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Dosen Program Studi S1 Ilmu Komputer
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Bapak Handrizal, S.Si., M.Comp.Sc. Lahir di Pariaman pada tanggal 13 Juni 1977. Pada tahun 2003 menyelesaikan pendidikan sarjana matematika di Universitas Sumatera Utara (USU) Medan dan pada tahun 2011 menyelesaikan pendidikan Master of Computer Science di Universiti Malaysia Pahang (UMP) Malaysia, saat ini beliau sedang menempuh pendidikan Doktor Ilmu Komputer di Universitas Sumatera Utara (USU) Medan.

Pada tahun 2017 beliau bergabung di program studi S1 Ilmu Komputer Universitas Sumatera Utara sebagai dosen tetap dan dipercaya sebagai auditor internal pada Unit Manajemen Mutu Universitas Sumatera Utara dari tahun 2017 sampai 2021

Nasehat yang selalu diingat oleh bapak Handrizal dalam menjalani karir selama ini adalah "Permudahlah urusan orang lain maka Allah SWT akan mempermudah urusan anda di dunia dan di akhirat".

Publications

2026

Prosiding seminar internasional

Reciprocal Interaction Modeling and Community- Based Influence Measurement in Large Twitter Networks Using the Leiden and Louvain Algorithms

HANDRIZAL , AINUL HIZRIADI

2026

Prosiding seminar internasional

A Multi-objective Orchestration Framework for Balancing Latency and Carbon Emissions in SDN Backbone Networks

HANDRIZAL , HERRIYANCE

2025

Prosiding seminar internasional

Latency Compensation and State Synchronization Using Unity Netcode

JOS TIMANTA TARIGAN , HANDRIZAL , ALEXANDER YUANATA

2025

Jurnal internasional bereputasi

Advancements in Detection of Top Influencer Marketing in the Airline Industry: A Combination of the Leiden Algorithm and Graph Coloring

HANDRIZAL , POLTAK SIHOMBING , ERNA BUDHIARTI NABABAN , MOHAMMAD ANDRI BUDIMAN

2025

Jurnal internasional bereputasi

EcoRouting: Carbon-Aware Path Optimization in Green Internet Architectures

HERRIYANCE , AMER SHARIF , HANDRIZAL

2025

Prosiding seminar internasional

The Combination of the Leiden Algorithm and Graph Coloring for Influencers Detection in Large Scale Social Networks

HANDRIZAL , POLTAK SIHOMBING , ERNA BUDHIARTI NABABAN , MOHAMMAD ANDRI BUDIMAN

2025
Prosiding seminar internasional

A Comparative Analysis of Louvain and Leiden Coloring Algorithms in Influencer Detection

HANDRIZAL , POLTAK SIHOMBING , ERNA BUDHIARTI NABABAN , MOHAMMAD ANDRI BUDIMAN

2025
Buku referensi

Pengantar Komputasi Paralel dan Terdistribusi dengan Penerapan Machine Learning

ELVIWANI , MUHAMMAD ZARLIS , HANDRIZAL , POLTAK SIHOMBING

2025
Jurnal internasional bereputasi

Improving Road Safety in Indonesia: A Clustering Analysis of Traffic Accidents Using K-Medoids

HANDRIZAL , HAYATUNNUFUS

2025
Jurnal internasional bereputasi

An Improvement Of The Leiden Algorithm For Influencer Detection

HANDRIZAL , POLTAK SIHOMBING , ERNA BUDHIARTI NABABAN , MOHAMMAD ANDRI BUDIMAN

2025
Jurnal internasional bereputasi

An Improvement of Method for Difficulty Adjustment Based on Procedures In The Game "Lost Labyrinths: Rogue's Odyssey"

JOS TIMANTA TARIGAN , HERRIYANCE , HANDRIZAL

2024
Jurnal internasional bereputasi

Classification Of Corn Leaf Diseases Using Cnn: A Deep Learning Approach

HANDRIZAL , FUZY YUSTIKA MANIK

2024
Jurnal internasional bereputasi

Leiden Coloring Algorithm for Influencer Detection

POLTAK SIHOMBING , ERNA BUDHIARTI NABABAN , MOHAMMAD ANDRI BUDIMAN , HANDRIZAL

2024
Jurnal internasional bereputasi

Penentuan Tempat Evakuasi Korban Bencana Gempa dengan Metode Analytical Hierarchy Process (AHP) dan Višekriterijumsko Kompromisno Rangiranje (VIKOR)(Studi Kasus: Kota Medan)

