

MECHANICAL ENGINEERING DEPARTMENT
LIST OF SOME RECENT CONFERENCES AND JOURNAL

Year	Faculty	Title	ConferenceS	Category
2017	Ivan Henderson V. Gue; Aristotle T. Ubando; Kyle Darryl T. Aguilar; Robby B. Manrique; Joel L. Cuello; Alvin B. Culaba	Linear programming modelling of an integrated sugarcane microalgal biofuel plant	2017 9TH IEEE HNICEM	Conference
2017	Robby Manrique; Aristotle T. Ubando; Alvin B. Culaba; Al Rey C. Villagracia; Melanie Y. David; Nelson B. Arboleda; Hideaki Kasai	Co2 transport from flue gas emission across the lipid membrane for microalgae biofixation	2017 9TH IEEE HNICEM	Conference
2017	Jimwell L. Soliman; Niño Rigo Emil G. Lim; John Patrick D. Mercado; Muhaimin Rex C. Lagurin; Charles B. Felix; Aristotle T. Ubando; Alvin B. Culaba	Effects of temperature and pressure on the vacuum drying characteristics of red seaweed kappaphycus alvarezii	2017 9TH IEEE HNICEM	Conference
2017	John Isaac Enriquez; Al Rey Villagracia; Joaquin Lorenzo Moreno; Nelson Arboleda; Melanie David; Aristotle Ubando; Alvin Culaba; Joel Cuello	Effect of structural and dynamical properties of lipid bilayer on water permeation studied using course-grained molecular dynamics simulation	2017 9TH IEEE HNICEM	Conference

2017	John Isaac Enriquez; Al Rey Villagracia; Joaquin Lorenzo Moreno; Nelson Arboleda; Melanie David; Aristotle Ubando; Hui Lin Ong; Alvin Culaba; Joel Cuello	Course-grained molecular dynamics investigation on the effects of uniform electric field on DPPC lipid bilayer: With and without vacuum space	2017 9TH IEEE HNICEM	Conference
2017	Antonio Rafael Mina; Byron Tecson; Diane Veronica Virtucio; Charles Felix; Aristotle Ubando; Cynthia Madrazo; Renann Baldovino; Alvin Culaba; Nieves Toledo; Caridad Jimenez; Soledad Garibay	Optimization of microwave drying of microalgae nannochloropsis sp. for biofuel production	2017 9TH IEEE HNICEM	Conference
2017	Charles Felix; Aristotle Ubando; Cynthia Madrazo; Alvin Culaba; Alchris Woo Go; Sylviana Sutanto; Yi-Hsu Ju; Phuong Lan Tran-Nguyen; Jo-Shu Chang	Uncatalyzed direct biodiesel production from wet microalgae under subcritical conditions	2017 9TH IEEE HNICEM	Conference
2017	Kyle Darryl T. Aguilar; Aristotle T. Ubando; Alvin B. Culaba; Kathleen B. Aviso; Raymond Girard R. Tan; Anthony Shun Fung Chiu	Carbon dioxide reduction incentive for eco-industrial parks using bilevel fuzzy programming	2017 9TH IEEE HNICEM	Conference
2017	Glenn Matthew K. Chiu; Kathleen B. Aviso; Aristotle T. Ubando; Raymond R. Tan	Fuzzy linear programming model for the optimal design of a combined cooling, heating, and power plant	2017 9TH IEEE HNICEM	Conference
2017	Kyle Darryl T. Aguilar; Aristotle T. Ubando; Isidro Antonio V. Marfori; Alvin B. Culaba; Jonathan R. Dungca; Michael Angelo B. Promentilla; Kathleen B. Aviso; Raymond Girard R. Tan	Synthesis and optimal design of a microhydro-based polygeneration system using fuzzy linear programming with Pareto frontier	2017 9TH IEEE HNICEM	Conference

