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.
- [14] 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.
- [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

- low-resource language. Lecture Notes in Networks and Systems, vol 919, 2024. Journal Paper; Scopus-indexed.
- [18] 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 shortterm memory network. *Lecture Notes in Networks and Systems*, vol 1016, 2024. Journal Paper; Scopus-indexed.
- [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.
- [20] 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.
- [21] 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.
- [22] 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.
- [23] 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.
- [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).
- [28] 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).
- [29] 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.
- [30] 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.
- [31] 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.
- [32] 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.
- [33] 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.
- [34] 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 (Scopusindexed).
- [35] 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.

- [36] 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.
- [37] 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.
- [38] 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.
- [39] 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.
- [40] 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 ARCHEOLO-GIE SPATIALE. HOMMAGE A JEAN-LUC FICHES, Nice, France, October 12-14 2022.
- [41] 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.
- [42] 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).
- [43] Zenith Arnejo, Paul Bannwart, Flavien Loup-Hadamard, Marianne Cahierre, Julien Azuara, and others. Reconstituting a pre-neolithic territory by implementing plant functional types: Application to the roussillon territory (france). In *International Environmental Modelling and Software Society (iEMSs 2022)*, Bruxelles, Belgium, Jul 2022. (hal-03724876).

- [44] 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.
- [45] 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.
- [46] 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.
- [47] 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.
- [48] 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.
- [49] 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.
- [50] 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.
- [51] 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.
- [52] 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].

- [53] 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].
- [54] 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.
- [55] 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].
- [56] Mylah Rystie Anacleto, Ailea Kathleen Macaraeg, Joverlyn Gaudillo, Lei Rigi Baltazar, Beatrice Tiangco, and Jason Albia. Developing opensource data repository solutions for cancer research in the philippines: A brief review. In ACRES 2021, 24 Sept 2021.
- [57] Claire Danielle Era, Arian Jacildo, and John Carlos Ignacio. Pevar: Automated pedigree verification of rice. In ACRES 2021, 24 Sept 2021.
- [58] 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.
- [59] Gie Grajo and Claizel Coubeili Cepe. Comparative analysis of packing algorithms for the tetris problem and game. In $ACRES\ 2021$, 24 Sept 2021.
- [60] Michael Kenneth Mojar and Val Randolf Madrid. Convxt: A convolutional neural network express tool for image classification applications. In ACRES 2021, 24 Sept 2021.
- [61] 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.
- [62] 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].

- [63] 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.
- [64] 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).
- [65] 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).
- [66] 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).
- [67] 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).
- [68] 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).
- [69] 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).
- [70] 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).
- [71] 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).
- [72] 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).

- [73] 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.
- [74] 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.
- [75] 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 (15NNL-PRS), Bicol University, Legazpi, March 2019.
- [76] 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.
- [77] 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.
- [78] M.D. Queliste, J.C. Hermocilla, and J.P. Pabico. Odette: An autonomous water quality surface vehicle platform for water quality monitoring. In The Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) First Faculty Forum, SEARCA, UPLB, July 2019.
- [79] K.J. B. De Luna and D. J. Mercado. Classification of filipino meteorological disaster-related tweets using convolutional neural networks. In The Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) First Faculty Forum, SEARCA, UPLB, July 2019.
- [80] John Patrick Villa Juan Albacea and Jaime M Samaniego. Restructuring loosely structured databases for generating local statistics. *Indian Journal of Science & Technology*, 12(47), December 2019.
- [81] Cyrez Ronquillo and Reginald Neil Recario. Measuring transcript relevance and certainty through sentence classification and semantic similarity analysis. *Philippine Computing Journal*, X1V(1), August 2019.
- [82] 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.

