Prof. Dr. Ir. Fahmi, S.T., M.Sc., IPU

Lecturer of Undergraduate Program in Electrical Engineering Study Program
Faculty of Engineering
Universitas Sumatera Utara

fahmimn@usu.ac.id

USU Faculty of Engineering

ft.usu.ac.id/en/lecturer/fahmi

Prof. Dr. Ir. Fahmi, S.T., M.Sc., IPM is the Dean of the Faculty of Engineering and also serves as a professor in Electrical Engineering at Universitas Sumatera Utara. He completed his Bachelor's degree in Electrical Engineering from 1998 to 2002, then pursued a Master's degree in Sensor System Technology at FH Karlsruhe, Germany, from 2003 to 2005. After completing his studies, he worked in the medical device industry, reaching the position of product manager at a private company before transitioning to academia in 2007. He was also actively involved in the development of USU Hospital in Medan.

He earned his Ph.D. in Biomedical Engineering from Universiteit van Amsterdam, the Netherlands, from 2010 to 2015. Throughout his academic career, he has held several leadership roles, including Head of the Electrical Engineering Study Program, member of the Academic Senate, and member of the Board of Trustees at USU. Currently, he serves as the Dean of the Faculty of Engineering at USU, in addition to his primary role as a lecturer and researcher in Electrical and Biomedical Engineering.

Publications

2026
Prosiding seminar internasional

Digital Maturity Index in Higher Education Indonesia: Indicators for Digital Transformation Readiness

SIHAR P PANJAITAN , FAHMI , KHAIRUL MUNADI

2026
Book chapter internasional

Resilient Landscapes and Livelihoods: Multidisciplinary Approaches to Achieving the SDGs in Tropical Regions

FAHMI

2026
Jurnal internasional bereputasi

DEVELOPMENT OF MULTIAGENT GENERATIVE PIPELINES FRAMEWORK FOR LEARNING PLAN GENERATION WITH DETERMINISTIC CONSTRAINT VERIFICATION

MOHAMMAD FADLY SYAH PUTRA , OPIM SALIM SITOMPUL , FAHMI , MAYA SILVI LYDIA , PAUZI IBRAHIM NAINGGOLAN , RENDRA MAHARDIKA , Riza Sulaiman

2026
Prosiding seminar internasional

Immersive Virtual Reality-Based Throat Surgery Simulation: Design, Implementation, and Pedagogical Evaluation

ROMI FADILLAH RAHMAT , MOHAMMAD FADLY SYAH PUTRA , OPIM SALIM SITOMPUL , MAYA SILVI LYDIA , FAHMI , MUHAMMAD ARFIZA PUTRA SARAGIH , PAUZI IBRAHIM NAINGGOLAN , Riza Sulaiman

2025
Jurnal internasional bereputasi

Enhancing Electric Vehicle Charging Stations through Internet of Things Technology for Optimizing Photovoltaic and Battery Storage Integration

FAHMI

2025
Prosiding seminar internasional

Comparison of Principal Component Analysis and Multiscale Principal Component Analysis Performance on Autism Electroencephalography Signals

MELINDA , YUWALDI AWAY , PRIMA DEWI PURNAMASARI , FAHMI

2025
Prosiding seminar internasional

Analysis of Harmonic Distortion Effects on Grid-Tie Inverter Operation in a Photovoltaic System

SYAFRUDDIN , ERWIN SUTANTO , PRADINA PARAMESWARI , Muhammad Aziz , FAHMI

2025
Prosiding seminar internasional

Analysis of Parameters That Affect the Safety of Substation Grounding Grids in Non-Homogeneous Soils

SURYA HARDI , FAHMI

2025
Prosiding seminar internasional

Soil Corrosion Rate Analysis on Grounding System Based on Current Density Difference on Electric Vehicle Charging System

FAHMI , SURYA HARDI , KRISMADINATA , SYAFII

2025
Jurnal internasional bereputasi

Feature-Based EEG Classification: A Comparative Study of EMD and EWT With EEGNet and Shallow FBCSP ConvNet

