

# Research Publications

Institute of Computer Science

October 22, 2025

- [1] Zenith Arnejo, Benoit Gaudou, Mehdi Saqalli, and Nathaniel Bantayan. Automatic generation of abm narratives using simulation traces and llm. In *Proceedings of the 26th International Workshop on Multi-Agent-Based Simulation (MABS 2025)*, Detroit, United States, May 2025. Conference Paper, (hal-05025957).
- [2] R. T. Santos, A. J. Jacildo, A. D. Montecillo, R. J. D. Flores, and M. P. A. De Leon. Cross-sectional analysis of bacterial co-occurrence networks of bat gut-associated microbiomes sampled across various cave sites in calabarzon, philippines. Poster paper presented at IWOMB 2025 - International Workshop on Mathematical Biology, January 2025. Poster Paper.
- [3] Zenith Arnejo, Benoit Gaudou, Mehdi Saqalli, and Nathaniel Bantayan. Luntian: An agent-based model of an industrial tree plantation for promoting sustainable harvesting in the philippines. *Forests*, 16(8):1293, 2025. Journal Paper.
- [4] Zenith Arnejo, Benoit Gaudou, Mehdi Saqalli, and Nathaniel Bantayan. Communicating agent-based models to stakeholders: A scoping review. *Journal of Artificial Societies and Social Simulation*, 28(2), 2025. Journal Paper, (hal-05014943).
- [5] J. I. N. Gojo Cruz, J. M. L. de Vera, and K. E. Pilario. Machine learning-driven analysis of agro-climatic data for temperature modeling and forecasting in philippine urban areas. *Urban Climate*, 60, 2025. Journal Paper.
- [6] C. P. Osorio and J. I. N. Gojo Cruz. Promoting free flows via competition law: An ai industry blueprint for southeast asia. *Telecommunications Policy*, 49(5), 2025. Journal Paper.
- [7] M. R. U. Anacleto, J. M. Samaniego, M. C. C. Manuel, N. B. Lantican, and M. G. Q. Diaz. Taxonomic analysis of bacterial and archaeal communities collected from the manleluag hyperalkaline spring in pangasinan, philippines using two bioinformatic pipelines. *Philippine e-Journal for Applied Research and Development*, 15:1–13, 2025. Journal Paper.

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- [9] L. G. L. Talip and R. N. C. Recario. A dynamic query framework for research accessibility using openai and langchain. In Kohei Arai, editor, *Proceedings of the International Conference on Intelligent Computing (CompCom 2025)*, volume 1424 of *Lecture Notes in Networks and Systems*, , . Springer, Cham, 2025. Conference Paper.
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- [11] C. A. Del Rosario, R. C. Camaclang, E. Prieto-Araujo, and O. Gomis-Bellmunt. Kolmogorov-arnold network for machine learning-based motor condition diagnosis. In *2024 IEEE 7th International Conference on Electrical, Electronics and System Engineering (ICEESE)*, pages 1–5, . IEEE, November 2024. Conference Paper; Possibly indexed in Scopus.
- [12] J. P. Pabico. Regulating ai in education and empowering educators: Policy, governance, and ethical considerations (invited plenary paper). In *1st Research Conference on Mission-Driven Education (RCMDE 2024)*, Universidad de Sta. Isabel de Naga, Naga City, July 2024. Conference Paper.
- [13] R. E. O. Roxas. Large language models and natural language processing on minority languages: A systematic review. In *Pacific Asia Conference on Language, Information and Computation*, Tokyo, Japan, December 2024. Conference Paper; To be indexed on Scopus.
- [14] Angelica Anne A. Naguio and R. E. O. Roxas. Hybrid neural-rule based architecture for filipino stemming with fine-tuned bert variants. In *Pacific Asia Conference on Language, Information and Computation*, Tokyo, Japan, December 2024. Conference Paper; To be indexed on Scopus.
- [15] A. D. Madrid, V. R. Madrid, A. F. Cayetano, S. P. Catelo, A. T. Orillo, and R. L. Belleza. The value of transdisciplinarity in creating solutions to wicked problems: The heal-ph experience in a mobile app hackathon. In *7th Asia Future Conference*, Bangkok, Thailand, August 2024. Conference Paper.
- [16] Aldrin Joseph Hao and others. Validation of harvest date estimator mobile application for banana (banatech version 1): A way towards a more efficient farm planning. *Philippine Journal of Crop Science (PJCS)*, pages 12–21, April 2024. Journal Paper.

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- [32] Aldrin Hao and et al.. Banatech: A data-driven progressive web application for lakatan and saba/cardaba harvest date estimation. In *International Society for Southeast Asian Agricultural Sciences (ISSAAS) International Scientific Congress General Meeting*, November 2023.
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