2017	Niño Rigo Emil G. Lim; Jimwell L. Soliman; John Patrick D. Mercado; Charles B. Felix; Aristotle T. Ubando; Alvin B. Culaba	Seaweed dryer design criteria assessment using analytic hierarchy process	2017 9TH IEEE HNICEM	Conference
2017	Aristotle T. Ubando; Jeremias A. Gonzaga; Ivan Henderson V. Gue; Jose Bienvenido M. Biona	A computational architecture for evaluation of the fuel consumption for importation of products	2017 9TH IEEE HNICEM	Conference
2017	Lemuel F. Banal; Laurence A. Gan Lim; Aristotle T. Ubando; Arvin H. Fernando; Gerardo L. Augusto	Aircraft configuration development through surrogate-based robust optimization using a real-coded fuzzy-genetic algorithm	2017 9TH IEEE HNICEM	Conference
2017	Robert Martin C. Santiago; Anton Louise De Ocampo; Aristotle T. Ubando; Argel A. Bandala; Elmer P. Dadios	Path planning for mobile robots using genetic algorithm and probabilistic roadmap	2017 9TH IEEE HNICEM	Conference
2017	Engr. Arvin H. Fernando; Argel A. Bandala; Laurence A. Gan Lim; Archie B. Maglaya; Nadine Ledesma; Ryan Rhay Vicerra; Engr. Jeremias Gonzaga	Design of a fuzzy logic controller for a vent fan and growlight in a tomato growth chamber	2017 9TH IEEE HNICEM	Conference
2017	Aristotle T. Ubando; Ivan Henderson V. Gue; Alvin B. Culaba; Joel L. Cuello	A comparative assessment for algal biodiesel production in the Philippines	2017 9TH IEEE HNICEM	Conference
2017	Maglaya AB, Dollera	Xavier Solar Furnace for Recycled Plastic Lumber	65th PSME SMX Convention Pasay Oct 18-21 2017	Conference
2017	Maglaya AB, Sharma, Bhusan	Absorption Chiller 1 deg	65th PSME SMX Convention Pasay Oct 18-21 2017	Conference

2017	Maglaya AB, Olaisman, Lester	Design Simulation of Dual Rotor Horizontal Axis Wind Turbine Connected in Series to increase wind power conversion efficiency	65th PSME SMX Convention Pasay Oct 18-21 2017	Conference
2017	GanLim LA, Kalaw ME, Maglaya AB	Fabrication and Characterization of Graphene Nanomaterial for Thermoelectric Power Application	65th PSME SMX Convention Pasay Oct 18-21 2017	Conference
2017	Fernando AH, Maglaya AB, Gan Lim LA	Design and Development of a Prototype Plant Growth Chamber	65th PSME SMX Convention Pasay Oct 18-21 2017	Conference
2016	Fernando, A.H., Maglaya, A.B., Ubando, A.T.	Optimization of an algae ball mill grinder using artificial neural network	Region 10 Conference (TENCON), 2016 IEEE, 3752-3756	Conference
2016	Cuevas, J., Chua, A., Sybingco, E., Bakar, E.A.	Identification of river hydromorphological features using Viola-Jones Algorithm	Region 10 Conference (TENCON), 2016 IEEE, 2300-2306	Conference
2016	Augusto, G.L., Culaba, A.B, Gan Lim, L.A.	Identification of Design Criteria for Converter Cooling System of Permanent Magnet Direct-Drive Wind Turbine Generator	ASME 2016 International Mechanical Engineering Congress and Exposition	Conference
2016	Billones, R.K.C., Bandala, A.A., Sybingco, E., Gan Lim, L.A., Dadios, E.P.	Intelligent system architecture for a vision-based contactless apprehension of traffic violations	Region 10 Conference (TENCON), 2016 IEEE, 1871-1874	Conference
2016	AH Fernando, AB Maglaya, AT Ubando	A fuzzy linear programming enterprise input-output model for optimal crisis operations in industrial complexes	Region 10 Conference (TENCON), 2016 IEEE, 3752-3756	Conference
2016	AT Ubando, IHV Gue, KDT Aguilar	Analytical hierarchy process with artificial neural network: A case study of algal biofuel production impact prioritization in the Philippines	Region 10 Conference (TENCON), 2016 IEEE, 961-965	Conference

