List of 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 (tvet) 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.

[20] 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. In *Future of Information and Communication Conference*, pages 519–537, 2024. Conference Paper.

[21] J. M. Justo and R. N. C. Recario. Text simplification system for legal contract review. In *Future of Information and Communication Conference*, pages 105–123, 2024. Conference Paper.

[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).

[26] 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).

[27] E.N. Isungga, C. Khan, and R.N. Recario. A qr code-based digital contact tracing system for covid-19. In *23rd PCSC*, U San Jose-Recoletos, Cebu City, March 2023. (poster).

[28] Reginald Neil Recario and Daniel Pete M. Aguilar. Hinay: A mobile application for real-time traffic sign detection. In *Computing Conference 2023*, London, June 2023.

[29] D. P. M. Aguilar and R. N. C. Recario. Hinay: A mobile application for real-time traffic sign detection. *Science and Information Conference*, pages 1058–1078, July 2023. Journal Paper.

[30] Eugene Val D. Mangaoang and Jaime M. Samaniego. Leaf-based classification of important indigenous tree species by different feature extraction techniques and selected classification algorithms. *International Journal of Advanced Computer Science and Applications (IJACSA)*, 14(1):35–41, January 2023. Journal Paper, Scopus-Indexed.

[31] Hoa Xuan Trieu, Maria Art Antonette D. Clariño, Vladimir Y. Mariano, Val Randolf M. Madrid, Ria Mae H. Borromeo, and Thuong Thanh Tran. 3dkd - an effective knowledge distillation-based model for human fall detection. In *2023 RIVF International Conference on Computing and Communication Technologies*, December 23-25 2023. Conference Paper.

[32] R. Gabud, P. Lapitan, V. Mariano, E. Mendoza, N. Pampolina, M. A. A. Clariño, and R. T. Batista-Navarro. A hybrid of rule-based and transformer-based approaches for relation extraction in biodiversity literature. In *Proceedings of the 2nd Workshop on Pattern-based Approaches to NLP in the Age of Deep Learning*, pages 103–113, December 2023.

[33] R. Camaclang, F. Ballesteros, and A. Labao. Predicting land cover map changes in the philippines for use in lulc-based carbon capture monitoring using deep learning. In *18th International Conference on Environmental Science and Technology*, August 2023. Conference Paper (Scopus-indexed).

[34] D. B. Magcale-Macandog, A. R. Salvacion, J. P. Pabico, K. N. Tingson, M. A. Reblora, J. D. Edrial, F. P. Lansigan, and M. T. Zafaralla. Developing a bayesian model of climate-induced lake overturn in talisay, taal lake. In S. Dhyani, D. Adhikari, R. Dasgupta, and R. Kadaverugu, editors, *Ecosystem and Species Habitat Modeling for Conservation and Restoration*, pages 101–119. Springer Nature Singapore, April 2023. Book Chapter.

[35] John O-Neil V. Geronimo, Eldrin DLR. Arguelles, and Katrina Joy M. Abriol-Santos. Automated classification and identification system for freshwater algae using convolutional neural networks. *Philippine Journal of Science*, 152(1):325–335, 2023. Journal Paper.

[36] Zenith Arnejo, Leonardo Barua, Paul Joseph Ramirez, Cristino Tiburan Jr., and Nathaniel Bantayan. An agent-based model of a sustainable forest operation in a theoretical lowland dipterocarp forest modeled after mount makiling forest reserve, philippines. *Forests*, 14(2):428, 2023. Journal Paper.

[37] V. R. M. Madrid, A. V. Magnaye, A. A. Porca1, L. D. Taylo, and D. M. Hautea. Design and implementation of cost-effective it-based phenotyping tools for research on eggplant breeding techniques. *Asia Future Conference*, 6B:103–108, 2023. Journal Paper.

[38] JKB Tumpalan and RNC Recario. English-filipino speech topic tagger using automatic speech recognition modeling and topic modeling. In *Advances in Information and Communication. FICC 2023*, volume 652, pages 427–445, 2023.

[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 PEUPLEMENTS, DES TERRITOIRES ET DES PAYSAGES : BILAN ET PERSPECTIVES EN ARCHEOLOGIE SPATIALE. HOMMAGE A JEAN-LUC FICHES* , Nice, France, October 12-14 2022.

