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Telecommunication, Digital Signal Processing

Bachelor's degree (Electrical Engineering) Universitas Hasanuddin, Makassar 1997

Master's degree (Electrical Engineering) Universitas Gadjah Mada, Yogyakarta 2002

Employment

Lecturer Undergraduate's program in Electrical Engineering, Engineering Faculty University of Mataram, Indonesia 1999

Research and development projects over the last 5 years

1. Data Analysis of Pattern Changes in Temperature and Magnetic Field at the Lombok Geomagnetic Observatory (LOK) (Internal Funds - 2022)
2. Application of Magnetic Polarization Method for Precursor Analysis in Large-Scale Earthquake Events in Fukushima Japan (Internal Funds - 2021)
3. Geomagnetic Data Analysis for Lombok Region Using Magnetic Polarization Method (internal funds - 2020)
4. Mini Geothermal Potential Exploration Using Geomagnetic Method in Sembalun Area (Dikti funds - 2019)
5. Development of Geomagnetic Observatory for Integrated Earthquake Early Warning System in Eastern Indonesia (Dikti Funds 2018-2019)
6. Adaptive Electrical Power Switch at the Lombok Geomagnetic Observatory Based on Programmable Logic Control (PLC) (internal funds - 2018)

Industry collaborations / Community Services over the last 5 years

1. Training on Planning and Installation of Safe Electrical Installations Based on PUIL 2011 (SNI 0225:2011) for Buildings for the Community of Jelantik Village, Jonggat District, Central Lombok Regency (2022)
2. Socialization of flood and landslide disaster mitigation due to the earthquake in Sade Village, Central Lombok (2021)
3. Disaster Mitigation Implementation Program in Earthquake Conditions for Disaster Preparedness Schools at PAUD Ponpes Nurul Wathan, Central Lombok, NTB (2020)
4. Socialization and Implementation of Earthquake Disaster Mitigation Oriented to Decrease in Earth's Magnetic Field Due to Fault Movement at Nurul Wathan Islamic Boarding School, Central Lombok, NTB (2019)
5. Installation of Pumps to Raise Groundwater Integration of a Wind Power Plant in Rembitan Village, Central Lombok, NTB (2018)

Patents and
proprietary rights
Important publications
over the last 5 years

1. Analisis Pergeseran Garis Pantai Di Wilayah Pesisir Kabupaten Lombok Utara Dengan Metode Weighted Normalized Difference Water Index (Wndwi) Dan Deteksi Tepi Canny Pada Citra Landsat 8, Sinta-4 by Ristek/BRIN (2022), doi: <https://doi.org/10.29303/dielektrika.v9i2.315>
2. Determining The Image Object Area Using Color-Based Segmentation Technique in HSV Color, Dielektrika, Accredited Sinta-4 by Ristek/BRIN (2021), doi: <https://doi.org/10.29303/dielektrika.v8i2.274>
3. Analisis suara Pernapasan Paru-Paru Asma dengan Tidak Asma Menggunakan Metode K Nearest Neighbors, vol. 8, no. 1, p. 1-7, 2021. ISSN 2579-650X, doi: <https://doi.org/10.29303/dielektrika.v8i1.251>
4. Application of Supervised Classification Maximum Likelihood Method in Landsat Satellite Image to Map the Change of Land Cover at the Bukit Barisan Selatan National Park (BBSNP), Accredited Sinta-4 by Ristek/BRIN (2021), doi: <https://doi.org/10.29303/dielektrika.v8i1.265>
5. Analisis Big Data Geomagnetik Dengan Metode Diferensiasi Sebagai Prekursor Gempa Lombok Tahun 2018, doi: <https://doi.org/10.29303/jstl.v0i0.258> (2021)
6. Geomagnetic anomaly associated with Fukushima earthquake on February 13th, 2021, E3S Web of Conferences 331, 07012 (2021), <https://doi.org/10.1051/e3sconf/202133107012>
7. Survey of Geothermal Energy Potential using Geomagnetic Method in Sembalun Timba Gading, Lombok, Proceeding International Conference on Science (ICST), pp: 42-47, Vol. 1, Jun 2020
8. Mapping of Magnetic Flux Density on Mini Magneto-static Flux Manipulator, Proceeding International Conference on Science (ICST), pp: 183-187, Vol. 1, Jun 2020
9. Correlation of Geomagnetic Signal for Earthquake Studies in 2016-2017 between Indonesian, Australian and Guam, Proceeding International Conference on Science (ICST), pp: 261-266, Vol. 1, Jun 2020
10. Improving the Accuracy of Face Recognition Using Residual Network (Resnet), Proceeding International Conference on Science (ICST), pp: 219-223, Vol. 1, Jun 2020
11. The Handling of Missing Data At Nurul Bayan Geomagnetic Station, Lombok, Proceeding International Conference on Science (ICST), pp: 255-260, Vol. 1, Jun 2020
12. Design Of The System To Determine The Quality Of The Coffee Beans Based On Colour Using K-Nearest Neighbor, Jurnal Bakti Nusa, P. ISSN : 2721-2181 25 Vol. 1, No. 2. 25 – 36, 2020
13. Geomagnetic Signal Processing in the Lombok Region using Fractal Method, Dielektrika, [E-ISSN 2579-650x] 1Vol. 7, No.1 : 01 - 06, 2020, doi: <https://doi.org/10.29303/dielektrika.v7i1.215>
14. Analisis Kinerja Sistem OFDM pada Kanal AWGN dan Rayleigh dengan Modulasi M-QAM dan M-PSK Berbasis Simulink, Vol. 6, No. 1 : 9-18, 2019, doi: <https://doi.org/10.29303/dielektrika.v6i1.191>

15. Earth Magnetic Fields Evolution over Nusa Tenggara Region from Declination and Inclination Changes on Lombok Geomagnetic Observatory, 2018, The 2nd International Conference on Applied Electromagnetic Technology (AEMT), doi: 10.1109/AEMT.2018.8572475
16. Earth Magnetic Fields Evolution over Nusa Tenggara Region from Intensity and Power Spectral Density Changes on Lombok Geomagnetic Observatory, 2018, The 2nd International Conference on Applied Electromagnetic Technology (AEMT), doi: 10.1109/AEMT.2018.8572349

Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	FORTEI	Member	2021 - 2022
	IEEE	Member	2020 - 2022