Curriculum Vitae
Department of Agricultural Engineering
Universitas Brawiiava

Name	***Yusuf Hendrawan STP., M.App.Life Sc., Ph.D***		
Position	*Teaching area: Bioinstrumentation, control, and systems engineering* *Associate Prof. in Bachelor of Agricultural Engineering Study Programme*		
Academic career	***Initial academic appointment***	*Agricultural Engineering Department, Universitas Brawijaya*	*2004*
	Doctoral degree	*Applied Life Sciences, Osaka Prefecture University, Japan*	*2012*
	Master degree	*Applied Life Sciences, Osaka Prefecture University, Japan*	*2009*
	Undergraduate degree	*Agricultural Engineering, Institut Pertanian Bogor, Indonesia*	*2003*
Employment	***Lecturer***	*Agricultural Engineering Department, Universitas Brawijaya*	*2004-Now*
	Department secretary	*Agricultural Engineering Department, Universitas Brawijaya*	*2013-2015*
	Vice Dean of Student Affair	*Faculty of Agricultural Technology, Universitas Brawijaya*	*2015-2023*
Research and development projects over the last 5 years	- *The Application of Artificial Intelligence in Antioxidant Modeling of "African Leaves" Using Machine Vision And Fluorescence, 2020, 50M IDR* - *Development of a Smart Plant Factory by Applying Plant Growth and Production-Enhancing Technology using Sound Exposure (Sonic Bloom), 2019, 50M IDR* - *Development of cassava dryer using machine vision (Batch 1), 2016, 75M IDR* - *Developmet of cassava dryer using machine vision (Batch 2), 2017, 75M IDR*		
Industry collaborations over the last 5 years			
Patents and proprietary rights	- *Intelligent lighting system in plant factory* - *Intelligent irrigation system in plant factory* - *Purity, Phenol, and pH detection of Kopi Luwak using machine vision* - *Coconut maturity detection using machine vision* - *Plant acoustic frequency technology (PAFT) using Gamelan music* - *Cassava chips dryer using machine vision* - *Nitrogen detection in spinach using machine vision*		
Important publications over the last 5 years	*Selected recent publications from a total of approx. 15 papers:* - ***Hendrawan, Y.**, Diyaratnasari, A., Sandra, Rachmawati, M., Wibisono, Y. 2020. Purification of sugarcane juice (Saccharum officinarum L.) using chitosan membrane with dead-end flow system. International Journal on Advance Science, Engineering, and Information Technology. 10 (6), 2367-2377.*		

	- ***Hendrawan, Y.**, Putri, N.F., Hawa, L.C., Rachmawati, M., Argo, B.D. 2020. Modelling and optimization of alginate-chitosan concentration towards tensile strength pervaporation membrane based polyehersulfone-biopolymer by using response surface methodology. International Journal onAdvance Science, Engineering, and Information Technology. 10 (4), 1654-1661.* - ***Hendrawan, Y.**, Putra, A.H., Sumarlan, S.H., Dhjoyowasito, G. 2020. Plant acoustic frequency technology control system to increase vegetative growth i red-lettuce. TELKOMNIKA. 18(4), 2042-2052.* - ***Hendrawan, Y.**, Rizky, A., Susilo, B., Prasetyo, J., Damayanti, R. 2020. The effect of javanese gamelan music on the growth of chinese broccoli. PERTANIKA Journal of Science & Technology. 28(1), 69-90.* - ***Hendrawan, Y.**, Widyaningtyas, S., Sucipto.2019. Computer vision for purity, phenol, and pH detection of Luwak Coffee green bean. TELKOMNIKA. 17(6), 3073-3085.* - ***Hendrawan, Y.**, Amini, A., Maharani, D.M., Sandra. 2019. Intelligent non-invasive sensing method in identifying coconut (coco nucifera var. Ebunea) ripeness using computer visionand artificial neural network. PERTANIKA Journal of Science & Technology. 27(3), 1317-1339.* - ***Hendrawan, Y.**, Sabrinauly, Hawa, L.C., Rachmawati, M., Argo, B.D. 2019. Analysis of the phenol and flavanoid content from basil leaves (ocinum americanum L) wxtract using pulsed electric field (PEF) pre-treatment. Agricultural Engineering International: CIGR Journal. 21(2), 149-158.* - ***Hendrawan, Y.**, Sakti, I.M., Wibisono, Y., Rachmawati, M., Sandra. 2018. Image analysis using color co-occurrence matrx textural features for predicting nitrogen content in spinach. TELKOMNIKA. 16(6), 2712-2724.* - ***Hendrawan, Y.**, Al Riza, D.F. 2016. Machine vision optimization using nature-inspired algorithms to model sunagoke moss water status. International Journal on Advance Science, Engineering, and Information Technology. 6(1), 45-57.*
Activities in specialist bodies over the last 5 years	-