PRIMA DEWI PURNAMASARI , MELINDA , YUWALDI AWAY , FAHMI

2025
Jurnal internasional bereputasi

Feature-Based EEG Classification: A Comparative Study of EMD and EWT With EEGNet and Shallow FBCSP ConvNet

FAHMI

2025
Jurnal internasional bereputasi

A comprehensive EEG dataset and performance assessment for Autism Spectrum Disorder

FAHMI

2025
Jurnal internasional bereputasi

Integrating Virtual Reality, EEG Signal, and Haptic Feedback to Support Post-Stroke Rehabilitation System

BAIHAQI SIREGAR , FAHMI

2025
Prosiding seminar internasional

Development of Distance Measurement Estimation Model for Specific Objects

FAHMI , POLTAK SIHOMBING , HERDIANTO , TULUS

2025
Prosiding seminar internasional

Soil Moisture Control Algorithm Using MQTT and Fuzzy Logic for Enhancing Agricultural Productivity

FAHMI

2025
Jurnal internasional bereputasi

Recognition of EEG Features in Autism Disorder Using SWT and Fisher Linear Discriminant Analysis

ELIZAR , MELINDA , FAHMI , PRIMA DEWI PURNAMASARI , AUFA RAFIKI

2025
Jurnal internasional bereputasi

Recognition of EEG Features in Autism Disorder Using SWT and Fisher Linear

Discriminant Analysis

MELINDA , FAHMI , PRIMA DEWI PURNAMASARI

2025
Jurnal internasional bereputasi

Recognition of EEG Features in Autism Disorder Using SWT and Fisher Linear Discriminant Analysis

FAHMI

2025
Prosiding seminar internasional

Development of Smart and Green University Towards a Sustainable and Environmentally Friendly Campus: Case Study at Universitas Sumatra Utara

FAHMI , HERMANSYAH ALAM

2025
Jurnal nasional

PENERAPAN SISTEM IDENTIFIKASI EKSPRESI WAJAH ANAK PENYANDANG AUTISME BERBASISKAN CITRA TERMAL PADA SEKOLAH BERKEBUTUHAN KHUSUS DI BANDA ACEH

MISBAHUDDIN , YUNIDAR , MUHARRATUL MINA RIZKY , YUWALDI AWAY , FAHMI , MELINDA , HENDRIK LEO , MUHAMMAD IRHAMSYAH , CUT DEWI

2025
Jurnal internasional bereputasi

SAVITZKY-GOLAY AND WIENER FILTERING PERFORMANCE ANALYSIS IN ELECTROENCEPHALOGRAPHY SIGNAL PROCESSING OF AUTISTIC CHILDREN

FAHMI

2025
Jurnal internasional bereputasi

Design and Implementation of Photovoltaic Emulator for Testing of Photovoltaic Energy Conversion System

FAHMI

2025
Jurnal internasional bereputasi

DENSENET DEVELOPMENT WITH SQUEEZE-AND-EXCITATION BLOCK FOR TOMATO PLANT DISEASE CLASSIFICATION

FAHMI

2025
Prosiding seminar internasional

Optimizing K-Nearest Neighbor Values Using The Elbow Method

ELVIAWATY MUISA ZAMZAMI , FAHMI

2025
Jurnal internasional bereputasi

SAVITZKY-GOLAY AND WIENER FILTERING PERFORMANCE ANALYSIS IN ELECTROECEPHAOGRAPHY SIGNAL PROCESSING OF AUTISTIC CHILDREN

FAHMI

2025
Jurnal internasional bereputasi

Challenges and opportunities of tropical disease management in North Sumatra

FAHMI

2025
Jurnal internasional bereputasi

Contactless Infant Height Measurement for Enhanced Early Detection of Stunting Using Computer Vision Techniques

FAHMI

2025

Jurnal internasional bereputasi

Gated Recurrent Unit in Malaria Forecasting with Meteorological and Clinical Data