- [83] Andrew T. Marges and Jaime M. Samaniego. A method of semi-supervised learning using siamese neural network for disaster monitoring on philippine social media. *Philippine e-Journal for Applied Research and Devel*opment, 9:27–39, 2019.
- [84] Lei Kristoffer R. Lactuan, Danilo J. Mercado, and Jaime M. Samaniego. Labgis: A real estate property geographical information system (gis) for local government units. *Philippine e-Journal for Applied Research and Development*, 9:14–26, 2019.
- [85] Merlyn Soriano, Noba Hilvano, Ronald Garcia, Aldrin Joseph Hao, Aldin Alegre, and Jr. Cristino Tiburan. Land use/land cover change detection and urban sprawl analysis in the mount makiling forest reserve watersheds and buffer zone, philippines. *Environments*, 6(2):9, 2019.
- [86] DJ Sarroza. Isla an algorithmic approach to assisted narrative planning and assembly. In 12th UPLB CAS Student-Faculty Research Conference (SFRC 2019), 2019.
- [87] MBB de Robles, JAC Hermocilla, and JP Pabico. Tractor: A system for feature extraction and classification of tor traffic. In 12th UPLB CAS Student-Faculty Research Conference (SFRC 2019), 2019.
- [88] KBP Pelaez and JP Pabico. Design of a stock trading system for non-professional traders. In 12th UPLB CAS Student-Faculty Research Conference (SFRC 2019), 2019.
- [89] 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.
- [90] JJMC Vaethbrueckner, MFP Caraan, CB Bobiles, KJG Jaen, and others. Geotagging and mapping of rizal monuments in calabarzon. In 12th UPLB CAS Student-Faculty Research Conference (SFRC 2019), 2019.
- [91] ZO Arnejo, NC Bantayan, and JP Pabico. An artificial neural network model for counting coconut palm in aerial images of mt. makiling forest reserve. In 8th National Scientific Conference and General Assembly of the Restoration, 2019.
- [92] JP Pabico. Walkability and drivability of road networks of caraga cities. In 2019 MSP CARAGA Annual Convention, 2019.
- [93] JP Pabico. Circuity of city road networks in calabarzon: A graph-theoretic approach. In 2019 MSP CALABARZON Convention and General Assembly, 2019.
- [94] 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.

- [95] JP Pabico. Ict and computing in animal production: Agtech 4.0 for the animal industry. In 7th National Congress and 2019 Philippine Agriculturists' Summit, 2019.
- [96] 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.
- [97] MCS Estremos and JP Pabico. An 'artificial eye' for supporting the mobility of visually impaired. In *First National Conference on Inclusive Education*, 2019.
- [98] JP Pabico. Leveling the learning field: Augmenting traditional classrooms with virtual worlds. In *First National Conference on Inclusive Education*, 2019.
- [99] ZO Arnejo and JP Pabico. Automated detection and counting of coconut palm in aerial images. In ASTHRDP Graduate Scholar's Conference, 2019.
- [100] MFP Caraan, JJMC Vaethbrueckner, KJG Jaen, DM dela Rosa, and others. Anaglipo ng bahay ni rizal sa calamba. In 3rd UPLB Interdisciplinary Humanities Research Conference (IHRC 2019), 2019.
- [101] KJG Jaen, DM dela Rosa, MFP Caraan, JJMC Vaethbrueckner, and others. Design of a digital repository for 360-degree images. In 3rd UPLB Interdisciplinary Humanities Research Conference (IHRC 2019), 2019.
- [102] JJMC Vaethbrueckner, MFP Caraan, KJG Jaen, DM dela Rosa, and others. Geotagging and mapping of rizal monuments in laguna. In 3rd UPLB Interdisciplinary Humanities Research Conference (IHRC 2019), 2019.
- [103] DM dela Rosa, LKR Lactuan, KJG Jaen, MFP Caraan, and others. Stitching images for surround viewing: A review and demonstration of state-of-the-art. In 3rd UPLB Interdisciplinary Humanities Research Conference (IHRC 2019), 2019.
- [104] JP Pabico. The word adjacency network of pdu30's first sona. In 3rd UPLB Interdisciplinary Humanities Research Conference (IHRC 2019), 2019.
- [105] 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.
- [106] 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.