2016	AT Ubando, KDT Aguilar	Fuzzy quadratic programming model for the optimal design of an algal bioenergy park under optimal price markdown percentage	Region 10 Conference (TENCON), 2016 IEEE, 936-941	Conference
2016	AP Mayol, AB Culaba, KB Aviso, DKS Ng, RR Tan, AT Ubando	Fuzzy linear programming model for the optimal design of a trigeneration plant with product price variability	Region 10 Conference (TENCON), 2016 IEEE, 3200-3205	Conference
2016	KDT Aguilar, AT Ubando	Application of a Fuzzy Mathematical Programming Approach with in the Optimal Design of an Algal Bioenergy Park with Product Price Variability	DLSU Research Congress 2016	Conference
2016	R Abad, AM FILLONE, JBMM BIONA	Investigating the relationship between housing affordability and mobility in Metro Manila, Philippines	23rd TSSP Conference	Conference
2016	P Sok, G Augusto, A Ubando, A Culaba, A Maglaya, L Gan Lim	Effects of Swirling Inlet Flow on the Performance of Axial Flow Turbine Draft Tube Model at Different Reynolds Numbers using ANSYS Fluent	4th AUN/SEED-Net Regional Conference on Energy Engineering, Phnom Penh, Cambodia	Conference
2015	Fernando, A.H., Marfori, I.A.V., Maglaya, A.B.	A comparative study between artificial neural network and linear regression for optimizing a hinged blade cross axis turbine	2015 IEEE HNICEM Conference	Conference
2015	Augusto, G.L., Culaba, A.B., Maglaya, A.B.	Identification of design criteria for district cooling distribution network with ice thermal energy storage system	Energy Procedia 79, 233-238	Conference

2015	Muflikhun,G.B., Santos, G.N.C., Chua, A.Y.	Synthesis and Characterization of Silver-Titanium Nanocomposite via Horizontal Vapor Phase Growth (HVPG) Technique	DLSU Research Congress 2015	Conference
2015	Kalaw, M.E., Sumabat, A.K., Nguyen, H.T., Dungca, J., Bacani, F., Culaba, A., Gallardo, S., Promentilla, M.A.	Using Definitive Screening Design to Assess Factor Significance on the Compressive Strength and Volumetric Weight of a Ternary Blend Geopolymer	Proceedings of the DLSU Research Congress	Conference
2015	dela Cruz, A., Impreso, J.D., Yao, G., Kalaw, M.E.L.	Simulation of the Thermal Performance of a Novel Green Building Insulation Material	DLSU Research Congress 2015	Conference
2015	Sumabat, A.K.R., Manalac, A.J., Nguyen, H.T., Kalaw, M.E., Tan. R.R., Promentilla, M.A.B.	Optimizing geopolymer-based material for industrial application with analytic hierarchy process and multi-response surface analysis	Chem. Eng. Trans 45, 1147-1152	Conference
2015	Billones, R.K.C., Dadios, E.P., Cabatuan, M.K., Gan Lim, L.A., Galvez, R.L., Carandang, J.S., Punzalan, E.C., Enriquez, M.L., Erasga, D., Ples, M., Teruel, R., Sison-Gareza, B., Carandang, M.E., Carandang, J.	Speech-controlled human-computer interface for audio-visual breast self-examination guidance system	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2015 International Conference on	Conference
2015	Augusto, G.L., Culaba, A.B., Gan Lim, L.A.	Design of yaw brake system for horizontal axis wind turbine generator	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2015	Conference

			International Conference on	
2015	Jose, J.A.C., Cabatuan, M.K., Billones, R.K., Dadios, E.P., Gan Lim, L.A.	Monocular depth level estimation for breast self-examination (BSE) using RGBD BSE dataset	TENCON 2015-2015 IEEE Region 10 Conference, 1-6	Conference
2015	AT Ubando, MAB Promentilla, AB Culaba, RR Tan	Application of spatial analytic hierarchy process in the selection of algal cultivation site for biofuel production: A case study in the Philippines	Humanitarian Technology Conference (R10-HTC), 2015 IEEE Region 10, 1-6	Conference
2015	JBMM Biona, JA Gonzaga, AT Ubando, HC Tan	A comparative life cycle analysis of plastic and paper packaging bags in the Philippines	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2015 International Conference on	Conference
2015	AT Ubando, IHV Gue, AP Mayol, CB Felix, CJ Ronquillo, NA Toledo	Life cycle validation study of algal biofuels in Philippines via CML impact assessment	Humanitarian Technology Conference (R10-HTC), 2015 IEEE Region 10, 1-5	Conference

