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Suherman has worked as a lecturer at Universitas Sumatera Utara since 2003. He completed a B.Eng in Electrical Engineering from Universitas Sumatera Utara in 2000, an M.Sc. in Computing from RMIT Australia in 2009, and a Ph.D. in Electrical Engineering from DMU-UK in 2013. He followed some non-degree courses: Mobile Communication at Ilmenau, Germany (2010) and Bioinformatics in EBI-Cambridge, UK (2011). In 2022, he pursued an online M.Sc. program in Financial Engineering from WorldQuant University, New Orleans, USA.

Publications

2021

Prosiding seminar internasional

Dropped voltage analysis on 20 KV distribution network

SUHERMAN

2019

Prosiding seminar internasional

Modification of chipertext Elgamal algorithm using split merge

SUHERMAN

2019

Prosiding seminar internasional

Performance Comparison of Looping and Input-Output Algorithms on The 8th Benes Switching Network

SUHERMAN

2023

Jurnal internasional bereputasi

Vehicle detection system based on shape, color, and time-motion

SUHERMAN

2019

Prosiding seminar internasional

Analysis of Fuzzy Logic Method for Load Lifting Robot

SUHERMAN

2021

Jurnal internasional bereputasi

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

FAHMI, SUHERMAN

2020

Prosiding seminar internasional

Bearing Damage Detection using Support Vector Machine

SUHERMAN

2026

Jurnal internasional bereputasi

An efficient negative acknowledgement-based transport protocol in 802.11 media streaming

SUHERMAN

2020

Prosiding seminar internasional

Performance Analysis of Classifier in Detecting Epileptic Seizure Based on Discrete Wavelet Transform

SUHERMAN

2022

Prosiding seminar internasional

FVD Method as AC Drives for Three Phase Induction Motor with Digester, Conveyor and Pump Loads

SUHERMAN

2026

Jurnal internasional bereputasi

Increasing Uplink Broadband Video Streaming Performance in WiMAX Networks

SUHERMAN

2019

Prosiding seminar internasional

Performance comparison of Looping and Input-Output Algorithms on the 8 \times 8 Benes Switching Network

SUHERMAN

2021

Prosiding seminar internasional

Convolutional Neural Network Approach and Implementation Sensor Design for Detecting Object

SUHERMAN

2021

Jurnal internasional bereputasi

Classification of skin cancer images by applying simple evolving connectionist system

SUHERMAN

2020

Prosiding seminar internasional

Impact of queue tree and layer 7 filtering combination to bandwidth management in 802.3 Network

SUHERMAN

2022

Prosiding seminar internasional

Considerations on Fish sensor network installation

SUHERMAN

2020

Prosiding seminar internasional

Expert System for Diagnosing Dental and Mouth Diseases with a Website-Based Certainty Factor (CF) Method

SUHERMAN

2025

Prosiding seminar internasional

Hidden Wave-based Power Harvester for Powering the Fish Sensor Network

SUHERMAN , FIRMAN ALFONSO SIADARI , Marwan

2020

Prosiding seminar internasional

When Cermet Applied for Hard Machining of Steel: A Review

SUHERMAN

2021

Poster seminar internasional

Design of Geothermal and Solar Hybrid Renewable Energy in Sipoholon Village, North Tapanuli Regency, North Sumatera

SUHERMAN

2019

Prosiding seminar internasional

Improving One-Time Pad Algorithm on Shamir's Three-Pass Protocol Scheme by Using RSA and ElGamal Algorithms

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2022

Prosiding seminar internasional

The use of active filter to mitigate harmonics in cryptocurrency mining computer

SUHERMAN , DAMAI LENDRA BOY RENDIKA

2021

Prosiding seminar internasional

Review on Target Tracking Method in Multimedia Wireless Sensor Networks

MUHAMMAD ZARLIS , SYAHRIL EFENDI , SUHERMAN

2021

Prosiding seminar internasional

Design of Rectangular Microstrip Patch Antenna 2-Elements Array for Dual Broadband Applications

SUHERMAN

2020

Prosiding seminar internasional

Spur Gear Failure Detection using Support Vector Machine

SUHERMAN

2020

Prosiding seminar internasional

Sensor based versus server based image detection sensor using the 433 Mhz radio link

SUHERMAN , FAHMI

2026

Prosiding seminar internasional

Clustered cell breathing for load balancing in mobile and wireless networks

SUHERMAN

2013

Prosiding seminar internasional

Adjusting WiMAX for Downlink Video Transmission

SUHERMAN

2022

Prosiding seminar internasional

Impact of Multimedia Sensor Placement to Car Licence Number Detection

SUHERMAN

2020

Prosiding seminar internasional

Layer two compression for erroneous wireless

SUHERMAN

2021

Prosiding seminar internasional

Automatic Control Circuit Design for a Clothes Dryer

SUHERMAN

2018

Prosiding seminar internasional

Improving One-Time Pad Algorithm on Shamir's Three-Pass Protocol Scheme

by Using RSA and ElGamal Algorithms

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2021

Prosiding seminar internasional

Amplitude range data validation in Internet of Things (IoT) sensor

SUHERMAN

2026

Jurnal internasional bereputasi

Underground radio propagation on frequency band 97 MHz–130 MHz

SUHERMAN

2026

Prosiding seminar internasional

Al-Akaidi, R

SUHERMAN

2015

Prosiding seminar internasional

UDP-Lite: between redundancy and error bit correction

SUHERMAN

2024

Jurnal internasional

Ubiquitous-cloud-inspired deterministic and stochastic service provider models with mixed-integer-programming

SUHERMAN

2020

Prosiding seminar internasional

Reducing link quality impact to encrypted packets by compressing the transmitted data

