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December 2025

### The Application of Prompt Engineering in AI-Assisted Writing: A Cross-Domain Bibliometric Literature Review (2020-July 2025)

Lujie Huang, Ming Liu

ICDA '25: Proceedings of the 2nd International Conference on Intelligent Computing and Data Analysis • Pages 76–80 • <https://doi.org/10.1145/3772726.3772738>

Prompt engineering has rapidly emerged as the pivotal interface between generative artificial intelligence and human writing, yet the contours, drivers, and blind spots of this burgeoning field remain unmapped. We present the first large-scale ...

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This bibliometric analysis examined 1,049 peer-reviewed articles on prompt engineering in AI-assisted writing published between January 2020 and July 2025, revealing explosive 125-fold growth in research output. The field is dominated by US and Chinese institutions with authors of East Asian origin, publishing primarily in engineering and health-focused journals. Research concentrates on algorithmic optimization and applications in education and healthcare, while conspicuously neglecting ethics, bias, multilingualism, and non-English contexts. The authors identify a critical gap between technical capability and socio-ethical grounding, proposing a three-tier socio-technical framework encompassing token optimization, task-AI fit, and people-AI fit to ensure inclusive and responsible development of AI-assisted writing systems globally.

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## The Application of Prompt Engineering in AI-Assisted Writing: A Cross-Domain Bibliometric Literature Review (2020-July 2025)

Authors: Lujie Huang, Ming Liu | [Authors Info & Claims](#)

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This bibliometric study analyzes 1,049 peer-reviewed publications on prompt engineering in AI-assisted writing from January 2020 to July 2025, revealing explosive growth in the field with annual output increasing 125-fold. The research shows that scholarly interest has accelerated dramatically, with modest beginnings of 4 publications in 2020 and 8 in 2021, followed by a pivotal surge in 2023 with 70 publications, then exponential growth to 456 in 2024, and over 500 in the first half of 2025.

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## Transcript

Host:

Welcome to this deep dive. You know, we are looking at this fascinating paper called Collective Privacy Sensemaking of Everyday Lived Experiences. So to clarify for listeners our mission today is really exploring how youth build like privacy resilience together on places like Reddit and Discord.

Guest:

Right. So, from a research perspective, researchers analyzed 428 organic posts across a teen subreddit and a Discord server. I mean, this really let them see how teens truly handle privacy violations out in the wild, you know, away from adults.

Host:

Well, I always kind of assumed these kids were mostly worried about like big tech data collection and corporate surveillance, right? But are you saying their main anxiety is actually coming from inside their own houses?

Guest:

Yeah, exactly, cause a staggering 73 percent of their concerns are actually interpersonal, primarily just parents over-monitoring their devices. But they also face these institutional threats, you know, like schools mandating tracking software on student iPads.

Host:

Let's unpack that a little. Instead of a direct confrontation, is this basically a digital cat and mouse game for them?