2015	AP Mayol, A Ubando, JB Biona, HL Ong, R Espiritu, H Lee, R Tumlos	Investigation of the drying characteristics of microalgae using microwave irradiation	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2015 International Conference on	Conference
2015	LF Banal, AT Ubando	Fuzzy programming approach to UAV preliminary sizing	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2015 International Conference on	Conference
2015	IHV Gue, AP Mayol, C Felix, AT Ubando	Application of ant colony optimization on transport route of algal biofuels in the Philippines	Humanitarian Technology Conference (R10-HTC), 2015 IEEE Region 10, 1-6	Conference
2015	AJ Mañalac, AT Ubando	Optimization model in microalgae based biodiesel supply chain: A case study in the Philippines	Humanitarian Technology Conference (R10-HTC), 2015 IEEE Region 10, 1-6	Conference
2015	MF Benjamin, AT Ubando, LF Razon, RR Tan	Analyzing the Disruption Resilience of Microalgal Multi-functional Bioenergy Systems using Dynamic Inoperability Input-output Modeling	Chemical Engineering Transactions 45, 1579-1584	Conference
2015	KB Aviso, ASF Chiu, KDS Yu, MAB Promentilla, LF Razon, AT Ubando	P-graph for Optimising Industrial Symbiotic Networks	Chemical Engineering Transactions 45, 1345-1349	Conference

2015	KB Aviso, CL Sy, AT Ubando, RR Tan	Target-Oriented Robust Optimization of Polygeneration Systems	Chemical Engineering Transactions 45, 199-2014	Conference
2015	AT Ubando, CB Felix, MAB Promentilla, AB Culaba	Strategic site selection of microalgae industry in the Philippines using analytic hierarchy process	Chemical Engineering Transactions 45, 325-330	Conference
2015	AT Ubando, AB Culaba, KB Aviso, RR Tan, JL Cuello, DKS Ng,	Fuzzy Mathematical Programming Approach in the Optimal Design of an Algal Bioenergy Park	Chemical Engineering Transactions 45, 355-360	Conference
2015	E ABAYA, K VERGEL, R SIGUA, E QUIROS, JB BIONA	Instantaneous Fuel Consumption Models of Light Duty Vehicles and a Case Study on the Fuel Consumption at Different Traffic Conditions in Metro Manila Using Shepard's Interpolation Method	Proceedings of the Eastern Asia Society for Transportation Studies 10	Conference
2015	GL Augusto, AB Culaba	Identification of Design Criteria for Chiller Plant Distribution Network in Alabang Town Center, Philippines	Energy Procedia 79, 239-244	Conference
2015	JIG Enriquez, RR Al Rey Villagracia, AB Culaba	A dynamic Leontief model with stochastic extensions for sustainable Jatropha curcas biofuel supply chain	DLSU Research Congress 2015	Conference
2015	G Augusto, A Culaba, L Gan Lim	Wind Resource Assessment for Turbine Class Identification in Santa Vitoria do Palmar, Brazil	3rd AUN/SEED-NET Regional Conference on Energy Engineering	Conference
2015	G Augusto, A Culaba, L Gan Lim, A Maglaya, P Sok	Pressure Recovery of Axial Flow Turbine Draft Tube with Inlet Swirl	3rd AUN/SEED-NET Regional Conference on Energy Engineering	Conference
2015	NS Lopez, BK Mara, BC Mercado, LA Mercado, JM Pascual	Characterization of the aerodynamic effects of surface modification on Magnus rotor blades using ANSYS CFX	2015 PAASE Conference	Conference