ROMI FADILLAH RAHMAT , FAHMI , AYODHIA PITALOKA

2025
Jurnal internasional bereputasi

The effect of cation ordering on the structure, electrical and electronic properties of cubic spinel LiNi0.5Mn1.5O4

FAHMI

2025
Jurnal internasional bereputasi

DEVELOPMENT OF A DISTANCE MEASUREMENT MODEL USING A MAGNIFICATION APPROACH AND MODIFICATION OF THE YOLOV3 ARCHITECTURE

FAHMI

2025
Jurnal internasional bereputasi

Gated Recurrent Unit in Malaria Forecasting with Meteorological and Clinical Data

FAHMI

2025
Prosiding seminar internasional

Soil Moisture Control Algorithm Using MQTT and Fuzzy Logic for Enhancing Agricultural Productivity

FAHMI

2025
Prosiding seminar internasional

Development of Distance Measurement Estimation Model for Specific Objects

FAHMI

2024
Prosiding seminar internasional

Harmonic Analysis of PV Inverter-Based EV Charging Station Activity on the Utility Grid

FAHMI

2024
Prosiding seminar internasional

Harmonic Analysis of PV Inverter-Based EV Charging Station Activity on the Utility Grid

SYAFII , AULIA , KRISMADINATA , FAHMI

2024
Jurnal internasional bereputasi

Alcoholic EEG Signal Feature Extraction Based on Relative Wavelet Bispectrum and Bispectrum-Gaussian Using CNN and ANN Classifier

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2024
Prosiding seminar internasional

Alcoholic EEG Signal Feature Extraction Based on Relative Wavelet Bispectrum and Bispectrum-Gaussian Using CNN and ANN Classifier

FAHMI

2024
Prosiding seminar internasional

Identification of Mangrove Leaf Disease in Deep Convolutional Neural Network Approach

FAHRURROZI LUBIS , ROMI FADILLAH RAHMAT , MAYA SILVI LYDIA , FAHMI

2024

Prosiding seminar internasional

Performance Analysis of Support Vector Machine (SVM) Model Through Parameter Optimization with Genetic Algorithm (GA) in Chronic Kidney Disease Classification

FAHMI

2024
Prosiding seminar internasional

Improving Prediction Accuracy in IoT Network Security Against DDoS Attacks by Combining RIPPER and KNN Algorithms

FAHMI

2024
Prosiding seminar internasional

Wearable Microstrip Patch Antenna to Develop Wireless Body Area Network for Electroencephalogram (EEG) Application

FAHMI

2024
Prosiding seminar internasional

Optimizing K-Nearest Neighbor Values Using The Elbow Method

FAHMI

2024
Jurnal internasional bereputasi

Bioinformatics design of peptide binding to the human cardiac troponin I (cTnI) in biosensor development for myocardial infarction diagnosis

FAHMI

2024
Prosiding seminar internasional

Improving Object Distance Measurement Based on Mono Camera Using Magnification and Yolo Methods

FAHMI , HERDIANTO , POLTAK SIHOMBING

2024
Prosiding seminar internasional

Innovative Portable Quantitative EEG Data Acquisition Based Cyton Biosensing Board using PSD Analysis

FAHMI

2024
Jurnal nasional terakreditasi

CLUSTERING ROTATIONAL CHURN OF TELECOMMUNICATIONS CUSTOMERS USING A DATA-CENTRICAI APPROACH

MAYA SILVI LYDIA , FAHMI , MUHAMMAD ISA DADI HASIBUAN

2024
Jurnal internasional bereputasi

A Hybrid of Extreme Learning Machine and Cellular Neural Network Segmentation in Mangrove Fruit Classification

FAHMI , OPIM SALIM SITOMPUL , PAUZI IBRAHIM NAINGGOLAN , Riza Sulaiman , MAYA SILVI LYDIA , ROMI FADILLAH RAHMAT

2024
Jurnal internasional bereputasi

Microgrid Monitoring for Patient Safety in Hospital Using Distributed Residual Current