- [107] 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.
- [108] 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.
- [109] 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.
- [110] Almie Carajay, Jorge Gil Angeles, Rocky Marcelino, Maria Art Antonette Clariño, Katrina Joy Abriol-Santos, and Jaime Samaniego. Cuap: Codon usage analysis package (cuap) for the analysis of codon usage patterns. In 11th UPLB-CAS Student-Faculty Conference, CAS Auditorium, UPLB, November 19 2018.
- [111] Andrew Marges and Jaime Samaniego. A method of semi-supervised learning using siamese neural network for disaster monitoring on social media. In 11th UPLB-CAS Student-Faculty Conference, CAS Auditorium, UPLB, November 19 2018.
- [112] Jules Ivan M. Vital and Katrina Joy M. Abriol-Santos. Topic modeling of facebook posts in the student academic information system (sais) bulletin board group using hdbscan. In 11th UPLB-CAS Student-Faculty Conference, CAS Auditorium, UPLB, November 19 2018.
- [113] J.P. Pabico. Details not provided. In Baquio, May 2018.
- [114] Davood Pour Yousefian Barfeh and Vladimir Y. Mariano. Rule-based multiple target monitoring in robot vision using partitioning. In 2018 2nd International Conference on Control Engineering and Artificial Intelligence (CCEAI 2018), Boracay, Jan. 19-21 2018.
- [115] Davood P.Y.B., J.G. Ebron, and J.P. Pabico. Insertion sorter in p systems. Journal of Physics: Conference Series, 976(1):012004, February 2018.
- [116] J.P. Pabico. Generalizing s-i-r for non-terminal epidemiological events. In 53rd BIOTA Annual National Convention and Scientific Sessions (BIOTA 2018), University of San Agustin, Iloilo City, Iloilo, 5-7 April 2018.
- [117] J.P. Pabico, K.N.M. Vivas, and A.M. Bauson. The acoustic properties of roasted coffee beans can determine the beans' variety. In 53rd BIOTA

- Annual National Convention and Scientific Sessions (BIOTA 2018), University of San Agustin, Iloilo City, Iloilo, 5-7 April 2018.
- [118] Z.O. Arnejo, N.C. Bantayan, and J.P. Pabico. Counting and classification of coconut tree crowns in forest aerial image using digital image processing and artificial neural networks. In 53rd BIOTA Annual National Convention and Scientific Sessions (BIOTA 2018), University of San Agustin, Iloilo City, Iloilo, 5-7 April 2018.
- [119] M.D. Queliste, J.C. Hermocilla, and J.P. Pabico. Design and fabrication of an autonomous surface drone for water quality monitoring. In 7th Restoration Ecology Society of the Philippines (RESPhil)-Saving the Cordillera Ecosystems Network (SCENe) National Scientific Conference and General Assembly (RESPhil-SCENe 2018), University of the Philippines Baguio, 31 May-3 June 2018.
- [120] TJKP Monserrat, F Pitagan, and EA Albacea. Narrative instructional creation toolkit for interactive platforms for learning. In Asian CHI Symposium/Emerging HCI Research Collection, ACM Conference on Human Factors in Computing Systems (CHI 2018), Montreal, Canada, 21-26 April 2018.
- [121] Jickerson P. Lado, Katrina Joy M. Abriol-Santos, Marcelina C. Miranda, Charlotte H. Hagosojos, Jimby E. Casquete, Maritess E. Mojica, and Nina M. Cadiz. The sex-disaggregated statistics of members of recognized uplb student organizations: A five-year assessment. In UP Society of Research, Extension, and Professional Staff, Inc. 5th Annual Scientific Conference and 9th General Assembly, Tagaytay Haven Hotel, Ulat, Tagaytay City, Cavite, 21-23 March 2018.
- [122] Jickerson P. Lado, Katrina Joy M. Abriol-Santos, Marcelina C. Miranda, Charlotte H. Hagosojos, Jimby E. Casquete, Maritess E. Mojica, and Nina M. Cadiz. Sex-and-gender dimensions of key positions in recognized uplb student organizations: Its five-year prevalence and progression. In First National Conference on Southern Luzon Studies, University of the Philippines Los Baños, Los Baños, Laguna, 18-20 July 2018.
- [123] J.M.C.V. Abriol-Santos, K.J.M. Abriol-Santos, M.C. Miranda, C.H. Hagosojos, and N.M. Cadiz. Application of information technology in the delivery of student services of the office of student affairs. *UPLB Journal*, 16:1–17, 2018.
- [124] A.D. Montecillo, A.K. Raymundo, I.A. Papa, G.M.B. Aquino, A.J. Jacildo, P. Stothard, and A.R.R. Rosana. Near-complete genome sequence of ralstonia solanacearum t523, a phylotype i tomato phytopathogen isolated from the philippines. *Microbiology Resource Announcements*, 7(12), 2018.

