCS)	Artificial Intelligence Literacy Scale for Chinese College Students (AILS-CCS)	2024	AI literacy	10.1109/ACCESS.2024.3468378
A validity and reliability study of the artificial intelligence attitude scale (AIAS-4) and its relationship with social media addiction and eating behaviors in Turkish adults	Turkish Adaptation of the AI Attitude Scale (AIAS-4)	2025	AI attitude and acceptance	10.1186/s12889-025-22507-8
Adaptation of Artificial Intelligence Attitude Scale (AIAS-4) into Turkish: a validity and reliability study	Turkish Version of the Artificial Intelligence Attitude Scale (AIAS-4)	2025	AI attitude and acceptance	10.1007/s12144-025-07418-6
Adaptation of the Student Attitudes Toward Artificial Intelligence Scale to the Turkish Context: Validity and Reliability Study	Turkish Version of the Artificial Intelligence Scale	2025	AI attitude and acceptance	10.1080/10447318.2024.2352921
An augmented-depleted framework of AI awareness: Concept expansion and scale development	AI Awareness Scale	2025	AI attitude and acceptance	10.1016/j.ijhm.2025.104164
Artificial intelligence in education and EFL teachers' attitudes: scale development and validation	AI in Education and EFL Teachers' Attitudes Scale	2025	AI attitude and acceptance	10.1080/17501229.2025.2494823
Assessing EFL learners' attitudes on Generative Artificial Intelligence: Development and validation of Generative Artificial Intelligence attitude scale for EFL learners (GenAIAS)	Generative AI Attitude Scale for EFL Learners (GenAIAS)	2024	AI attitude and acceptance	10.1080/15391523.2024.2437744
Attitudes towards artificial intelligence at work: Scale development and validation	Attitudes Toward AI at Work Scale	2024	AI attitude and acceptance	10.1111/joop.12502
Consumers' Perception of Risk Towards Artificial Intelligence Technologies Used in Trade: A Scale Development Study	Artificial Intelligence Technology Risk Perception Scale (AITUTRPS)	2021	AI attitude and acceptance	10.24818/EA/2021/56/65
Design of the Attitudinal Assessment Scale Towards Artificial Intelligence (EVAIA-1)	EVAIA-1: Attitudinal Assessment Scale Toward Artificial Intelligence	2023	AI attitude and acceptance	10.1109/ETCM58927.2023.10309057
Development and psychometric evaluation of the artificial intelligence attitude scale for nurses	AI Attitude Scale for Nurses	2025	AI attitude and acceptance	10.1186/s12912-025-03098-6
Development and Validation of a Scale Measuring Student Attitudes Toward Artificial Intelligence	Student Attitudes Toward Artificial Intelligence Scale	2022	AI attitude and acceptance	10.1177/21582440221100463
Development and validation of generative artificial intelligence attitude scale for students	Generative AI Attitude Scale for Students	2025	AI attitude and acceptance	10.3389/fcomp.2025.1528455

Development and validation of the AI attitude scale (AIAS-4): a brief measure of general attitude toward artificial intelligence	Artificial Intelligence Attitude Scale (AIAS-4)	2023	AI attitude and acceptance	10.3389/fpsyg.2023.1191628
Development of Semantic Differential Scales for Artificial Intelligence Agents	Semantic Differential Scales for AI Agents	2023	AI attitude and acceptance	10.1007/s12369-023-01010-3
Development of Teachers' Perception Scale Regarding Artificial Intelligence Use in Education: Validity and Reliability Study	Teachers' Perception of AI Use in Education Scale	2025	AI attitude and acceptance	10.1080/10447318.2024.2385518
Development of the AI Acceptance Scale for Interprofessional Education (AAIPE) and Collaborative Practice Settings	AI Acceptance Scale for Interprofessional Education (AAIPE)	2025	AI attitude and acceptance	10.1016/j.xjep.2025.100752
Endoscopists' Acceptance on the Implementation of Artificial Intelligence in Gastrointestinal Endoscopy: Development and Case	Endoscopists' AI Acceptance in Gastrointestinal Endoscopy Scale	2022	AI attitude and acceptance	10.3389/fmed.2022.760634
Exploring healthcare professionals' perceptions of artificial intelligence: Validating a questionnaire using the e-Delphi method	Healthcare Professionals' Perceptions of AI Questionnaire	2021	AI attitude and acceptance	10.1177/20552076211003433