FAHMI

2024
Prosiding seminar internasional

Cataract Detection Using Deep Learning in Teleophthalmology Systems

FAHMI

2024

Jurnal internasional bereputasi

The molecular interaction of six single-stranded DNA aptamers to cardiac troponin I revealed by docking and molecular dynamics simulation

ERWIN SUTANTO , FAHMI

2024
Prosiding seminar internasional

Electrical Properties of Vanadium-doped LiNi<inf>0.5</inf>Mn<inf>1.5</inf>O<inf>4</inf>as Cathode Materials for High Voltage for Lithium- ion Batteries

FAHMI

2024
Prosiding seminar internasional

Design and economic analysis of integrated power systems with solar cell-diesel-battery-micro hydro off-grid (a case study of pinal village samosir district)

FAHMI

2024
Jurnal internasional bereputasi

The molecular interaction of six singlestranded DNA aptamers to cardiac troponin I revealed by docking and molecular dynamics simulation

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2024
Prosiding seminar internasional

Design and Implementation of Photovoltaic Monitoring System Using Arduino UNO R4

FAHMI

2024
Prosiding seminar internasional

An Evaluation of LoRaWAN and WLAN for IoT-based Photovoltaic Microgrid Monitoring

FAHMI

2024
Prosiding seminar internasional

Improved Decision Tree Accuracy (C4. 5) with Attribute Reduction Using Forward Selection in Data Classification

FAHMI

2024
Buku referensi

PERKEMBANGAN TEKNOLOGI DIGITAL UNTUK BERBAGAI BIDANG KEHIDUPAN (DIGITAL TECHNOLOGY FOR HUMANITY)

FAHMI

2024
Prosiding seminar internasional

Densenet-121 Analysis for Classification of Tomato Leaf Diseases

FAHMI

2024
Prosiding seminar internasional

Improving Object Distance Measurement Based on Mono Camera Using Magnification and Yolo Methods

FAHMI

2024
Prosiding seminar internasional

Identification of Mangrove Leaf Disease in Deep Convolutional Neural Network Approach

FAHMI

2024
Prosiding seminar internasional

Estimation of Electrical Energy Needs Using Backpropagation Neural Network

FAHMI

2024
Book chapter nasional

Natural Resources, Environment, and Food and Energy Security Updates in North Sumatra

FAHMI

2024
Prosiding seminar internasional

Construction of a Self-Balancing Cube With Embedded Reaction Wheel Drive and Preliminary Investigation of Simple Harmonic Motion Patterns

FAHMI

2023
Prosiding seminar internasional

The Application of Three-Phase Induction Motor Protection Automated System To Overcome Overload Conditions and Zelio Logic-Based High Temperatures

FAHMI , AGAHARI AHMAD , SYAFRUDDIN HS

2023
Prosiding seminar internasional

Design of 8 Elements Aperture-Coupled Rectangular Microstrip Patch Antenna Linier Array for S-Band Applications

FAHMI

2023
Prosiding seminar internasional

Initial Design of Wearable EEG Device for Epilepsy Patient Using Machine Learning and Mobile Application

MUHAMMAD YAZID , WERVYAN SHALANNANDA , ERWIN SUTANTO , FAHMI

2023
Jurnal internasional bereputasi

MATHEMATICAL MODEL FOR OPTIMIZATION IN AIR TRAFFIC SCHEDULING MANAGEMENT DURING THE COVID-19 PANDEMIC

FAHMI

2023
Jurnal internasional bereputasi

Smart Card-based Access Control System using Isolated Many-to-Many Authentication Scheme for Electric Vehicle Charging Stations

MUHAMMAD YAZID , FAHMI , WERVYAN SHALANNANDA , Prof. Dr. Eng Muhammad Aziz , ERWIN SUTANTO

2023
Jurnal internasional bereputasi

Smart Card-based Access Control System using Isolated Many-to-Many Authentication Scheme for Electric Vehicle Charging Stations

FAHMI , WERVYAN SHALANNANDA , ERWIN SUTANTO , MUHAMMAD IMRAN HAMID

2023
Prosiding seminar internasional

Analysis of Handover Rate Improvement by Applying Hysteresis Threshold–Locally Optimal Models and Variation Number of BTS on CDMA System