2015	Lopez N.S.A., Mara B.K.G., Mercado B.C.C., Mercado L.A.B., Pascual J.M.G.	Characterisation of the Effects of Surface Modifications to Flow Across Rotating Cylinders Using Ansys CFD Modelling	Chemical Engineering Transactions 45, 1129-1134	Conference
2015	RRP Vicerra, KKA David, KBC Simbulan, CMD Santos, AA Bandala	Multiple Level Fuzzy Logic-based Artificial Intelligence for Multi-Agent Cooperative Robot Platform	Asia Pacific Industrial Engineering and Management System	Conference
2015	KKA David, RRP Vicerra, AH Fernando, AA Bandala, EP Dadios	A low-cost hardware design of a 6-thruster unmanned underwater vehicle (UUV)		Conference
2015	RRP Vicerra, AH Fernando, EB Daculan	Cost Optimization of a Goal Defending Robot in a Multi-Agent Robot Soccer Game		Conference
2014	JAC Jose, MK Cabatuan, EP Dadios, LAG Lim	Depth estimation in monocular Breast Self-Examination image sequence using optical flow	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2014 International Conference on	Conference
2014	RAA Masilang, MK Cabatuan, EP Dadios, LG Lim	Computer-aided BSE torso tracking algorithm using neural networks, contours, and edge features	TENCON 2014-2014 IEEE Region 10 Conference, 1-5	Conference
2014	JAC Jose, MK Cabatuan, EP Dadios, LAG Lim	Stroke position classification in breast self-examination using parallel neural network and wavelet transform	TENCON 2014-2014 IEEE Region 10 Conference, 1-5	Conference

2014	MRD Ducut, J Corpuz, NB Arboleda, MY David, RB Manrique, AT Ubando	Molecular dynamics study on the effects of varying temperature and pressure on phosphatidylcholine lipids for microalgae drying	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2014 International Conference on	Conference
2014	AT Ubando, JL Cuello, AB Culaba, MM El-Halwagi, RR Tan	Multi-regional multi-objective optimization of an algal biofuel polygeneration supply chain with fuzzy mathematical programming	American Society of Mechanical Engineers (ASME) Digital Collection: ASME 2014 8th international conference on energy sustainability, Boston	Conference
2014	AT Ubando, JL Cuello, AB Culaba, MAB Promentilla, RR Tan	Multi-criterion evaluation of cultivation systems for sustainable algal biofuel production using analytic hierarchy process and Monte Carlo simulation	Energy Procedia 61, 389-392	Conference
2014	DJ Mariano, JBMM Biona, JA Gonzaga	Life cycle assessment of rice hull—Coal co-firing for portland cement clinker production	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2014 International Conference on	Conference
2014	JA Gonzaga, JBM Biona	Application of Energy Return on Investment (EROI) Analysis to Biogas Production	DLSU Research Congress 2014	Conference

2014	R Roleda, D Bombongan, RR Tan, L Roleda, A Culaba	Probing the Outliers: Predictors of Research Productivity at DLSU	DLSU Research Congress 2014	Conference
2014	BK Mara, BC Mercado, LA Mercado, JM Pascual, NS Lopez	Development and validation of a CFD model using ANSYS CFX for aerodynamics simulation of Magnus wind rotor blades	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2014 International Conference on	Conference
2014	BK Mara, BC Mercado, LA Mercado, JM Pascual, NS Lopez	Preliminary turbulence model validation for flow across rotating cylinders using ANSYS CFX	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2014 International Conference on	Conference
2014	JA Gonzaga, JMM Biona, BMC Omboy	Net energy analysis of Jatropha press-cake utilization	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2014 International Conference on	Conference
2013	Conducto, A., Cortes, A., Lopez, F., Sylim, S., Kalaw, M.E.L.	ASSESSMENT OF THE EFFECTIVENESS OF HEAT PIPES IN COOLING PHOTOVOLTAIC CELLS IN SOLAR CARS	DLSU Research Congress 2013	Conference

