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Emerson Pascawira Sinulingga, S.T., M.Sc., Ph.D. was born in Medan on March 30, 1977. He is an Electrical lecturer at the Universitas Sumatera Utara. He completed his Doctor of Philosophy in Electrical and Electronic Engineering at the Department of Electrical & Electronic Engineering, the School of Engineering, the University of Manchester, UK in 2014.

Publications

2026
Prosiding seminar nasional

Optimizing The Revenue Recording System For Non-Core Assets Through Gap Analysis SERVQUAL Model (Case Study : PT Perkebunan Nusantara III (Persero))

RULIANDA PURNOMO WIBOWO , EMERSON PASCAWIRA SINULINGGA

2026
Jurnal nasional terakreditasi

STRATEGI PENINGKATAN CAPAIAN NILAI AKUNTABILITAS KINERJA INSTANSI PEMERINTAH (AKIP) MELALUI IMPLEMENTASI DIGITALISASI ADMINISTRASI PADA SATKER KEJAKSAAN TINGGI SUMATERA UTARA

MEILITA TRYANA SEMBIRING , AULIA ISHAK , EMERSON PASCAWIRA SINULINGGA

2025
Jurnal internasional bereputasi

A comprehensive EEG dataset and performance assessment for Autism Spectrum Disorder

PRIMA DEWI PURNAMASARI , MELINDA , FAHMI , EMERSON PASCAWIRA SINULINGGA , YUWALDI AWAY , YUNIDAR

2025
Prosiding seminar internasional

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

EMERSON PASCAWIRA SINULINGGA , FAHMI , PRIMA DEWI PURNAMASARI , ANAK AGUNG PUTRI RATNA , MELINDA

2025
Jurnal internasional bereputasi

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

EMERSON PASCAWIRA SINULINGGA , FAHMI , FAHMI , Nurlida Basir , Muhammad Saifullah , Prima Dewi Purnamasari

2025
Prosiding seminar internasional

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

EMERSON PASCAWIRA SINULINGGA , FAHMI , MELINDA , PRIMA DEWI PURNAMASARI , GLORI MARIANI SILITONGA , Abdul Risyal Nasution

2025

Prosiding seminar internasional

The Influence of Soil Two-Layer Structures on Substation Safety in Lightning Strike Conditions

EMERSON PASCAWIRA SINULINGGA , SURYA HARDI , DWI PUTRI WARDANI , Muhd Hafizi Idris

2024
Jurnal nasional terakreditasi

STRATEGY FOR IMPLEMENTING THE EFFECTIVENESS OF PERSONNEL SERVICES BASED ON INFORMATION TECHNOLOGY

EMERSON PASCAWIRA SINULINGGA , MEILITA TRYANA SEMBIRING , NURMAN ACHMAD

2024
Jurnal nasional terakreditasi

FACTORS INFLUENCING THE MATURITY LEVEL OF ELECTRONIC-BASED GOVERNMENT SYSTEM MANAGEMENT DOMAIN IMPLEMENTATION

EMERSON PASCAWIRA SINULINGGA , MEILITA TRYANA SEMBIRING , FARID AULIA

2024
Jurnal nasional terakreditasi

Business Process Improvement Design for Academic Administration in Supporting the Achievement of Timely Graduates in the Master of Management Study Program at the University of North Sumatra

EMERSON PASCAWIRA SINULINGGA , MEILITA TRYANA SEMBIRING , FAHMI

2024
Jurnal nasional terakreditasi

Business process improvement design for academic administration in supporting the achievement of timely graduates in the master of management study program at the University ofÂ ...

MEILITA TRYANA SEMBIRING , EMERSON PASCAWIRA SINULINGGA

2024
Prosiding seminar internasional

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

EMERSON PASCAWIRA SINULINGGA , FAHMI , MELINDA , PRIMA DEWI PURNAMASARI , Imam Ashabul Yamin

2024
Jurnal nasional terakreditasi

Compact 3D monolithic microwave integrated circuit bandpass filter based on meander resonator for 5G millimeter-wave

EMERSON PASCAWIRA SINULINGGA , MEILITA TRYANA SEMBIRING

2023
Prosiding seminar internasional

3dB Wilkinson Power Divider Using Monolithic Microwave Integrated Circuit Technology

SURYA HARDI , ANDREAS JUAN DANIEL SIMORANGKIR , EMERSON PASCAWIRA SINULINGGA

2023
Prosiding seminar internasional

Analysis of soil resistivity improvement with variations of bentonite and chemical for grounding of electrical equipment

SURYA HARDI , EMERSON PASCAWIRA SINULINGGA

2023
Prosiding seminar internasional

Optimization Design of Grounding System Substation With Multilayer Soil Model (Case Study: 275 kV Nagan Raya Substation)