FAHMI

2023
Jurnal internasional bereputasi

Smart Card-based Access Control System using Isolated Many-to-Many Authentication Scheme for Electric Vehicle Charging Stations

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2023

Jurnal internasional bereputasi

Efficacy of dihydroartemisinin-piperaquine plus primaquine treatment on vivax malaria in North Sumatera, Indonesia: a prospective observational study

FAHMI

2023
Jurnal internasional bereputasi

Lithium-Ion Battery State-of-Charge Estimation from the Voltage Discharge Profile Using Gradient Vector and Support Vector Machine

FAHMI

2023
Jurnal internasional bereputasi

Lithium-Ion Battery State-of-Charge Estimation from the Voltage Discharge Profile Using Gradient Vector and Support Vector Machine

FAHMI

2023
Prosiding seminar internasional

Initial Design For Utilizing Machine Learning In Identifying Diseases In Palm Oil Plant

FAHMI

2023
Prosiding seminar internasional

Design Of Teleophthalmology

FAHMI

2023
Jurnal internasional bereputasi

Implementation of Closing Eyes Detection with Ear Sensor of Muse EEG Headband using Support Vector Machine Learning

FAHMI

2023
Prosiding seminar internasional

Shelf-Life Prediction of Oil Palm Fresh Fruit Bunches Using Artificial Neural Networks

FAHMI

2022
Jurnal internasional bereputasi

Simple Authentication Method for Vehicle Monitoring IoT Device with Verifiable Data Integrity

MUHAMMAD YAZID , RACHMAD SETIAWAN , ERWIN SUTANTO , FAHMI , ARIPRIHARTA , Prof. Dr. Eng Muhammad Aziz

2022
Jurnal internasional bereputasi

Simple authentication method for vehicle monitoring IoT device with verifiable data integrity

FAHMI

2022
Prosiding seminar internasional

Blockchain-based e-Government: Exploring Stakeholders Perspectives and Expectations

FAHMI

2022
Prosiding seminar internasional

Identification and Sorting of Waste using Artificial Intelligence Based on Convolutional Neural Network

FAHMI

2022
Prosiding seminar internasional

Design and Development of Posture Detection System Using Load Sensor

FAHMI

2022
Prosiding seminar internasional

Floating power plant applications for electric battery using thermoelectric generators (TEG) on solar panels

FAHMI

2022
Jurnal internasional bereputasi

Prospective observational study of dihydroartemisinin-piperaquine treatment of vivax malaria in North Sumatera, Indonesia

FAHMI

2022
Prosiding seminar internasional

An Analysis Air Traffic Prediction During a Pandemic

FAHMI

2022
Jurnal internasional bereputasi

Comparison of the performance of the CareStart Malaria Pf/Pan Combo test and field microscopy in the diagnosis of Plasmodium vivax malaria in North Sumatera, Indonesia

FAHMI

2022
Jurnal internasional bereputasi

Comparison of the performance of the CareStart Malaria Pf/Pan Combo test and field microscopy in the diagnosis of Plasmodium vivax malaria in North SumateraÂ ...

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2021
Prosiding seminar internasional

Synthetic Sound to Improve Safety Aspect of Electric Motorcycles

FAHMI

2021
Prosiding seminar internasional

Contactless and Cashless Smart Vending Machine Integrated with Mobile Device

FAHMI

2021
Jurnal nasional terakreditasi

Pemanfaatan Metode AHP dalam Pemilihan Proyek Infrastruktur

FAHMI

2021
Jurnal internasional bereputasi

Development of a person's facial expression recognition system using a convolutional neural network

FAHMI

2021
Prosiding seminar internasional

Development of a person’s facial expression recognition system using a convolutional neural network

FAHMI

2021
Prosiding seminar internasional

Person’s multiple intelligence classification based on tweet post using SentiStrength and processed on the Apache Spark framework

FAHMI

2021
Jurnal internasional bereputasi

Securing sensor data transmission with ethernet elliptic curve cryptography secure socket layer on STM32F103 device