2013	KKA David, RR Vicerra, AA Bandala, LAG Lim, EP Dadios	Unmanned underwater vehicle navigation and collision avoidance using fuzzy logic	System Integration (SII), 2013 IEEE/SICE International Symposium on, 126-131	Conference
2013	M Eman, M Cabatuan, EP Dadios, LA Gan Lim	Detecting and tracking female breasts using neural network in real-time	TENCON 2013-2013 IEEE Region 10 Conference (31194), 1-4	Conference
2013	A Ubando, A Culaba, K Aviso, D Ng, R Tan	Fuzzy multi-objective approach for designing of biomass supply chain for polygeneration with triple footprint constraints	ASME 2013 International Mechanical Engineering Congress and Exposition 12	Conference
2013	AT Ubando, KB Aviso, AB Culaba, DKS Ng, RR Tan	FUZZY OPTIMAL DESIGN MODEL FOR POLYGENERATION PLANT WITH BIOCHAR PRODUCTION FOR CARBON SEQUESTRATION	DLSU Research Congress 2013	Conference
2013	G Augusto, A Culaba, R Tanhueco	Pipe sizing for district cooling distribution network	Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 2013 International Conference on	Conference
2012	Hilado, S.D.F., Dadios, E.P., Gan Lim, L.A., Sybingco, E., Marfori, I.V., Chua, A.Y.	Vision based pedestrian detection using Histogram of Oriented Gradients, Adaboost & Linear Support Vector Machines	TENCON 2012-2012 IEEE Region 10 Conference, 1-5	Conference
2012	SDF Hilado, EP Dadios, LA Gan Lim, E Sybingco, IV Marfori, AY Chua	Vision based pedestrian detection using Histogram of Oriented Gradients, Adaboost & Linear Support Vector Machines	TENCON 2012-2012 IEEE Region 10 Conference, 1-5	Conference

2012	LAG Lim, RNG Naguib, EP Dadios, JMC Avila	Implementation of GA-KSOM and ANFIS in the classification of colonic histopathological images	TENCON 2012-2012 IEEE Region 10 Conference, 1-5	Conference
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Year	Faculty	Title	Conference/Journal	Category
2017	Muflikhun, M.A., Castillon, G.B., Santos, G.N.C., Chua, A.Y.	Micro and Nano Silver-Graphene Composite Manufacturing via Horizontal Vapor Phase Growth (HVPG) Technique	Materials Science Forum 901, 3-7	Journal
2017	Muflikhun, G.B., Santos, G.N.C., Chua, A.Y.	Statistical Design Analysis of Silver-Titanium Dioxide Nanocomposite Materials Synthesized via Horizontal Vapor Phase Growth (HVPG)	Key Engineering Materials 735, 210-214	Journal
2017	Nakano, R.C.S., Vicerra, R.R.P., Gan Lim, L.A., Sybingco, E., Dadios, E.P., Bandala, A.A.	Utilization of the Physicomimetics Framework for Achieving Local, Decentralized, and Emergent Behavior in a Swarm of Quadrotor Unmanned Aerial Vehicles (QUAV)	Journal of advanced computational intelligence and intelligent informatics, 21, 2	Journal
2017	Maningo, J.M.Z., Vicerra, R.R.P., Gan Lim, L.A., Sybingco, E., Dadios, E.P., Bandala, A.A.	Smoothed Particle Hydrodynamics Approach to Aggregation of Quadrotor Unmanned Aerial Vehicle Swarm	Journal of advanced computational intelligence and intelligent informatics, 21, 2	Journal
2017	Faelden, G.E.U., Vicerra, R.R.P., Gan Lim, L.A., Sybingco, E., Dadios, E.P., Bandala, A.A.	Implementation of Swarm Social Foraging Behavior in Unmanned Aerial Vehicle (UAV) Quadrotor Swarm	Journal of advanced computational intelligence and intelligent informatics, 21, 2	Journal

