

Editorial

We are pleased to present the final issue of the seventeenth volume of the ***Journal of Information Technology Review***. This issue features three compelling research articles exploring the current landscape of artificial intelligence.

The issue opens with ***“Mapping the AI Product Ecosystem: An Empirical Analysis of Market Concentration, Organisational Diversity, and Pricing Metadata Limitations.”*** Analyzing 3,027 product records, the authors examine the structural characteristics of AI-generated products, platforms, and organizations. Their findings reveal that ecosystem structure is inextricably linked to data quality. While major companies dominate the market, there is broad organizational participation; however, incomplete entity linkage and pricing metadata significantly limit deeper structural inferences.

The second article, ***“A Hierarchical Failure Taxonomy for Reliability Assessment of AI Agents: An Empirical Analysis of the Agent Failure Atlas 2026 Benchmark,”*** introduces a novel taxonomy and empirical reliability assessment. By analyzing 3,336 agent runs comprising 43,477 trajectory steps and 3,802 failure events the authors evaluate agent reliability across four dimensions: frequency, criticality, cascading behavior, and recoverability. The study identifies a two dimensional reliability landscape: highly prevalent but largely recoverable failures (such as tool use and state tracking errors) contrast sharply with rare but highly critical failures (such as validation and output errors).

Finally, ***“AI-Generated Language Assessment Validity, Reliability, Equity, Privacy, and Pedagogical Value”*** evaluates the responsible deployment of AI in language education. Utilizing the Responsible AI Language Education Benchmark a dataset of 960 learner profiles across eight countries and four CEFR proficiency levels the authors demonstrate that technical accuracy alone is insufficient. They conclude that a non compensatory, multi-pillar evaluation framework is essential to ensure AI assessments remain equitable, secure, and pedagogically sound.

We hope the readers find this collection of research to be a valuable reflection of the latest advancements and critical challenges in AI technology.

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