FAHMI

2021
Jurnal internasional bereputasi

Development of electromyography signal function to control robot arm working adaptively in the reverse direction of the human arm movement

FAHMI

2021
Jurnal internasional bereputasi

Design and characteristics assessment of wireless vibration sensor for buildings and houses

FAHMI

2021
Jurnal internasional bereputasi

Evaluation of antibiotic prescriptions for sepsis in the neonatal intensive care unit in a tertiary hospital in north sumatera, indonesia

FAHMI

2021
Jurnal internasional bereputasi

Spatio-temporal patterns of dengue incidence in Medan City, North Sumatera, Indonesia

FAHMI

2021
Jurnal internasional bereputasi

Simple Detection of Epilepsy from EEG Signal Using Local Binary Pattern Transition Histogram

FAHMI

Researches

2024
Penelitian Dana Lokal Perguruan Tinggi

PEMETAAN KELAINAN SEL DARAH MERAH DI WILAYAH ENDEMIS MALARIA, KUALUH LEIDONG, LABUHANBATU UTARA

AYODHIA PITALOKA , BEBY SYOFIANI HASIBUAN , FAHMI

2024

Optimalisasi Sistem Pengisian Daya Kenderaan Listrik Berbasis Energi Surya-Baterai-Grid PLN

SYAFII , KRISMADINATA , FAHMI

2024
Penelitian Kompetensi

Pengembangan model penyebaran penyakit Difteri berbasis analisis spasio-temporal untuk prediksi risiko dan penanganan terintegrasi

AYODHIA PITALOKA , RESTUTI HIDAYANI SARAGIH , FAHMI

2023
Penelitian Kerjasama Antar Perguruan Tinggi

Sistem Monitoring Microgrid Untuk Keselamatan dan Efisiensi Listrik

ERWIN SUTANTO , PRADINI PUSPITANINGAYU , FAHMI , Prof. Dr. Eng Muhammad Aziz

2022

Sistem Multi Sensor Pengendali Parameter Lingkungan Akuaponik Berbasis Edge Computing

BAIHAQI SIREGAR , FAHMI

2022
Penelitian Kerjasama Antar Perguruan Tinggi

Pengembangan Sistem Monitoring Baterai Kendaraan Listrik

FAHMI

2021
Penelitian Unggulan Perguruan Tinggi

Model Pergerakan Robot Lengan Menggunakan Sinyal Electromyography

FAHMI , FITRA NURMAYADI

2021
Penelitian Kerjasama Antar Perguruan Tinggi

Pengembangan Alat Deteksi Epilepsi Wearable yang Berbasis IoT dan Machine Learning

FAHMI

2021
Penelitian Kerjasama Antar Perguruan Tinggi

IoT dan Sistem Cerdas Bidang Kesehatan

FAHMI

2021
Kerjasama Luar Negeri dan Publikasi Internasional

Pemodelan penyebaran penyakit malaria berbasis geographic information system dengan mobile application dan analisis big data sebagai alat bantu pendukung program eliminasi 2030

FAHMI

2021

Sistem Multi Sensor Pengendali Parameter Lingkungan Akuaponik Berbasis Edge Computing

BAIHAQI SIREGAR , FAHMI

2021
Penelitian Unggulan Perguruan Tinggi

Model Estimasi Sikap Tubuh Manusia Berdasarkan Hasil Penginderaan Computer Vision

BAIHAQI SIREGAR , FAHMI

2021
Penelitian Fundamental

Model Pergerakan Robot Lengan Menggunakan Sinyal Electromyography

BAIHAQI SIREGAR , FAHMI

2020
Penelitian Dana Lokal Perguruan Tinggi

Pola Penyebaran COVID-19 pada Anak di Provinsi Sumatera Utara

AYODHIA PITALOKA , FAHMI

2020

Penerapan Teknologi Kesehatan Pada Pengolahan Sinyal Citra Medis Terintegrasi Dengan Kecerdasan Buatan Untuk Dignosa Penyakit Otak dan Turunannya