- [125] Maria Art Antonette D. Clariño and Eliezer A. Albacea. Computational modeling and simulation of leaf vein development using l-systems. In 2nd International Science Graduate Scholars' Conference, Philippine International Convention Center (PICC), Pasay City, May 24-25 2017.
- [126] V.R.M. Madrid, Maricor Soriano, and E.A. Albacea. Developing express benthic cover image analysis tools for coral reef imagery. In 2nd International Science Graduate Scholars' Conference, Philippine International Convention Center (PICC), Pasay City, May 24-25 2017.
- [127] Maria Art Antonette D. Clariño and Eliezer A. Albacea. Computational modeling and simulation of leaf vein development using l-systems. In Proceedings of the 2nd International Science Graduate Scholars' Conference, Pasay City, May 2017.
- [128] Shiela Kathleen L. Borja, Fernando O. Paras Jr., Jaime M. Samaniego, Concepcion L. Khan, Eliezer A. Albacea, and Damasa M. Macandog. Gis-based solar facility location using an analytic hierarchy process and weighted goal programming approach. In 14th International Agricultural Engineering Conference and Exhibition; and 67th Philippine Society of Agricultural Engineers Annual National Convention, Legaspi City, Albay, April 23-29 2017. (awarded 3rd Place).
- [129] Jaderick Pabico. An epidemiological model of drug addiction. In 2017 MSP Cebu Research Congress and Convention, Cebu City, 8-9 December 2017.
- [130] Davood Pour Yousefian Barfeh, Eduardo Mendoza, and Vladimir Mariano. Multiple moving objects monitoring in robot vision. In 4th IEEE International Conference on Engineering Technologies and Applied Sciences (ICETAS-2017), Bahrain, 29 Nov 1 Dec 2017.
- [131] Rick Jason G. Obrero and Iris Thiele C. Isip-Tan. Automated sentiment analysis of commentaries in a health care professional (hcp) moderated page in facebook. In 3rd HealthXPH Healthcare and Social Media Summit, Marco Polo Hotel, Cebu City, 25 April 2017.
- [132] J.P. Pabico. Human-borg dynamics during a cybernetic alien invasion. In 2017 Mathematical Society of the Philippines-CALABARZON Annual Regional Convention (MSPC 2017), First Asia Institute of Technology and Humanities, Tanauan City, Batangas, 23 September 2017.
- [133] J.P. Pabico and R.F. Cudal. Veterinary information technology: A new subfield for the modern veterinarians. In 84th Philippine Veterinary Medical Association Scientific Conference and Convention (PVMA 2017), Baguio Golf and Country Club, Baguio City, 21-24 February 2017.
- [134] Zenith O. Arnejo, Vladimir Y. Mariano, Nathaniel C. Bantayan, and Jaderick P. Pabico. Automated measurement of coconut tree encroachment

- in mt. makiling, southern luzon, philippines using image analysis of aerial images and artificial neural networks. In *Integrated Natural Resources and Environment Management (INREM 2017)*, Manila, 21-22 February 2017. (Note: This submission was withdrawn jpp).
- [135] Roselyn S. Gabud, Riza Batista-Navarro, Vladimir Mariano, Eduardo Mendoza, and Sandra Yap. Literature mining on dipterocarps: Towards better informed regeneration and reforestation in luzon, philippines. In INREM 2017, Manila, 21-22 February 2017.
- [136] Guia Carmella Lara, Joseph Anthony Hermocilla, and Danilo Mercado. Exploring rssi for uav-to-gcs distance estimation. In 15th National Conference on IT Education (NCITE 2017), Leyte Normal University, Tacloban, Leyte, 19-21 October 2017.
- [137] Lei Kristoffer Lactuan, Danilo Mercado, and Jaime Samaniego. Labgis: A real estate property geographical information system (gis) for local government units. In 15th National Conference on IT Education (NCITE 2017), Leyte Normal University, Tacloban, Leyte, 19-21 October 2017. (awarded best paper in Information Systems track).
- [138] Val Randolf Madrid, Maricor Soriano, and Eliezer Albacea. Comparing texture granulometry and multiscale uniform local binary patterns in classifying coral benthic regions from mosaic images. In 15th National Conference on IT Education (NCITE 2017), Leyte Normal University, Tacloban, Leyte, 19-21 October 2017.
- [139] Katrina Joy Abriol-Santos, Czarjohn Demafeliz, and Juan Miguel Carlos Abriol-Santos. Integrator: A centralized help desk system for inquiries on student services in a state university. In 15th National Conference on IT Education (NCITE 2017), Leyte Normal University, Tacloban, Leyte, 19-21 October 2017.
- [140] Donald A. Luna, Damasa B. Magcale-Macandog, and Jaderick P. Pabico. Classifying spatio-pixel data using pipelined binary neural networks. In Philippine National LiDAR Conference 2017 (PNLC 2017), Cebu Waterfront Hotel, Lahug, Cebu City, 18-20 January 2017.
- [141] Val Randolf Madrid, Maricor Soriano, and Eliezer Albacea. Developing image analysis tools for benthic classification of coral reef mosaic imagery. In PCSC 2017, pages 267–276, University of San Carlos, Talamban Campus, Cebu City, 16-18 March 2017.
- [142] Vincent Paul Carpio, Katrina Joy Abriol-Santos, and Joseph Anthony Hermocilla. Skylab: An extensible workflow web application for hpc on the cloud. In PCSC 2017, pages 143–148, University of San Carlos, Talamban Campus, Cebu City, 16-18 March 2017.