SUHERMAN

2014

Jurnal internasional bereputasi

An efficient negative acknowledgement-based transport protocol in 802.11 media streaming

SUHERMAN

2020

Prosiding seminar internasional

Cermet for Turning Hardened Steel

SUHERMAN

2021

Prosiding seminar internasional

Impact encryption algorithm used in three pass protocol for securing WiMAX link

SUHERMAN

2015

Jurnal internasional

WiMAX subscriber station signal amplification impacts on energy consumption and multimedia packet reception

SUHERMAN

2019

Prosiding seminar internasional

Load balancing algorithm for a local video network

SUHERMAN

2020

Prosiding seminar internasional

Downlink ratio impact on downstream traffic performances on WiMAX

SUHERMAN

2019

Prosiding seminar internasional

Performance comparison of Looping and Input-Output Algorithms on the 8 x 8 Benes Switching Network

SUHERMAN

2026

Jurnal nasional

Desain Protokol Jaringan untuk Komunikasi Multimedia melalui WiMAX

SUHERMAN

2021

Prosiding seminar internasional

Simulation and Optimization of Microstrip Dipole Antenna using Cohen-Minkowski Fractal for 433 MHz Applications

SUHERMAN

2022

Jurnal nasional terakreditasi

Pengaruh Perbedaan Jumlah Katalis Terhadap Angka Yield Pada Proses Pembuatan Biodiesel dari Minyak Goreng Sisa Menggunakan Pemanas Double Jacket

M. SABRI , SUHERMAN

2019

Prosiding seminar internasional

Maximizing Power Tracking of an Offshore Wind Turbine Using Perturb and Observe Method

ZULKARNAEN PANE , SUHERMAN

2021

Prosiding seminar internasional

Grounding Systems in High Voltage Substation by Analysis Optimization Design (Case Study : 150kV Tapak Tuan Substation)

SUHERMAN

2015

Prosiding seminar internasional

Increasing Video Surveillance Performance over LMDS System in Rainy Environment

SUHERMAN

2020

Prosiding seminar internasional

Minimizing transmission load in the 433 Mhz radio link based image sensor

SUHERMAN

2018

Prosiding seminar internasional

Impact three pass protocol modifications to key transmission performance

MUHAMMAD ZARLIS , SUHERMAN

2019

Prosiding seminar internasional

Skin Diseases Classification Using Local Binary Pattern and Convolutional Neural Network

SUHERMAN

2019

Jurnal internasional bereputasi

Impact three pass protocol modifications to key transmission performance

AFIF BADAWI , SUHERMAN , MUHAMMAD ZARLIS

2021

Prosiding seminar internasional

Review on Target Tracking Method in Multimedia Wireless Sensor Networks

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2019

Prosiding seminar internasional

Improving One-Time Pad Algorithm on Shamir's Three-Pass Protocol Scheme by Using RSA and ElGamal Algorithms

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2019

Prosiding seminar internasional

Optimizing solar panel output by using light sensors, driving motors and fuzzy controller

SUHERMAN

2025

Prosiding seminar internasional

Impact Water Replacement in Passive Cooling System to Solar Cell Performances

SUHERMAN , BELA SARTIKA DEWI

2021

Prosiding seminar internasional

Filter impact based on inverter circuit performances

SUHERMAN

2025

Jurnal internasional bereputasi

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

RISFENDRA , ARIPRIHARTA , SUHERMAN , FAHMI , GHERI FEBRI ANANDA , DWI SUDARNO PUTRA

2025

Prosiding seminar internasional

Linear Actuator Performance Assessment for Solar Cell Maximum Power Tracking

SUHERMAN , ADRYAN FADILLAH , Marwan

2021

Prosiding seminar internasional

Movement Parameters for Evaluating the Two-legged Humanoid Robot

SUHERMAN

2014

Jurnal internasional

An efficient negative acknowledgement-based transport protocol in 802.11 media streaming

SUHERMAN

Researches

2015

Penelitian Fundamental

Teknik Multiple Akses Paket Radio: Model, Simulasi, Perbandingan Kinerja dan Imp

MASYKUR SJ , SUHERMAN

Community Services

2025

Pengurus BKM Al-Amri

SUHERMAN

2025

Ketua Program Studi S1 Teknik Elektro

SUHERMAN

Intellectual Property Rights

2014

Hak cipta nasional

Penerapan Kesehatan Keselamatan (K3) di Lingkungan Laboratorium Elektro

SUHERMAN , RAKESH NAIDU , YUSUF NAFIQ BUWONO , HARRIS VALENTINO PERANGINANGIN , SAMUEL PHILIP B. SITUMORANG , HIZKIA SIRAIT , NISMAH PANJAITAN

2014

Hak cipta nasional

Tegangan Tinggi, Risiko Tinggi : Yuk Kenali K3 Kelistrikan

SUHERMAN , EKA PUTRA VIRYA , STEPHANY , DANDY FAHRIZA , CLAUDYA PERMATA RIANY , T. FAIZA AZ ZAHRA FERRY , QAEDIF RAYYAN AL TSAQIF , DICKY WAHYU SAHPUTRA CHAN , NISMAH PANJAITAN

2014

Buku lainnya

A Novel Approach for Implementing Worldwide Interoperability for Microwave Access for Video Surveillance

SUHERMAN

2014

Buku lainnya

Jaringan Telekomunikasi

SUHERMAN

2014

Hak cipta nasional

Video Edukasi K3 Laboratorium Teknik Elektro

NISMAH PANJAITAN , SUHERMAN , BAYU MULYADIKA , ZUHAINA ZAHRA , ZULHIDAYAH , LUCKY SAM PRATAMA TELAUMBANUA , REVI ZARWATI HARAHAP