Generative Artificial Intelligence Acceptance Scale: A Validity and Reliability Study	Generative Artificial Intelligence Acceptance Scale	2024	AI attitude and acceptance	10.1080/10447318.2023.2288730
Initial validation of the general attitudes towards Artificial Intelligence	General Attitudes Toward Artificial Intelligence Scale	2020	AI attitude and acceptance	10.1016/j.chbr.2020.100014
Perception of AI Creativity: Dimensional Exploration and Scale	Perception of AI Creativity Scale	2025	AI attitude and acceptance	10.1002/jobc.70028
Psychometric properties and Turkish adaptation of the artificial intelligence attitude scale (AIAS-4): evidence for construct validity	Turkish Version of the AI Attitude Scale (AIAS-4)	2025	AI attitude and acceptance	10.1186/s40359-025-02505-6
Students' attitudes towards an AI-based interview for university admissions: Scale development and intervention effects	AI-Based Interview Attitudes Scale (for University Admissions)	2024	AI attitude and acceptance	10.1007/s10639-024-12649-4
The General Attitudes towards Artificial Intelligence Scale (GAAIS): Confirmatory Validation and Associations with Personality, Corporate Distrust, and General Trust	General Attitudes Toward Artificial Intelligence Scale (GAAIS)	2023	AI attitude and acceptance	10.1080/10447318.2022.2085400
The Turkish Version of the Technology Acceptance Model-Based Scale TAME-ChatGPT: A Validity and Reliability Study	Technology Acceptance Model-Based ChatGPT Scale (TAME-ChatGPT)	2025	AI attitude and acceptance	10.1080/10447318.2025.2487876
The use of artificial intelligence in a military context: development of the attitudes toward AI in defense (AAID) scale	Attitudes Toward AI in Defense (AAID) Scale	2023	AI attitude and acceptance	10.3389/fpsyg.2023.1164810
Validating the AI-assisted second language (L2) learning attitude scale for Chinese college students and its correlation with L2 proficiency	AI-Assisted L2 Learning Attitudes Scale for Chinese College Students	2024	AI attitude and acceptance	10.1016/j.actpsy.2024.104376
Validity and Reliability of the Chinese Version of General Attitudes towards Artificial Intelligence Scale	Chinese Version of the General Attitudes Toward Artificial Intelligence Scale	2025	AI attitude and acceptance	10.1080/10447318.2025.2465868
Development and validation of a scale for dependence on artificial intelligence in university students	Dependence on Artificial Intelligence in University Students Scale	2024	AI dependency and problematic use	10.3389/feduc.2024.1323898
Development and validation the Problematic ChatGPT Use Scale: a preliminary report	Problematic ChatGPT Use Scale	2024	AI dependency and problematic use	10.1007/s12144-024-06259-z
From assistance to reliance: Development and validation of the large language model dependence scale	Large Language Model Dependence Scale	2025	AI dependency and problematic use	10.1016/j.ijinfomgt.2025.102888
Measuring undergraduate students' reliance on Generative AI during problem-solving: Scale development and validation	Reliance on Generative AI During Problem-Solving Scale	2025	AI dependency and problematic use	10.1016/j.compedu.2025.105329
The Development and Validation of an Artificial Intelligence Chatbot Dependence Scale	AI Chatbot Dependence Scale	2025	AI dependency and problematic use	10.1089/cyber.2024.0240
AI-powered language learning: Developing the chatGPT usage scale for foreign language learners	ChatGPT Usage Scale for Foreign Language Learners	2025	ChatGPT and dialogue proxy evaluation	10.1007/s10639-025-13342-w
An integrated theory for chatbot use in air travel: Questionnaire development and validation	Chatbot Use in Air Travel Questionnaire	2020	ChatGPT and dialogue proxy evaluation	10.1109/TENCON50793.2020.9293710
Assessment Scale and Behavioral Model Construction for AI Chat Information Retrieval and Processing Service Systems Based on Behavioral Reasoning Theory-Taking ChatGPT-Like Tools as an	AI Chat Information Retrieval and Processing Behavior Scale	2025	ChatGPT and dialogue proxy evaluation	10.1080/10447318.2024.2331855