- [143] Maria Art Antonette Clariño and Eliezer Albacea. Exploring mathematical modeling towards l-system based model for leaf vein development. In PCSC 2017, pages 277–282, University of San Carlos, Talamban Campus, Cebu City, 16-18 March 2017.
- [144] Maureen Lyndel Lauron and Jaderick Pabico. Profiling waitlisted incoming students for future delinquency with an ensemble of statistical machine learning algorithms. In 18th National Student-Faculty Conference on the Statistical Sciences, UPLB, 16 October 2017.
- [145] Jabez Joshua M. Flores, Rick Jason Obrero, Luisa A. Gelisan, Edward Allan Foronda, and Rikki Lee Mendiola. Creating virtual corridors: Social network discovery and landscape patch connectivity of permaculture projects and initiatives on facebook. *International Journal on Open and Distance e-Learning (IJODeL)*, 3(2), December 2017.
- [146] Maria Art Antonette D. Clarino. Speech emotion recognition: Features, techniques, and evaluation. *Philippine Computing Journal Dedicated Issue on Natural Language Processing*, XII(1):1–7, August 2017.
- [147] Soon Hau Chua, Toni-Jan Keith Palma Monserrat, Dongwook Yoon, Juho Kim, and Shengdong Zhao. Korero: Facilitating complex referencing of visual materials in asynchronous discussion interface. Proceedings of the ACM on Human-Computer Interaction, 1, 2017.
- [148] Perico Dan B. Dionisio and Katrina Joy M. Abriol-Santos. Analysis of coffee bean using digital image processing. In SFRC, CAS, UPLB, 20 November, 2017.
- [149] Christopher Claude S. Templado and Jaime M. Samaniego. Multi-hop messaging using android wi-fi direct. In SFRC, CAS, UPLB, 20 November, 2017.
- [150] Zenith O. Arnejo, Nathaniel C. Bantayan, and Jaderick P. Pabico. Segmentation of coconut tree regions in forest aerial image of mt. makiling. In SFRC, CAS, UPLB, 20 November, 2017.
- [151] Johaira Mae T. Arriola and Jaderick P. Pabico. Multi-agent simulation of pursuit-evasion in dynamic graphs. In SFRC, CAS, UPLB, 20 November, 2017.
- [152] Ashlyn Kim D. Balangcod and Jaderick P. Pabico. Automated identification of plant species using leaf venations. In SFRC, CAS, UPLB, 20 November, 2017.
- [153] Jaderick P. Pabico. Ang epidemyolohiya ng aswang: Mga modelong matematikal at computer simulation. In *SFRC*, *CAS*, *UPLB*, 20 November, 2017.