2017	RI Lucas, MA Promentilla, A Ubando, RG Tan, K Aviso, KD Yu	An AHP-based evaluation method for teacher training workshop on information and communication technology	Evaluation and Program Planning 63, 93-100	Journal
2017	M Ahanchian, JBM Biona	Modeling rational, psychological, and social behavior toward diffusion of new technology using agent-based simulation: the case of the public utility jeepney (PUJ) fleet in Metro Manila	Adaptive Behavior, 1059712317716264	Journal
2016	Augusto, G.L., Culaba, A.B., Gan Lim, L.A., Maglaya, A.B.	Design Optimization of Rotor Lock Disc for Horizontal Axis Wind Turbine Generator	Applied Mechanics and Materials 842, 191-199	Journal
2016	Yambot, A., Casano, L., Mina, R., Yu, K., Chua, A.Y.	Automated Screw Type Briquetting Machine as A Small Business Venture	International Journal of Automation and Smart Technology 6 (4), 185-189	Journal
2016	Cobankiat, K.N., Pua, T.A., Que, R.V. Ebol, W., Chua, A.Y.	Quadrotor Research Platform with Obstacle Avoidance	Applied Mechanics and Materials 842, 283-287	Journal
2016	Kalaw, M.E., Culaba, A., Hinode, H., Kurniawan, W., Gallardo, S., Promentilla, M.A.	Optimizing and Characterizing Geopolymers from Ternary Blend of Philippine Coal Fly Ash, Coal Bottom Ash and Rice Hull Ash	Materials 9 (7), 580	Journal
2016	Kalaw, M.E., Culaba, A., Nguyen, H.T., Nguyen, K., Hinode, H., Kurniawan, W., Gallardo, S., Promentilla, M.A.	Mechanical and Thermal Properties of Geopolymers from Mixtures of Coal Ash and Rice Hull Ash using Water Glass Solution as Activator	ASEAN Journal of Chemical Engineering 2, 51-61	Journal
2016	CL Sy, KB Aviso, AT Ubando, RR Tan	Target-oriented robust optimization of polygeneration systems under uncertainty	Energy 116, 1334-1347	Journal

2016	CV Al Rey, AP Mayol, AT Ubando, JBMM Biona, NB Arboleda, MY David	Microwave drying characteristics of microalgae (<i>Chlorella vulgaris</i>) for biofuel production	Clean Technologies and Environmental Policy 18 (8), 2441-2451	Journal
2016	AT Ubando, AB Culaba, KB Aviso, RR Tan, JL Cuello, DKS Ng	Fuzzy mixed integer non-linear programming model for the design of an algae-based eco-industrial park with prospective selection of support tenants under product price variability	Journal of Cleaner Production 136, 183-196	Journal
2016	KB Aviso, AP Mayol, MAB Promentilla, JR Santos, RR Tan, AT Ubando	Allocating human resources in organizations operating under crisis conditions: A fuzzy input-output optimization modeling framework	Resources, Conservation and Recycling	Journal
2016	AT Ubando, KB Aviso, AB Culaba, JL Cuello, MM El-Halwagi, DKS Ng	A fuzzy mixed-integer linear programming model for optimal design of polygeneration systems with cyclic loads	Environmental Progress & Sustainable Energy 35 (4), 1105-1112	Journal
2016	AT Ubando, JL Cuello, MM El-Halwagi, AB Culaba, MAB Promentilla	Application of stochastic analytic hierarchy process for evaluating algal cultivation systems for sustainable biofuel production	Clean Technologies and Environmental Policy 18 (5), 1281-1294	Journal
2016	AT Ubando, CB Felix, IHV Gue, AP Mayol, NA Toledo, SS Garibay	Priority Evaluation of Life Cycle Impact Factors for Algal Biofuel Production in the Philippines using Analytic Hierarchy Process.	Applied Mechanics & Materials 842	Journal
2016	GL Augusto, AB Culaba, RMT Tanhueco	Pipe Sizing of District Cooling Distribution Network Using Implicit Colebrook-White Equation	Journal of Advanced Computational Intelligence Vol 20 (1)	Journal

