

STAFF HANDBOOK (CV)



Name	Prof. Ir. Arif Nur Afandi, ST, IPM, MT, MIAEng, MIEEE, Ph.D.		
Post	Intelligent Power and Advanced Energy Systems (IPAES)		
Academic Career	S1	Electrical Engineering, Brawijaya University, Indonesia	1997
	S2	Electrical Engineering, Gadjah Mada University, Indonesia	2006
	S3	Computer Science and Electrical Engineering, Kumamoto University, Japan	2014
Employment	Vice Dean of Engineering Faculty	Universitas Negeri Malang	2019
Research and development project over the last 5 year	Optimization of Thermal Energy Harvesting Using Artificial Salmon Tracking Algorithm Based on Controlled Power Loss on Electric Power Transmission for Waste Energy Capture Conversion		
	Evaluation of Random Shadow Penetration on Solar Module Using Intelligent Computation Method for Optimizing Energy Cell Generation on Storage System Process Mechanism		
	Enhanced Boost Active Switched Impedance on Quasi Z-Source Inverter		
	New Topology Design of Control System for High Voltage Gain Transformerless DC to DC Converter		
	Analysis and Design of High Voltage Gain Transformer-less DC-DC Converter for DC-Microgrid System		
	Efficiency Analysis of High Voltage Again Transformer-less DC-DC Converter		
	Design and Implementation of Quasi Z-Source Active-Switched Ground Point Clamped Multilevel Inverter on PV On-Grid System		
	Dual Active Switched Capacitor of Quasi Z-Source Inverter		
	Detailed on: https://sites.google.com/a/um.ac.id/anafandi/research		
Patens and propriety right	No	Intellectual Property Rights/ HAKI	Year
	1	PV Data Logger Mobile App	2019
	2	Balon Udara Nirkabel Bertenaga Surya-Baterai untuk Daerah Pasca Bencana	2019
			ID
			000139697
			SID201810030

	3	<i>Konverter DC-AC Rasio Tegangan Tinggi Menggunakan Saklar Impedansi Aktif Kapasitor Ganda</i>	2019	PID201904861
	4	<i>Konverter DC-AC Dengan Rangkaian Impedansi Saklar Aktif Bertingkat</i>	2019	PID201904862
Important publications over the last 5 year	The downstream speed estimation of the wind farm energy harvesting considering a random surface roughness			2020
	Heat transfer analysis of three phase transformer considering unpredictable load demand changes			2020
	Wind gradient impact on the potential wind energy profile based on the ground launch			2020
	Transformation of Thunderstorm Mechanisms into Computational Intelligence Applied to the Load Dispatch			2019
	Transformation of Salmon Migration into Intelligent Computation			2019
	Natural Obstacles and Biological Salmon Behaviors Link to Modelling Approaches of Computational Intelligence Procedures for the Standard System			2020
	Detailed on: https://sinta.ristekbrin.go.id/authors/detail?id=5972986&view=overview			
Activities in specialist bodies over the last 5 year	Power and Energy Systems (PES) Center	Director	2017-now	
	Intelligent Power and Energy Systems (IPAES) Research Group	Chair	2018-now	
	Smart Power and Advanced Energy Systems (SPAES) Research Center	Director	2019-now	
	Engineering Faculty, Universitas Negeri Malang	Vice Dean	2019-now	
	Power and Energy Society Chapter, IEEE Indonesia	Chair	2019-now	
	Frontier Energy System and Power Engineering (FESPE) Journal	Chief in Editor	2019-now	
	Electrical Engineering, Universitas Negeri Malang	Full Professor	2020-now	