- [154] Jenzhel R. Sanchez, Lailanie R. Danila, and Florence R. Danila. Semi-automated counting of plasmodesmata on a leaf surface using image processing. In *SFRC*, *CAS*, *UPLB*, 20 November, 2017.
- [155] Emmanuel O. Afriyie, Concepcion L. Khan, and Hildie M. Nacorda. Support vector machine for seagrass and benthic bottom types classification using high resolution coastal digital aerial images. Far East Journal of Electronics and Communication, 2:69–76, September 2016. (SCOPUS indexed, International Publication Award).
- [156] Ivan Marc H. Escamos, Allen Roy C. Roberto, Joseph Anthony C. Hermocilla, Miyah D. Queliste, Edwin R. Abucay, and Gillian Katherine L. Inciong. Bertud: Building footprint extraction and regularization in lidar datasets through utilization of a distributed system. In 37th Asian Conference of Remote Sensing (ACRS 2016), Colombo, Sri Lanka, October 17-21 2016.
- [157] Ralf Jangit and Jaime M. Samaniego. Performance evaluation of ensemble learning methods using tree-based component classifiers on bioacoustic datasets. In NCITE 2016, pages 20–22, DMC College Foundation, Dipolog City, Zamboanga del Norte, October 2016.
- [158] Mark Carlo Dela Torre, Katrina Joy Abriol-Santos, and Jaderick Pabico. Measuring the maximum functional arm reach through digital dynamic anthropometry. In NCITE 2016, pages 20–22, DMC College Foundation, Dipolog City, Zamboanga del Norte, October 2016.
- [159] Joseph Anthony Hermocilla and Eliezer Albacea. Osv-mpi: A prototype mpi implementation for the osv cloud operating system. In NCITE 2016, pages 20–22, DMC College Foundation, Dipolog City, Zamboanga del Norte, October 2016.
- [160] Maria Art Antonette D. Clariño. Exploration of simulation tools and l-system based approaches to plant modelling: A journey towards modelling vein development (abstract). In *International conference on "Mathematical and Computational Modeling of Biological Systems"*, University of the Philippines Diliman and De La Salle University, November 30-December 2 2016.
- [161] Monina Gazelle Charina B. Carandang and Concepcion L. Khan. Philippine agricultural decision support based on real-time weather monitoring. In 9th UPLB CAS SFRC 2016, UPLB, November 2016.
- [162] Maria Art Antonette D. Clariño, Nina M. Cadiz, and Eliezer A. Albacea. An l-system approach to modeling auxin-driven vein development (best paper). In 9th UPLB CAS SFRC 2016, UPLB, November 2016.
- [163] Ariel B. Doria, Kervin Levi Decena, and Toni-Jan Keith P. Monserrat. Video searching using sketches. In 9th UPLB CAS SFRC 2016, UPLB, November 2016.

- [164] Maureen Lyndel C. Lauron, Myrna G. Carandang, and Jaderick P. Pabico. Automatic profiling of waitlisted students for future delinquency: Experiences, problems, and solutions. In 9th UPLB CAS SFRC 2016, UPLB, November 2016.
- [165] Mark Anthony R. Magno, Bambi Erika C. Rivera, Chester R. Emia, Alyssa Kaye S. Mojar, and Jaderick P. Pabico. Mobile device for collecting farm and field data: User interface design and device size preference. In 9th UPLB CAS SFRC 2016, UPLB, November 2016.
- [166] Clinton E. Poserio and Jaderick P. Pabico. A system for automatic classification and spatio-temporal visualization of population sentiments inferred from twitter analysis. In 9th UPLB CAS SFRC 2016, UPLB, November 2016.
- [167] Jaderick P. Pabico. Modeling and game-theoretic solution to the "pedestrian waltz" social phenomenon. In 9th UPLB CAS SFRC 2016, UPLB, November 2016.
- [168] Roinand B. Aguila and Concepcion L. Khan. Spid: Smarter pest identification using digital image processing and ontology-based approach. In 9th UPLB CAS SFRC 2016, UPLB, November 2016.
- [169] E.N.A. Tolorio, C.N.B. Arkaina, K.J.H. Magno, and J.P. Pabico. Design of an e-commerce system for breeder swine and boar semen. In 9th UPLB CAS SFRC 2016, UPLB, November 2016. (poster).
- [170] Maureen Lyndel C. Lauron and Jaderick P. Pabico. Improved sampling techniques for learning an imbalanced data set. In *PCSC 2016*, pages 16– 18, Puerto Princesa City, Palawan, March 2016.
- [171] Val Randolf M. Madrid. Exploring the utility of using formal concept analysis for tracking coral reef community structure evolution. In *PCSC* 2016, pages 16–18, Puerto Princesa City, Palawan, March 2016.
- [172] Iman Rasekh and Eliezer A. Albacea. A new xml-based competitive architecture for search engines. In PCSC 2016, pages 16–18, Puerto Princesa City, Palawan, March 2016.
- [173] Jaderick P. Pabico, Marcelo V. Rivera, and Nestor R. Valdez. Experiences in collaborative implementation of a multi-user interactive virtual learning world. In *PSUCCESS 2016*, pages 22–24, University of Northern Philippines, Vigan City, Ilocos Sur, February 2016.
- [174] Val Randolf M. Madrid, Lei Kristoffer R. Lactuan, and Jonel M. Corral. Exploring utility of formal concept analysis approach to coral reef assessment. *Journal of Environmental Science and Management*, (Special Issue No. 2):47–57, December 2016. (SCOPUS indexed, International Publication Award, confirmed 3 July 2017).