[40] R C Ramirez, E S Agulto, S D Glaser, Z Zhang, J A C Hermocilla, and V B Ella. Development of a real-time wireless sensor network-based information system for efficient irrigation of upland and lowland crop production systems. *IOP Conference Series: Earth and Environmental Science*, 1038(1):012028, June 2022.

[41] Zenith Arnejo, Benoit Gaudou, Mehdi Saqalli, Bantayan Nathaniel, Barua Leonardo, and others. Visualizing abm submodels to promote stakeholder participation: A look into sustainable forest operations. In *International Environmental Modelling and Software Society (iEMSs 2022)*, Bruxelles, Belgium, Jul 2022. ⟨hal-03724897⟩.

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[43] J. I. N. G. Cruz and M. A. A. D. Clariño. An agent-based modeling and simulation tool for the exploration of the effects of masks and vaccines on covid-19 spread. In *2022 2nd International Conference in Information and Computing Research (iCORE)*, pages 60–65, . IEEE, December 2022.

[44] C. R. Catayna and M. A. A. D. Clariño. Sentiment analysis and topic classification of twitter-based data set on the face-to-face classes resumption in the philippines during the covid-19 pandemic. In *2022 2nd International Conference in Information and Computing Research (iCORE)*, pages 39–44, . IEEE, December 2022.

[45] Annabelle T. Abrera, Melvin A. Castrosanto, Joseph Anthony C. Hermocilla, and Marlon N. Manalo. Molecular docking of ecdysone agonists and limonoid components of calamondin seeds to tobacco budworm ecdysone receptor. *KIMIKA*, 33(1):09–19, 2022.

[46] RC. Mendoza, AJ. Jacildo, VVRM. Madrid, RDC. Mercado, AD. Romano, APG. Cantalejo., LMC. Urriza, VC. Daracan, and R. Manalo. Automated classification of selected philippine wood species using image analysis and artificial neural networks. *Philippine Journal of Science (PJS)*, 2022.

[47] T. Tran and M. A. A. Clariño. Solving multi-pickup and delivery problem with time windows using ant colony optimization. *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, 13(4):35–41, October-December 2021.

[48] I. M. Urriza and M. A. A. Clariño. Aspect-based sentiment analysis of user created game reviews. *2021 24th Conference of the Oriental CO-COSDA International Committee for the Co-ordination and Standardisation of Speech Databases and Assessment Techniques (O-COCOSDA)*, pages 76–81, November 2021.

[49] Zenith Arnejo, Paul Bannwart, Flavien Loup-Hadamard, Marianne Cahierre, Zakari Iguenad, and et al.. Landscape, vegetation and resources' modeling : reconstituting the pre-neolithic roussillon territory (france) and its vegetation by implementing plant functional types, hydrosystems and climate into a cellular automaton. In *GAMA Days 2021*, Jun 2021.

[50] Zenith Arnejo, Barua Leonardo, Ramirez Paul, Tiburan Cristino Jr, and Bantayan Nathaniel. An agent-based model of a sustainable forest operation: A case of a low mountain dipterocarp forest in the philippines. In *G1st conference GAMA Days 2021*, Jun 2021.

[51] E.P. Alcantara, A.J. Jacildo, J.F. Rabajante, L.A. Portales, J.L. Adorada, and B.L. Caoili. *Insect resistance management of Bt corn in the Philippines.* page 165. CSIRO Publishing, February 2021. [Abstract].

[52] J.D. Fernandez and M.A.A.D. Clariño. Image-based crop leaf disease identification using convolutional neural network (cnn). *Philippine Computing Journal*, Vol XVI(No 2), December 2021. [Accepted for publication].

[53] T. X. Hoa, V. R. M. Madrid, and E. A. Albacea. A lightweight model for falling detection. In *2021 RIVF International Conference on Computing and Communication Technologies (RIVF)*, pages 1–5, . IEEE, August 2021.

[54] John Carlos I. Ignacio, Maricris Zaidem, Carlos Casal Jr., Shalabh Dixit, Tobias Kretzschmar, Jaime M. Samaniego, Merlyn S. Mendioro, Detlef Weigel, and Endang M. Septiningsih. Genetic mapping by sequencing more precisely detects loci responsible for anaerobic germination tolerance in rice. *Plants*, 10(4):705, April 2021. [Special Issue on Genomics, Genetics, and Breeding for Rice Crop Improvement].