Developing a comprehensive evaluation questionnaire for university FAQ administration chatbots	University FAQ Chatbot Evaluation Questionnaire	2023	ChatGPT and dialogue proxy evaluation	10.1109/ICTAS56421.2023.10082753
Development and validation of the conversational agents scale (cas)	Conversational Agents Scale (CAS)	2013	ChatGPT and dialogue proxy evaluation	https://www.isca-archive.org/interspeech_2013/wechsung13_intersp
Development of a Comprehensive Evaluation Scale for LLM-Powered Counseling Chatbots (CES-LCC) Using the eDelphi Method	LLM-Powered Counseling Chatbot Evaluation Scale (CES-LCC)	2025	ChatGPT and dialogue proxy evaluation	10.3390/informatics12010033
Measuring the Chatbot-User Interaction: Scale Development and	Chatbot-User Interaction Scale	2024	ChatGPT and dialogue proxy evaluation	10.1109/RAAI64504.2024.10949554

Validating the ChatGPT Usage Scale: psychometric properties and factor structures among postgraduate students	ChatGPT Usage Scale	2024	ChatGPT and dialogue proxy evaluation	10.1186/s40359-024-01983-4
A confirmatory factorial analysis of the Chatbot Usability Scale: a multilanguage validation	Chatbot Usability Scale	2023	Availability and user experience	10.1007/s00779-022-01690-0
Automated social presence in artificial-intelligence services: Conceptualization, scale development, and validation	Automated Social Presence Scale	2024	Availability and user experience	10.1016/j.techfore.2024.123377
ChatGPT-3.5 System Usability Scale early assessment among Healthcare Workers: Horizons of adoption in medical practice	ChatGPT-3.5 System Usability Scale	2024	Availability and user experience	10.1016/j.heliyon.2024.e28962
Ciao AI: the Italian adaptation and validation of the Chatbot Usability	Italian Adaptation of the Chatbot Usability Scale	2023	Availability and user experience	10.1007/s00779-023-01731-2
Development of an Assessment Scale for Measurement of Usability and User Experience Characteristics of Bing Chat Conversational AI	Bing Chat Usability and User Experience Assessment Scale	2023	Availability and user experience	10.3390/fi16010004
Re-examining the chatBot Usability Scale (BUS-11) to assess user experience with customer relationship management chatbots	Chatbot Usability Scale (BUS-11)	2024	Availability and user experience	10.1007/s00779-024-01834-4
Towards Validating a Chatbot Usability Scale	Chatbot Usability Scale (Confirmed Version)	2023	Availability and user experience	10.1007/978-3-031-35708-4_24
Unleashing the potential of Turkish chatbots: a study on the validity and reliability of the bot usability scale	Bot Usability Scale	2025	Availability and user experience	10.1007/s10209-025-01211-9
Usability and User Experience Related Perceptions of University Students Regarding the Use of Bing Chat Search Engine and AI Chatbot: Preliminary Evaluation of Assessment Scales	Perceptions of Bing Chat Search and AI Chatbot Usability Scale	2023	Availability and user experience	10.1109/SISY60376.2023.10417910
AI ethical awareness and academic integrity in higher education: development and validation of a new scale	AI Ethical Awareness and Academic Integrity Scale (Higher Education)	2025	Ethics and social responsibility	10.1080/10508422.2025.2511336
Artificial Intelligence Social Responsibility in the Consumer Market: Dimension Exploration and Scale Development	AI Social Responsibility in the Consumer Market Scale	2025	Ethics and social responsibility	10.1111/ijcs.70054
Assessment of AI ethical reflection: the development and validation of the AI ethical reflection scale (AIERS) for university students	AI Ethical Reflection Scale (AIERS) for University Students	2025	Ethics and social responsibility	10.1186/s41239-025-00519-z
Development and Validation of a Scale for Nurses' Ethical Awareness in The Use of Artificial Intelligence: A Methodological Study	Nurses' Ethical Awareness in AI Use Scale	2025	Ethics and social responsibility	10.1111/nhs.70140