- [175] Fermin Roberto Lapitan, Riza Theresa Batista-Navarro, and Eliezer Albacea. Crowdsourcing-based annotation of emotions in filipino and english tweets. In *Proceedings of the 6th Workshop on South and Southeast Asian Natural Language Processing (WSSANLP2016)*, pages 74–82, Osaka, Japan, December 2016.
- [176] Maria Art Antonette D. Clariño and Mark M. Alfonso. Evaluation of speech emotion recognition based on support vector machines with mixture model super vectors. *Journal of Sciences, Technology and Arts Re*search, 2:25–34, August 2016.
- [177] Michael Angeles, Nathaniel Laxina, Maria Art Antonette D. Clariño, and Rizza DC. Mercado. Automatic text summarization using chainrank: A hybrid technique. *Philippine Computing Journal Dedicated Issue on Natural Language Processing*, XI(1):24–30, August 2016.
- [178] Charlene Mae B. Arkaina, Evan Norman A. Tolorio, Katrina Joy H. Magno, and Jaderick P. Pabico. A shift from traditional to electronic commerce: Enhancing the efficiency of live breeder swine commerce through web technology. In PSAE 2016, pages 24–30, Teatro Ilocandia, Mariano Marcos State University, City of Batac, Ilocos Norte, April 2016.
- [179] Evan Norman A. Tolorio, Charlene Mae B. Arkaina, Katrina Joy H. Magno, and Jaderick P. Pabico. Utilizing ict in facilitating fast and secure communication in live swine commerce. In PSAE 2016, pages 24–30, Teatro Ilocandia, Mariano Marcos State University, City of Batac, Ilocos Norte, April 2016.
- [180] Jaderick P. Pabico and Renato S.A. Vega. Re-engineering ict-enabled protocols for traceable pork. In PSAE 2016, pages 24–30, Teatro Ilocandia, Mariano Marcos State University, City of Batac, Ilocos Norte, April 2016.
- [181] Michael Angeles, Nathaniel Laxina, Maria Art Antonette D. Clariño, and Rizza DC. Mercado. Automatic text summarization using chainrank: A hybrid technique. In 12th National Natural Language Processing Research Symposium (12NNLPRS), pages 22–23, Silliman University, Dumaguete City, April 2016.
- [182] Jefferson Ferrera and Katrina Joy H. Magno. Sociagraph: A keyword extractor and sentiment analyser using support vector machines. In 12th National Natural Language Processing Research Symposium (12NNLPRS), pages 22–23, Silliman University, Dumaguete City, April 2016.
- [183] M.A.A.D. Clariño, E.A. Albacea, E.R. Mendoza, X.-G. Zhu, N.M. Cadiz, and V.Y. Mariano. Exploring simulation environments with 1-system based models towards simulation of leaf vein development. In First International DOST-SEI ASTHRDP-NSC Scholars' Conference, Philippine International Convention Center (PICC), 7-8 April 2016.

- [184] M.L.C. Lauron and J.P. Pabico. Ensemble learning using selected algorithms for solutions of classification problems in data mining. In *First International DOST-SEI ASTHRDP-NSC Scholars' Conference*, Philippine International Convention Center (PICC), 7-8 April 2016.
- [185] Emmanuel O. Afriyie, Concepcion L. Khan, and Hildie M. Nacorda. Support vector machine for seagrass and benthic bottom types classification using high resolution coastal digital aerial images. In 2016 International Conference on Advanced Computing, Communication and Information Sciences (ICACCI-2016), University of San Carlos-Banilad, Cebu City, 27-29 May 2016.
- [186] Caroline Natalie M. Peralta, Jaderick P. Pabico, and Vladimir Y. Mariano. Modeling shapes using uniform cubic b-splines for rice seed image analysis. In 2016 IEEE Sixth International Conference on Communications and Electronics (ICCE), pages 326–331, Ha Long, Vietnam, 27-29 July 2016.
- [187] Venus D. Retuya and Concepcion L. Khan. Project monitoring and evaluation system for setup. *International Journal of Computer Science and Electronics Engineering (IJCSEE)*, 4(2), 2016.
- [188] Rozano S. Maniaol and Danilo J. Mercado. An analysis of network activity in a public university. *Philippine Computing Journal*, 11(2):11–18, 2016. (released Dec 2017 only).