

Research Publications

Institute of Computer Science

February 16, 2025

- [1] 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.
- [2] 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.
- [3] 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.
- [4] 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.
- [5] 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.
- [6] 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.
- [7] 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.

- [8] 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.
- [9] E. Rico, J. Rabajante, J. Tubay, A. Lapitan, and V. R. Madrid. A multi-objective site selection model for evacuation centers in taguig city, philippines. *Natural Hazards*, April 2024. Journal Paper.
- [10] 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.
- [11] 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.
- [12] David Ochieng Otewa and Jaime Samaniego. Machine-learning model for program selection in technical and vocational educational training (tveta) in kenya. *The International Journal of Science & Technoledge*, 12(8), 2024. Journal Paper.
- [13] 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.
- [14] 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.
- [15] R. B. Valencia and R. N. C. Recario. A non-transfer learning approach in exploring the variations of extractive summarization components for a low-resource language. *Lecture Notes in Networks and Systems, vol 919*, 2024. Journal Paper; Scopus-indexed.
- [16] K. J. Z. C. Tan, K. L. M. Tan, and R. N. C. Recario. Decoding philippine grocery receipt item names using k-nearest neighbor search and long short-term memory network. *Lecture Notes in Networks and Systems, vol 1016*, 2024. Journal Paper; Scopus-indexed.
- [17] 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.

- [18] R. Gabud, P. Lapitan, V. Mariano, E. Mendoza, N. Pampolina, M. A. A. Clariño, and R. Batista-Navarro. Unsupervised literature mining approaches for extracting relationships pertaining to habitats and reproductive conditions of plant species. *Frontiers in Artificial Intelligence*, 7:1371411, 2024. Journal Paper; Scopus-indexed.
- [19] J. V. R. Pleto, D. B. Magcale-Macandog, J. G. Campang, Y. C. L. Cabilon, M. G. L. D. Perez, F. A. Natuel, N. J. A. Larida, J. P. Pabico, C. D. Predo, and V. G. V. Paller. Assessment and local community perception on the water quality of the seven crater lakes of san pablo city, philippines. *Journal of Environmental Science and Management*, 27(1):50–60, 2024. Journal Paper.
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- [22] 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].
- [23] 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.
- [24] 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.
- [25] 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).
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- [39] Zenith Arnejo, Mehdi Saqalli, Benoit Gaudou, Paul Bannwart, and Flavien Loup-Hadamard. A dynamic reconstitution of the vegetation of a pre-neolithic french mediterranean territory using plant functional types. In *42e Rencontres Internationales d’Archéologie et d’Histoire de Nice Côte d’Azur DYNAMIQUES DES PEUPELEMENTS, DES TERRITOIRES ET DES PAYSAGES : BILAN ET PERSPECTIVES EN ARCHEOLOGIE SPATIALE. HOMMAGE A JEAN-LUC FICHES*, Nice, France, October 12-14 2022.
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