RISWAN DINZI , YULIANTA SIREGAR , NAEMAH MUBARAKAH , EMERSON PASCAWIRA SINULINGGA

2023
Prosiding seminar internasional

Metal Insulator Metal Capacitors, Spiral Inductors and Resistors for Multilayer CPW MMIC

EMERSON PASCAWIRA SINULINGGA

2023
Prosiding seminar internasional

Optimization Design of Grounding System Substation With Multilayer Soil Model

NAEMAH MUBARAKAH , YULIANTA SIREGAR , EMERSON PASCAWIRA SINULINGGA , RISWAN DINZI

2023
Prosiding seminar internasional

Simulation and design of the circular polarization microstrip antenna with CSRR metamaterial structure

ALI HANAFIAH RAMBE , EMERSON PASCAWIRA SINULINGGA

2023
Jurnal internasional bereputasi

FOAM STABILITY OF LOCAL SURFACTANT ON THE PRESENCE OF CONTAMINANT CD IONS, COFFEE AND OIL IN SOLUTION

BODE HARYANTO , Dr. KERISTA TARIGAN, M.Eng.Sc. , EMERSON PASCAWIRA SINULINGGA , RINA BR BUKIT , RONDANG TAMBUN

2021
Prosiding seminar internasional

Diagnosis of Transformer Isolation Using Dielectric Dissipation Factor (Tan Delta) and Insulation Resistance: A Review Study

EMERSON PASCAWIRA SINULINGGA , HARYOTO PRASETYO NUGROHO , AZWAR NASUTION , Syafruddin Hasan

2021
Prosiding seminar internasional

An introduction of scada-based based back pressure vessel (BPV) at palm oil factory with biomass energy

ZAHRUL ULUM , EMERSON PASCAWIRA SINULINGGA , SITI LATIFAH , KHAIRA AMALIA FACHRUDDIN , SYAFRUDDIN HS

2020
Prosiding seminar internasional

An introduction of Scada-Based Based Back Pressure Vessel (BPV) at Palm Oil Factory with Biomass Energy

SYAFRUDDIN HS , KHAIRA AMALIA FACHRUDDIN , SITI LATIFAH , EMERSON PASCAWIRA SINULINGGA

2020
Jurnal internasional bereputasi

Data Science Around the Indexed Literature Perspective

ERNA BUDHIARTI NABABAN , ESTHER SORTA MAULI NABABAN , EMERSON PASCAWIRA SINULINGGA , OPIM SALIM SITOMPUL , MAHYUDDIN

2019
Jurnal nasional terakreditasi

3D Modeling Parallel Coupled-Line Bandpass Filter Based on Coplanar Waveguide MMIC Multilayer Technology

EMERSON PASCAWIRA SINULINGGA , SUHERMAN

2017
Prosiding seminar internasional

A Method to Extract the Forensic about Negative Issues from Web

MAHYUDDIN , SRI MELVANI HARDI , EMERSON PASCAWIRA SINULINGGA , RUNTUNG SITEPU

2011
Artikel ilmiah

Wideband 3D coplanar waveguide to thin-film microstrip transition in multilayer technology

EMERSON PASCAWIRA SINULINGGA

Researches

2016
Penelitian Hibah Bersaing

Sistem Pemantauan LIngkungan Jarak Jauh Pasca Letusan Gunung Sinabung Menggunakan Teknologi Wireless Sensor Network

BAIHAQI SIREGAR , SOEHARWINTO , EMERSON PASCAWIRA SINULINGGA

Community Services

2023
Ipteks Bagi Kewirausahaan

MANAJEMEN OPERASI DAN PEMASARAN UMKM TANAH KARO

ISKANDARINI , EMERSON PASCAWIRA SINULINGGA , RULIANDA PURNOMO WIBOWO , MUHAMMAD ANGGIA MUCHTAR , MEILITA TRYANA SEMBIRING

2024
Ipteks Bagi Kewirausahaan

Penyusunan Peta Rencana dan Sesudah SPBE Pemerintah Daerah Sumatera Utara

EMERSON PASCAWIRA SINULINGGA , KASMIR TANDJUNG , HENDRA ZULKARNAIN

2023
Ipteks Bagi Masyarakat

Pelatihan Desain Robot Beroda Pada Siswa SMA Negeri 1 Sidikalang

SOEHARWINTO , TIGOR HAMONANGAN NASUTION , EMERSON PASCAWIRA SINULINGGA , FAHMI , KASMIR TANDJUNG

2019

Pelatihan Pembuatan Alat Kejernihan Air Tanah Menggunakan Sensor dan Arduino untuk Siswa SMK

SOEHARWINTO , EMERSON PASCAWIRA SINULINGGA , EDI WARMAN , KASMIR TANDJUNG , NAEMAH MUBARAKAH