[55] Mylah Rystie Anacleto, Ailea Kathleen Macaraeg, Joverlyn Gaudillo, Lei Rigi Baltazar, Beatrice Tiangco, and Jason Albia. Developing open-source data repository solutions for cancer research in the philippines: A brief review. In *ACRES 2021*, 24 Sept 2021.

[56] Claire Danielle Era, Arian Jacildo, and John Carlos Ignacio. Pevar: Automated pedigree verification of rice. In *ACRES 2021*, 24 Sept 2021.

[57] Andrea Nicole Cuevas and Val Randolf Madrid. Detecting leafminer damage in images of eggplant leaves using convolutional neural networks. In *ACRES 2021*, 24 Sept 2021.

[58] Gie Grajo and Claizel Coubeili Cepe. Comparative analysis of packing algorithms for the tetris problem and game. In *ACRES 2021*, 24 Sept 2021.

[59] Michael Kenneth Mojar and Val Randolf Madrid. Convxt: A convolutional neural network express tool for image classification applications. In *ACRES 2021*, 24 Sept 2021.

[60] Z.O. Arnejo, J.P. Pabico, and N.P. Bantayan. Automated detection of coconut palm encroachment in the mt. makiling forest reserve in laguna, philippines. In S. Bahk, P. Tran-Gia, J.V. der Spiegel, and N.X. Quynh, editors, *Proceedings of the IEEE Eight International Conference on Communications and Electronics (IEEE ICCE 2020)*, pages 686–691, Novotel Phu Quoc Resort, Phu Quoc Island, Vietnam, 13-15 January 2021.

[61] K.M.P. Oliveros, A.R.R. Rosana, A.D. Montecillo, R.B. Opulencia, A.J. Jacildo, T.O. Zulaybar, and A.K. Raymundo. Genomic insights into the antimicrobial and anticancer potential of streptomyces sp. a1-08 isolated from volcanic soils of mount mayon, philippines. *Philippine Journal of Science*, 2021. [Accepted for publication in the December 2021 Issue].

[62] RNC Recario, LGL Talip, RAB Cruz, MAT Layones, and RET Paguila et al.. Examining sona 2020-related tweets through sentiment analysis. In *Linguistic Society of the Philippines International Conference*, 2021.

[63] Juan Miguel J. Bawagan. A kidney exchange matching application using the blossom and hungarian algorithms for pairwise and multiway matching. *Indian Journal of Science & Technology*, 13(2), 2020. (Journal Paper).

[64] Monina Gazelle Charina B. Carandang. Web application for managing insecticide resistance of mango pests in the philippines. *Philippine e-Journal for Applied Research and Development*, 10:B:1–8, 2020. (Journal Paper).

[65] Ashlyn Kim Balangcod and Jaderick Pabico. Automatic identification of selected dicot plant species using graph properties from leaf venations. In *PCSC 2020*, 2020. (Conference Paper).

[66] Kendall Jeane Jaen and Jaderick Pabico. Design and implementation of a graph-based database system for virtual reality museums and heritage sites applications. In *PCSC 2020*, 2020. (Conference Paper).

[67] Marie Betel B. de Robles, Joseph Anthony C. Hermocilla, and Jaderick P. Pabico. Characterization and classification of malware traffic over the tor network. In *Proceedings of the 20th Philippine Computing Science Congress (PCSC 2020)*, pages 78–87, Philippines, 2020. Computing Society of the Philippines. (Conference Paper).

[68] Miyah D. Queliste, Joseph Anthony C. Hermocilla, and Jaderick P. Pabico. Design and implementation of an autonomous surface vehicle platform for water quality monitoring. In *Proceedings of the 20th Philippine Computing Science Congress (PCSC 2020)*, pages 14–25, Philippines, 2020. Computing Society of the Philippines. (Conference Paper).

[69] Jomarey Fernandez and Maria Art Antonette Clariño. Image-based crop leaf disease identification using convolutional neural network (cnn). In *3rd Information and Computing Education Conference (CSP-ICE 2020)*, 2020. (Conference Paper; Best Paper Honorable Mention).

[70] Aldrin Joseph Hao, Concepcion Khan, Rex Victor Cruz, and Danilo Mercado. Deep learning approach to land cover classification using multitemporal sentinel-1 sar images of quinali a watershed. In *3rd Information and Computing Education Conference (CSP-ICE 2020)*, 2020. (Conference Paper; Best Paper Honorable Mention).

