

- [1] [2]
- [3] [2], [4], [5], [6], [7], [8], [9], [10], [11], [12], [13], [14]
- [1] Y. Shirota, B. Chakraborty, A. Kuwana, and H. Ohshima, "Deductive Reasoning Paths in Solving Graphical IGCSE Problems: A Comparative Analysis of ChatGPT's Algebraic and Visual Inference Strategies," *2026 IEEE 14th International Conference on Information and Education Technology (ICIET)* IEEE, Koriyama, Japan, pp. In print, 2026.
- [2] Y. Shirota, B. Chakraborty, A. Kuwana, and H. Ohshima, "Application of ChatGPT in Solving Lagrangian Multiplier Problems by Deductive Reasoning," *2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC)* IEEE, pp. 216–220, 2025.
- [3] Y. Shirota, "Keynote speech: Revolutionizing Education with AI: Solving Complex Mathematics Problems and Generating Educational Graphics Using ChatGPT," *5th International Conference on Electrical Engineering and Information Systems (CEEIS 2025)*, Bali, Indonesia, 2025.
- [4] Y. Shirota, A. Kuwana, and B. Chakraborty, "Generative AI in Financial Mathematics Problem-Solving: Integration of Linguistic and Symbolic Processing Functions," *International Conference on Artificial Intelligence in Education Technology* Springer, Barcelona, pp. 341–355, 2024.
- [5] Y. Shirota, B. Chakraborty, and A. Kuwana, "Let's make teaching materials for economic mathematics using ChatGPT," *Pacific Rim Intl. Conf. on Artificial Intelligence (PRICAI) tutorial*, Kyoto, 2024.
- [6] 白田由香利, 桑名杏奈, and B. Chakraborty, "経営数学教育における生成 AI の活用方法 —演繹推論法による数学解法の実践—[既発表論文]," *ソフトウェアエンジニアリングシンポジウム (SES)2024*, 東京, 日吉, 2024.
- [7] 白田由香利, 桑名杏奈, 大島裕明, and バサビ・チャクラボルティ, "ChatGPT を活用したラグランジュ未定乗数法問題の解法と教材生成," *電子情報通信学会、信学技報(WebDB 2024)*, pp. 6C-2, 2024.
- [8] 白田由香利 and 桑名杏奈, "経営数学教育における生成 AI の活用方法—演繹推論法によるラグランジュ法の教材自動作成—," *日本経営数学会第 46 回全国研究大会報告要旨集* 日本経営数学会, 東京, pp. 1–10, 2024.
- [9] 白田由香利, 桑名杏奈, and B. Chakraborty, "金融数学問題解法における ChatGPT による言語処理と記号処理機能の統合," *第 16 回データ工学と情報マネジメントに関するフォーラム (DEIM2024)*, vol. T1-B-2-04, 2024.
- [10] Y. Shirota, A. Kuwana, and B. Chakraborty, "Generative AI in financial mathematics problem-solving: Integration of linguistic and symbolic processing functions," *5th Int. Conf. on Artificial Intelligence in Education Technology (AIET2024)* Springer, Barcelona, 2024.
- [11] 白田由香利, "経営数学教育における生成 AI の活用方法—演繹推論法による数学解法の実践—," *日本経営数学会誌*, vol. 42, no. 1-2, pp. 3–16, 2023(実際には 2024).
- [12] 白田由香利 and 桑名杏奈, "ChatGPT を活用した金融数学問題の解法と教材作成," *信学技報*, vol. 123, no. 327, pp. 12–17, 2023.
- [13] 白田由香利 and バサビ・チャクラボルティ, "対話による ChatGPT への経済数学教育 ～ 誤りモデルの分析と指導プロセスの最適化 ～," *電子情報通信学会ヒューマンコミュニケーション基礎研究会 (HCS)*, pp. CNR2023–2016

HCS2023-2078, 2023.

- [14] 白田由香利, "推論によるデータ分析における ChatGPT の活用," *學習院大學經濟論集*, vol. 60, no. 3, pp. 179-195, 2023.