A psychometric analysis of the artificial intelligence skills scale developed through chat gpt	Artificial Intelligence Skills Scale	2025	Others	10.1007/s10639-024-13294-7
AI in health tourism: developing a measurement scale	AI Needs in Health Tourism Scale	2022	Others	10.1080/10941665.2022.2142620
Artificial intelligence psychological anthropomorphism: scale development and validation	AI Psychological Anthropomorphism Scale	2024	Others	10.1080/02642069.2024.2366970
Development and testing of an evaluation scale of personal digital	Personal Digital Assistant Evaluation Scale	2007	Others	10.1097/01.NCN.0000270043.60282.a3
Development and Validation of a Questionnaire to Assess the Radiologists' Views on the Implementation of Artificial Intelligence in Radiology (ATRAI-14)	Radiologists' Views on AI in Radiology Questionnaire (ATRAI-14)	2024	Others	10.3390/healthcare12192011
Development and Validation of an AI Virtual Streamer Scale for Live-Streaming E-Commerce	AI Virtual Streamer Scale (for E-Commerce)	2024	Others	10.1080/10447318.2024.2411088
Patients' views on the implementation of artificial intelligence in radiology: development and validation of a standardized questionnaire	Patients' Views on AI in Radiology Questionnaire	2020	Others	10.1007/s00330-019-06486-0
Perceived intelligence and perceived anthropomorphism of personal intelligent agents: Scale development and validation	Perceived Intelligence and Anthropomorphism Scale for Intelligent Agents	2019	Others	https://scholarspace.manoa.hawaii.edu/items/ecc8e91-01e0-4a06-8e29-a626abe58dc5
The Framework for AI Tool Assessment in Mental Health (FAITA - Mental Health): a scale for evaluating AI-powered mental health tools	FAITA–Mental Health: AI Tool Assessment Framework	2024	Others	10.1002/wps.21248
Validity and Reliability Analysis of the Artificial Intelligence-Digital Life Balance Scale	AI–Digital Life Balance Scale	2025	Others	10.1007/s11126-025-10167-1
Development of a Scale for Evaluating Critical Thinking Proficiency Among Generation Z Users of ChatGPT	Critical Thinking Proficiency Scale (for Gen Z ChatGPT Users)	2024	Cognitive and thinking skills	10.1007/978-3-031-63569-4_20
Mastering delegation to artificial intelligence creative tools: The concept, dimensions, and development of a scale to measure cognitive	Cognitive Outsourcing Behavior Toward AI Scale	2024	Cognitive and thinking skills	10.2224/sbp.13907
Measuring Metacognitive Skills: Validating MCS Scale to Assess the Influence of AI Applications Among University Students	Metacognitive Skills Questionnaire (MCSQ)	2024	Cognitive and thinking skills	10.1007/978-3-031-67890-5_1
Customer experience in AI-enabled products: Scale development and validation	Customer Experience in AI-Enabled Products Scale	2024	Consumer and customer experience	10.1016/j.jretconser.2023.103578

Measuring Artificial Intelligence Customer Experience: Scale Development and Validation	AI Customer Experience Scale	2025	Consumer and customer experience	10.1080/10447318.2025.2466064
Measuring Customer Experience in AI Contexts: A Scale Development	Customer Experience in AI Contexts Scale	2025	Consumer and customer experience	10.3390/jtaer20010031
Developing a formative scale to measure consumers' trust toward interaction with artificially intelligent (AI) social robots in service	Trust Toward AI Social Robots Scale	2021	AI trust	10.1016/j.chb.2021.106700
Means to an End: Assessing the Validity of Trust Scales in Artificial Intelligence Vignettes	Trust Scales in Artificial Intelligence Vignettes	2025	AI trust	10.1007/978-3-031-93412-4_5
Measuring trust in artificial intelligence: validation of an established scale and its short form	Trust in Automation Scale	2025	AI trust	10.3389/frai.2025.1582880
Validating Social Service Robot Interaction Trust (SSRIT) Scale in Measuring Consumers' Trust Toward Interaction With Artificially Intelligent (AI) Social Robots With a Chinese Sample of Adults	Social Service Robot Interaction Trust (SSRIT) Scale	2024	AI trust	10.1080/10447318.2023.2212224