



Dr. Rosmaliati, S.T., M.T

Power System Engineering

Bachelor's degree (Electrical Engineering) University of Hasanuddin, Makassar Indonesia 1994

Master's degree (Electrical Engineering) Sepuluh Nopember Institute of Technology, Surabaya, Indonesia 2000

Doctor's degree (Electrical Engineering) Sepuluh Nopember Institute of Technology, Surabaya, Indonesia 2022

Employment

Lecturer of Electrical Engineering Department University of Mataram, Indonesia 1996 – now

Head of Electrical Engineering Departement University of Mataram, Indonesia 2009 – 2013

Head of Power System Laboratory University of Mataram, Indonesia 2006 - 2009

Research and development projects over the last 5 years

1. Online Monitoring of Temperature and Electric Parameters for Estimating Remaining Life of Distribution transformer
2. Analysis of temperature and vibration for monitoring and diagnosis of the health conditions of the distribution transformers by using computational intelligent.
3. Prototype Design of Online Monitoring and Early Detection of Power Transformer Based on Computational Intelligence
4. Load Pattern Management Supplied by Hybrid System of Photovoltaic-Biogas
5. Development of Genetic Algorithms for Optimizing the Selection of Conductor Profiles in Distribution System Planning
6. Distribution System Planning Using Expert System and Optimal Design Through Conductor Gradation
7. Calculation of Electrical System Reliability of Water Company (PDAM Ujung Pandang)

Industry collaborations / Community Services over the last 5 years

1. Course on Energy Planning (DTU-Danish Energy Agency, Denmark), 16 June-13 July 2019
2. International Publication (Quality) Enhancement Program, Calpoly California USA, 25 October 2017-25 January 2018
3. Training Program for Magnetic Observatory Practice, GeoForschungsZentrum Potsdam (GFZ) German (27 October-9 November 2014)

4. LEAP for Regional GHG Mitigation at Sub-national Scale, USAID LEAD Program, Medan Indonesia (25-28 March 2014)
5. Course on Energy management/Energy planning 2010, Tu/e Netherlands
6. International Workshop on Sustainability experiments in Asia. How to foster their transformative potential, Kolkata India 2009

Patents and
proprietary rights

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Important publications
over the last 5 years

1. Rosmaliati; Bernandus Anggo Seno Aji; Isa Hafidz; Ardyono Priyadi; Mauridhi Hery Purnomo; , "Classification Method in Fault Diagnosis of Oil-Immersed Power Transformers by Considering Dissolved Gas Analysis ", EMITTER International Journal of Engineering Technology
2. Rosmaliati Rosmaliati; Oddy V. Putra; Isa Hafidz; Ardyono Priyadi; Taufik Taufik; Mauridhi Hery Purnomo, "Implementation of Extreme Learning Machine to Predict Distribution Power Transformer Lifetime", International Review of Electrical Engineering (IREE)
3. Cipta Ramadhani; Bulkis Kanata; Abdullah Zainuddin; Rosmaliati; Teti Zubaidah, "Geomagnetic anomaly associated with Fukushima earthquake on February 13 2021", E3S Web of Conferences
4. Teti Zubaidah; Rosmaliati; Cipta Ramadhani; Dwi Ratnasari, "Implementation of earthquake mitigation at the engineering faculty, university of mataram", E3S Web of Conferences
5. Tjahjono, A.; Septian, W.A.; Rosmaliati; Rika, N.W.; Taufik, T., "Modeling the Temperature of the Distribution Transformer Oil Using Transformer Body Temperature and Power Quality Parameters Based on Artificial Neural Network", 2019 International Conference on Technologies and Policies in Electric Power and Energy, TPEPE
6. Rosmaliati Rosmaliati; Imam W. Farid; Ardyono Priyadi; Taufik; Mauridhi Hery Purnomo, "Backpropagation and Radial Basis Function Neural Network to Predict Top-Oil Temperature of Distribution Transformer ", 2019 International Conference on Advanced Mechatronics, Intelligent Manufacture and Industrial Automation (ICAMIMIA)
7. Anwar, T.S.; Rosmaliati; Adila, A.F.; Lystianingrum, V.; Privadi, A.; Purnomo, M.H., "Design and Implementation of a Piezoelectric Accelerometer Using Arduino Mega for Detection of Vibration on the 20 kV Transformer Tank ",International Seminar on Intelligent Technology and Its Application, ISITIA
8. Setiawati, N.E.; Rosmaliati; Lystianingrum, V.; Priyadi, A.; Purnomo, M.H., "Distribution transformer oil age prediction using neuro wavelet ",10th International Conference on Information Technology and Electrical Engineering: Smart Technology for Better Society, ICITEE
9. Zubaidah, T.; Kanata, B.; Paniran; Misbahuddin; Rosmaliati; Yadnya, M.S.; Riskia, S., "Earth Magnetic Fields Evolution over Nusa Tenggara Region from Declination and Inclination Changes on Lombok Geomagnetic Observatory ",2nd International Conference on Applied Electromagnetic Technology, AEMT 2018
10. Rosmaliati; Setiawati, N.E.; Purnomo, M.H.; Priyadi, A., "Nguyen-Widrow Neural Network for Distribution Transformer Lifetime

Prediction “International Conference on Computer Engineering, Network and Intelligent Multimedia, CENIM

11. Tsabita, F.; Nur Rohman, W.; Rosmaliati; Vita Lystianingrum, B.P.; Purnomo, M.H., “Semi-Supervised Learning Optimization Based on Generative Models to Identify Type of Electric Load at Low Voltage “, International Seminar on Intelligent Technology and Its Application, ISITIA
12. Taufik, T.; Muchtar, R.; Taufik, M., “Performance analysis of multiple input boost converter with inherent or diode configuration” , 2017 International Seminar on Intelligent Technology and Its Application: Strengthening the Link Between University Research and Industry to Support ASEAN Energy Sector, ISITIA
13. Ayu Ahadi Ningrum; Iwan Syarif; Agus Indra Gunawan; Edi Satriyanto; Rosmaliati Rosmaliati, “Algoritma Deep Learning-LSTM untuk Memprediksi Umur Transformator”, Jurnal Teknologi Informasi dan Ilmu Komputer

Activities in specialist bodies over the last 5 years

Organisation	Role	Period
Regional Energy Forum of West Nusa Tenggara Province	Member	2005 –
Association of Indonesian Construction Expert (ATAKI) of West Nusa Tenggara, Electrical Division	Member	2006 – present
KONSUIL (National Committee for the Safety of Electrical Installations) West Nusa Tenggara Province	Member	2010
CAREPI Project of West Nusa Tenggara Province, Indonesia-Dutch Government Cooperation.	Leader	2006 – 2009
Regional Energy Team of West Nusa Tenggara Province	Member	2009 –
CASINDO project of West Nusa Tenggara Province, Indonesia-Dutch Government Cooperation.	Leader	2009 - 2012