[71] Rikki Lee Mendiola, Catherine Bucu-Flores, and Concepcion Khan. Building a filipino-english bilingual knowledge taxonomy using clustering: Towards cross-lingual word embedding model integration of local aanr knowledge. In *3rd Information and Computing Education Conference (CSP-ICE 2020)*, 2020. (Conference Paper; Best Paper).

[72] Ivan Marc H. Escamos, Maria Art Antonette D. Clariño, Joseph Anthony C. Hermocilla, Jaderick P. Pabico, and Cristino L.. A memetic algorithm for generating spectral indices for remotely sensed imagery. In *40th Asian Conference on Remote Sensing, ACRS 2019*, Korea, Oct 2019.

[73] A. Carajay, J.G. Angeles, R. Marcelino, M.A.A.D. Clarino, K.J.M. Abriol-Santos, and J.M. Samaniego. Cuap: A software package for codon usage patterns analysis. In *PCSC 2019*, National University, Manila, March 2019.

[74] C. Ronquillo and RNC Recario. Transcript relevance and certainty verification through sentence classification and semantic similarity analysis. In *15th National Natural Language Processing Research Symposium (15NNLPRS)*, Bicol University, Legazpi, March 2019.

[75] K.L.M. Tan and M.A.A.D. Clariño. Stock market sentiment analysis using finance related tweets towards stock price analysis. In *15th National Natural Language Processing Research Symposium (15NNLPRS)*, Bicol University, Legazpi, March 2019.

[76] Ashlyn Kim D. Balangcod, Lance Licnachan, Danilo J. Mercado, Jaime M. Samaniego, and Jaderick P. Pabico. Levex: a tool for leaf venation extraction using image processing. In *Accepted in 11th Flora Malesiana Symposium*, University of Brunei Darussalam, June 2019.

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[81] Claizel Coubeili L. Cepe and Maria Art Antonette D. Clarino. Feature selection for heartbeat classification using naive bayes and k-nearest neighbor. *Philippine e-Journal for Applied Research and Development*, 9:40–48, 2019.

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[88] MFP Caraan, JJMC Vaethbrueckner, CB Bobiles, KJG Jaen, and others. Rizal shrine goes digital: A review of virtual reality frameworks. In *12th UPLB CAS Student-Faculty Research Conference (SFRC 2019)*, 2019.

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[93] MD Queliste, JC Hermocilla, and JP Pabico. Odette: An autonomous surface vehicle platform for water quality monitoring. In *Southeast Asian University Consortium for Graduate Education in Agriculture*, 2019.

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[95] AKD Balangcod, L Licnachan, DJ Mercado, JM Samaniego, and JP Pabico. Levex: A tool for leaf venation extraction using image processing. In *Flora Malesiana Symposium 11*, 2019.

[96] MCS Estremos and JP Pabico. An 'artificial eye' for supporting the mobility of visually impaired. In *First National Conference on Inclusive Education*, 2019.

[97] JP Pabico. Leveling the learning field: Augmenting traditional classrooms with virtual worlds. In *First National Conference on Inclusive Education*, 2019.

[98] ZO Arnejo and JP Pabico. Automated detection and counting of coconut palm in aerial images. In *ASTHRDP Graduate Scholar's Conference*, 2019.

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[104] Kharisa Mae Macaraig and Danilo Mercado. Automated extraction of information using machine learning and image processing in philippine government-issued ids. In *ICE 2018*, Cebu City, October 4-6 2018.

[105] Claizel Coubeili Cepe and Maria Art Antonette Clariño. Feature selection for heartbeat classification using naïve bayes. In *ICE 2018*, Cebu City, October 4-6 2018.

[106] Claizel Coubeili Cepe and Maria Art Antonette Clariño. Feature selection for heartbeat classification using naïve bayes and knn. In *NCITE 2018 (awarded best paper under CS category)*, St. Paul University, Tuguegarao City, October 25-27 2018.

[107] Rikki Lee Mendiola, Katrina Joy M. Abriol-Santos, Charlene Mae B.Arkaina, and Judith Clarisse Punzalan. Technology acceptance as design and domestication: The case of swinecart. In *8th National Conference and 1st International Conference of the Association of Development Communicators and Practitioners (ADCEP)*, College of Development Communication, UPLB, November 30 - December 2 2018.

[108] Maria Art Antonette Clariño and Eliezer Albacea. Exploring mathematical modeling towards agent-based model for leaf vein development. In *5th ACM Women in Computing-Philippines Celebration 2018*, Legazpi City, November 24 2018.

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