Research Publications

Institute of Computer Science

February 18, 2025

- [1] 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.
- [2] 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.
- [3] Rachel Edita O. Roxas and Reginald Neil C. Recario. Scientific landscape on opportunities and challenges of large language models and natural language processing. *Indonesian Journal of Electrical Engineering and Computer Science*, 36(1):1–1x, October 2024. Journal Paper; Scopus-indexed.
- [4] 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.
- [5] 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.
- [6] 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.
- [7] 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.

- [8] 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.
- [9] 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.
- [10] E. Rico, J. Rabajante, J. Tubay, A. Lapitan, and V. R. Madrid. A multiobjective site selection model for evacuation centers in taguig city, philippines. *Natural Hazards*, April 2024. Journal Paper.
- [11] R. C. Camaclang III, S. G. Bon, A. J. J. Hao, and J. P. D. Banares. Harnessing the potential of open-source database platform and related web technologies for managing seed inventory of cereals germplasm collection. *The Philippine Journal of Crop Science*, 49(3):16–24, 2024. Journal Paper [WOS-indexed].
- [12] J. I. N. Gojo Cruz and P. C. Naval. Utilizing naïve bayes for multidimensional poverty classification and identifying key poverty determinants. 2024 6th International Conference on Computer Communication and the Internet (ICCCI), pages 12–17, 2024. Journal Paper; Scopus-indexed, Date Added to IEEE Xplore: 19 September 2024.
- [13] L. M. L. Ocampo and M. A. A. D. Clariño. A novel automatic definition selector and scoring scheme for the identification of filipino metaphors. 2024 6th International Conference on Computer Communication and the Internet (ICCCI), pages 24–29, 2024. Journal Paper; Scopus-indexed, Date Added to IEEE Xplore: 19 September 2024.
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- [15] S. D. A. Crespo and R. N. C. Recario. Lip reading filipino words using convolutional neural networks and recurrent neural networks. Lecture Notes in Networks and Systems, vol 823, 2024. Journal Paper; Scopus-indexed, Published Online 2024.
- [16] J. M. Justo and R. N. C. Recario. Text simplification system for legal contract review. Lecture Notes in Networks and Systems, vol 919, 2024. Journal Paper; Scopus-indexed.
- [17] R. B. Valencia and R. N. C. Recario. A non-transfer learning approach in exploring the variations of extractive summarization components for a

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- [19] Samuel Darwin D. Lagrosas and Lei Kristoffer R. Lactuan. Peanut mold detection via marker-based watershed segmentation and an artificial neural network with feedforward backpropagation. *Philippine e-Journal for Applied Research and Development*, 14:1–14, 2024. Journal Paper.
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- [24] A. K. D. Balangcod and J. P. Pabico. Extracting graphs from plant leaf venations using image processing. Fourth International Conference on Image Processing and Capsule Networks: ICIPCN 2023, 798:131, November 2023. Journal Paper.
- [25] 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.
- [26] Edwin P. Alcantara and Arian J. Jacildo. Agent-based modeling for insect resistance management. In ISSAAS International Scientific Congress and General Meeting 2023 "Integrated Management of Southeast Asian Agricultural Landscapes", Acacia Hotel Manila, Alabang, Muntinlupa City, Philippines, November 2023. (poster).

- [27] J.F. Cantos and V.R. Madrid. Kar-mo kolektib: An automated vehicle data miner using computer vision. In *23rd PCSC*, U San Jose-Recoletos, Cebu City, March 2023. (poster).
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