2016	AK Sumabat, NS Lopez, KD Yu, H Hao, R Li, Y Geng, ASF Chiu	Decomposition analysis of Philippine CO 2 emissions from fuel combustion and electricity generation	Applied Energy 164, 795-804	Journal
2015	Cabatuan, M., Dadios, E., Gan Lim, L., Billones, R.K., Carandang, V.I., Punzalan, E., Enriquez, M.L., Erasga, D., Ples, M., Teruel, R., Sison-Gareza, B., De Castro, M.E., Carandang, J., Naguib, R.N.G.	Feature Driven Development of a Smartphone Based Vision-Aware mHealth Framework	Advanced Science Letters	Journal
2015	MFD Benjamin, AT Ubando, LF Razon, RR Tan	Analyzing the disruption resilience of bioenergy parks using dynamic inoperability input-output modeling	Environment Systems and Decisions 35 (3), 351-362	Journal
2015	KB Aviso, AT Ubando, AB Culaba, JL Cuello, MM El-Halwagi, RR Tan	A Mixed-Integer Linear Programming Model for Optimal Synthesis of Polygeneration Systems with Energy Storage for Cyclic Loads	CRC Press, Synthesis, Design, and Resource Optimization in Batch Chemical Plants	Journal
2015	N Lopez, B Mara, B Mercado, L Mercado, M Pascual, MA Promentilla	Design of modified Magnus wind rotors using computational fluid dynamics simulation and multi-response optimization	Journal of Renewable and Sustainable Energy 7 (6), 063135	Journal
2014	Diaz, F., Ngo, J., Pascual, M., Planes, A., Chua, A.	Enhanced energy conversion performance of Philippine photovoltaic panels through tilt angle adjustments: A mechatronics approach	Philippine Science Letters 7 (1), 7-12	Journal
2014	SDF Hilado, LAG Lim, RNG Naguib, EP Dadios, JMC Avila	Implementation of Wavelets and Artificial Neural Networks in Colonic Histopathological Classification	Journal of Advanced Computational Intelligence and Intelligent Informatics, 18, 5	Journal

2014	RC Gustillo, EP Dadios, EJ Calilung, LA Gan Lim	Neuro-Fuzzy Control Techniques for Optimal Water Quality Index in a Small Scale Tiger Prawn Aquaculture Setup	Journal of Advanced Computational Intelligence and Intelligent Informatics, 18, 5	Journal
2014	NS Gunay, EP Dadios, RRP Vicerra, AA Bandala, LA Gan Lim	Synchronized Dual Camera Vision System for Locating and Identify Highly Dynamic Objects	Journal of Advanced Computational Intelligence and Intelligent Informatics, 18, 5	Journal
2014	RRP Vicerra, EP Dadios, AA Bandala, LA Gan Lim	Swarm Robot System for Underwater Communication Network	Journal of Advanced Computational Intelligence and Intelligent Informatics, 18, 5	Journal
2014	AA Bandala, EP Dadios, RRP Vicerra, LA Gan Lim	Swarming Algorithm for Unmanned Aerial Vehicle (UAV) Quadrotors - Swarm Behavior for Aggregation, Foraging, Formation, and Tracking	Journal of Advanced Computational Intelligence and Intelligent Informatics, 18, 5	Journal
2014	Mohammadi, E., Dadios, E.P., Gan Lim, L.A., Cabatuan, M.K., Naguib, R.N.G., Avila, J.M.C., Oikonomou, A.	Real-Time evaluation of breast self-examination using computer vision	Journal of Biomedical Imaging 2014, 16	Journal
2014	AT Ubando, AB Culaba, KB Aviso, DKS Ng, RR Tan	Fuzzy mixed-integer linear programming model for optimizing a multi-functional bioenergy system with biochar production for negative carbon emissions	Clean Technologies and Environmental Policy 16 (8), 1537-1549	Journal
2014	R Manrique, A Ubando, AR Villagracia, J Corpuz, AA Padama, M David	A molecular dynamics investigation of water migration in a lipid bilayer for microalgae drying	Philippine Science Letters 7 (1), 138-145	Journal
2014	H Kasivisvanathan, AT Ubando, DKS Ng, RR Tan	Robust optimization for process synthesis and design of multifunctional energy systems with uncertainties	Industrial & Engineering Chemistry Research 53 (8), 3196-3209	Journal

2014	DV Perez, MD Al Rey Villagracia, N Arboleda Jr, R Manrique, A Ubando	A Computational Study on the effects of Temperature and Osmotic Pressure on Water Extraction on Microalgae using Big Multipole Water–Martini Forcefield on GROMACS Simulation	America 2020, 2035	Journal
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*Source: Google Scholar