SAWALUDDIN , IRINA KEMALA NASUTION , FAHMI

2020
Kerjasama Luar Negeri dan Publikasi Internasional

Fighting Tuberculosis in Indonesia Using AI and Automated-Microscope

FAHMI

2020
Penelitian Dana Lokal Perguruan Tinggi

Sistem Rehabilitasi Pasca Stroke Menggunakan Virtual Reality, Emotiv EEG, dan Senso Haptic Glove

FAHMI

2020

evaluasi Kesesuaian Persepan Antibiotik Menggunakan Perangkat Lunak Online Sebagai Bagian dari Antimicrobial Stewardship Program

AYODHIA PITALOKA , FAHMI

2020

Pola Penyebaran Covid-19 Pada Anak Provinsi Sumatera Utara

AYODHIA PITALOKA , RESTUTI HIDAYANI SARAGIH , FAHMI

2020
Penelitian Kerjasama Antar Perguruan Tinggi

Sistem Monitoring Inkubator Bayi Berbasis Internet of Things

FAHMI

2019
Penelitian Dana Lokal Perguruan Tinggi

Penerapan Virtual Reality Interaktif untuk Simulator Ereksi Konstruksi Baja Menggunakan Senso Glove

FAHMI

2019
Penelitian Dana Lokal Perguruan Tinggi

Komparasai VR Controller antara VIVE, Leap Motion dan Senso Gloves

FAHMI

2019
Penelitian Dana Lokal Perguruan Tinggi

Pengembangan VR untuk simulasi ereksi konstruksi sipil

FAHMI

2019
Penelitian Dana Lokal Perguruan Tinggi

Analisis Virtual Reality Controller dan Komparasi VIVE Controller, Leap Motion dan Senso Glove dalam Sistem Pembelajaran Anatomi

FAHMI , KASMIR TANDJUNG

2019
Penelitian Kerjasama Antar Perguruan Tinggi

Sistem Monitoring Kondisi Kendaraan Mobil Berbasis Internet of Things

FAHMI

2018
Penelitian Dana Lokal Perguruan Tinggi

Simulator Pembelajaran Kerangka Tubuh Manusia di Lingkungan Virtual Reality

FAHMI

2018
Penelitian Unggulan Perguruan Tinggi

Penerapan Teknologi Kesehatan Pada Pengolahan Sinyal Citra Medis terintegrasi Dengan Kecerdasan Buatan Untuk Diagnosa Penyakit Otak dan Turunannya

FAHMI

2018

Produk Komersil Hasil Industri Kreatif Bebasis Desain 3D

FAHMI

2018
Penelitian Dana Lokal Perguruan Tinggi

Sistem Absensi dan Penjadwalan Kuliah Menggunakan Kode Untuk Perangkat

Bergerak

FAHMI

2018
Ipteks Bagi Kewirausahaan

Sistem Monitoring Trafo Listrik

FAHMI

2017
Ipteks Bagi Kewirausahaan

Pengembangan Sistem Pembelajaran Anatomi Interaktif Anatouchmy

FAHMI

2017
Penelitian Dana Lokal Perguruan Tinggi

Simulator Pengendalian Excavator Menggunakan Leap Motion Controller pada Lingkungan Virtual Reality

FAHMI

2017
Ipteks Bagi Inovasi Kreativitas Kampus

Penginderaan Vegetasi Hasil Data Citra Ortophotos Menggunakan UAV

FAHMI

2016
Penelitian Dana Lokal Perguruan Tinggi

Sistem Penghitung Benih Ikan Portabel Berbasis Arduino

FAHMI

2016
Penelitian Hibah Bersaing

Desain dan pengembangan smart cloud sinyal dan citra medis untuk deteksi penyakit otak

FAHMI

2016
Penelitian Dana Lokal Perguruan Tinggi

Pemanfaatan Teknologi Drone Untuk Pemetaan Kawasan Rawan Bencana Sinabung

FAHMI

2016

Merancang SOP Pengelolaan, Pengendalian, dan Pengawasan Warung Internet Kabupaten Cirebon

OTONG SAEPUL BACHRI , HARLIANA , KOSIM , KHALID ISKANDAR , FAHMI , WIKE PERTIWI

2015
Penelitian Dana Lokal Perguruan Tinggi

Sistem pengukuran Ketinggian Objek Berbasis Mikrokontroler

FAHMI

2009
Penelitian Unggulan Strategis Nasional

Peningkatan Produksi Biogas Sebagai Bahan Bakar Pembangkit Listrik Melalui Sistem Terintegrasi Sapi â€“ Sawit

FAHMI

Community Services

2025

Rapat Kordinasi Calon Asesor Pemantauan SPBE Tahun 2025

FAHMI

2025

Tim Penyusun Rencana Strategis Kementrian Pendidikan Tinggi, Sains, dan Teknologi Tahun 2025-2029

FAHMI

2024

PENGANGKATAN PSIKOLOG UNTUK PELAYANAN JASA PSIKOLOGI HARIAN DI PUSAT PELAYANAN PSIKOLOGI PADA MASYARAKAT (P3M) PADA FAKULTAS PSIKOLOGI UNIVERSITAS SUMATERA UTARA TAHUN 2024

FILIA DINA ANGGARAENI , ZULKARNAIN , SRI SUPRIYANTINI , FAHMI , RIDHOI MEILONA PURBA

2024

Rapat Evaluasi Kerja Forum Dekan Teknik Indonesia Wilayah Barat dan Pelaksanaan Program Kegiatan Bina Desa Tahun 2024

FAHMI

2023

Pembentukan Tim Pelaksana Kajian Penanganan Longsoran Antara Stasiun Rantauprapat Baru-Pondok S5

IVAN INDRAWAN , FAHMI

2022

Tim Pelaksana pengabdian masyarakat di desa binaan tahun 2022

FAHMI , NURSYAMSI

2018

Dampak Media Sosial Bagi Kehidupan Remaja

KOSIM , FAHMI

2018
Ipteks Bagi Kewirausahaan

Produk Komersil Hasil Industri Kreatif Berbasis Desain 3d

SAWALUDDIN , ULFI ANDAYANI , FAHMI

2017
Ipteks Bagi Inovasi Kreativitas Kampus

IbKIK Penginderaan Vegetasi Hasil Data Citra Ortophotos Menggunakan Uav

SAWALUDDIN , ULFI ANDAYANI , FAHMI

2016
Ipteks

Penerapan Teknologi Sensor Untuk Pelatihan Pembelajaran Stem Pada Siswa Sekolah Kejuruan

BAIHAQI SIREGAR , ULFI ANDAYANI , FAHMI

2011

Workshop Pengenalan Pembuatan Aplikasi Pada Ponsel Berbasis Android

FAHMI

Intellectual Property Rights

2024
Hak cipta nasional

Sistem Akuisisi Data EEG Menggunakan Cyton

FAHMI

2023
Hak cipta nasional

MAID (Malaria Infection Detection) Mobile App

FAHMI , YUNITA SARI PANE

2023

Hak cipta nasional

THORMET APP: Aplikasi Mobile Untuk Menentukan Tingkat Keparahan Pasien Penyakit Paru Obstruktif Kronis (PPOK)

FAHMI

2023
Paten nasional

Metode Pengukuran Rongga Dada Untuk Menentukan Keparahan Tingkat Penyakit Paru Obstruktif Kronis

FAHMI

2020
Hak cipta nasional

Evaluasi Kesesuaian Peresepan Antibiotik Menggunakan Perangkat Lunak Online Sebagai Bagian Dari Antimicrobal Stewardship Program

FAHMI , ZULFENDRI , AYODHIA PITALOKA

2019
Paten nasional

Kursi Roda Listrik yang Dikendalikan oleh Posisi Tubuh

FAHMI

2016
Paten nasional

ALAT PENGHITUNG BIBIT BENIH IKAN PORTABEL MULTI VARIAN MENGGUNAKAN PENGENDALI MIKRO ARDUINO

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