HANDRIZAL , FAUZAN NURAHMADI

2024
Jurnal internasional bereputasi

A HYBRID APPROACH COMBINING LONG SHORT-TERM MEMORY AND RANDOM FOREST FEATURE SELECTION FOR NETWORK INTRUSION DETECTION

FAUZAN NURAHMADI , HANDRIZAL

2024
Jurnal internasional bereputasi

Palm Oil Production Prediction Using Long Shortterm Memory Method

DEWI SARTIKA BR GINTING , HANDRIZAL , HERRIYANCE

2024
Prosiding seminar internasional

Technique for order of preference by similarity to ideal solution (TOPSIS) method and Mapbox API for barbershop selection in medan

DEWI SARTIKA BR GINTING , HANDRIZAL

2024
Prosiding seminar internasional

Determining investment priority in SMEs of Medan city using analytical hierarchy process and technique for order preference by similarity to ideal solution

DEWI SARTIKA BR GINTING , HANDRIZAL

2024

Prosiding seminar internasional

Mask detection at Pubbarama Buddhist center using environment of Mobilenet-SSD

SRI MELVANI HARDI , HANDRIZAL

2024

Prosiding seminar internasional

Mask detection at Pubbarama Buddhist center using environment of Mobilenet-SSD

SRI MELVANI HARDI , HANDRIZAL

2024

Prosiding seminar internasional

Analysis of Potential Hazards at the Sea With Artificial Neural Network And Accident Prevention With SOS Smart System Innovation

DEWI SARTIKA BR GINTING , MUHAMMAD FAJRI AL BANNA , HANDRIZAL , T.HENNY FEBRIANA HARUMY

2024

Jurnal internasional bereputasi

Multi-Objective Method Combination Analysis Optimization on the Basis on Ration Analysis (MOORA) and Best First Search Algorithm In The Selection of Obstetrician and Gynecology Practices

FAUZAN NURAHMADI , HANDRIZAL

2024

Jurnal internasional bereputasi

Combination of Case-Based Reasoning and Certainty Factor for Detection of Baby Blues Syndrome

DESILIA SELVIDA , HANDRIZAL

2024

Jurnal internasional bereputasi

Comparison of Outstanding Employee Selection at Benu Coffee Roaster Using Brown-Gibson and Simple Additive Weighting (SAW) Methods

HERRIYANCE , HANDRIZAL

2024

Jurnal internasional bereputasi

Sentiment Analysis Based On PUBGM Player Aspects From App Store Reviews Using Bidirectional Encoder Representation From Transformer(BERT)

FUZY YUSTIKA MANIK , HANDRIZAL

2023

Jurnal internasional bereputasi

Securing and Compressing Text Files using The AES 256 Algorithm and Levenstein Code

FAUZAN NURAHMADI , HANDRIZAL

2023

Jurnal internasional bereputasi

Sentiment Analysis Based on 7p Marketing Mix Aspects of The Indriver Application Service Using The Bert Algorithm, Based on User Reviews on The Google Play Store

T.HENNY FEBRIANA HARUMY , HERRIYANCE , HANDRIZAL

2023

Jurnal internasional bereputasi

Aspect-Based Sentiment Analysis on Chatgpt in Twitter using Bidirectional Encoder Representations From Transformers (BERT)

2023

Jurnal internasional bereputasi

Analysis of Best First Search and Forward Chaining Algorithm on Diagnosis System of Broiler Chicken Diseases

FAUZAN NURAHMADI , HANDRIZAL

2023

Jurnal internasional bereputasi

Algorithm Forward Chaining And Backward Chaining For Diagnosing Diabetes Mellitus

HANDRIZAL , HAYATUNNUFUS

2022

Jurnal internasional bereputasi

Comparison of Stout Code and Fibonacci Code Algorithm for File Compression Based on Android

T.HENNY FEBRIANA HARUMY , HANDRIZAL

2020

Jurnal internasional bereputasi

Comparison of steepest ascent hill climbing algorithm and best first search algorithm in determining the shortest route for medan tourism

DIAN RACHMAWATI , HANDRIZAL

Researches

2025

Ipteks

Sistem Klasifikasi Tanaman Air Berdasarkan Kebutuhan Cahaya,CO2 serta Penempatan Tanaman pada Aquascape Menggunakan Citra Digital Dengan Pendekatan Deep Learning

SRI MELVANI HARDI , HANDRIZAL

2025

Ipteks

Sistem Identifikasi Kebutuhan Cahaya Tanaman Air Aquascape Pada Citra Digital Menggunakan Deep Learning-Proposal Usulan Penelitian Terapan - Sri Melvani Hardi_

SRI MELVANI HARDI , HANDRIZAL , ANANDHINI MEDIANTY NABABAN , ALVIAN

2022

Inovasi Smart System "SOS" & Pencarian Lokasi Layanan Kesehatan Terdekat Berbasis Artificial Intelligence Protis Neural Network Untuk Peningkatan Kualitas Keselamatan Dan Kesehatan Masyarakat Pesisir

T.HENNY FEBRIANA HARUMY , DEWI SARTIKA BR GINTING , HANDRIZAL

Community Services

2023

Ipteks Bagi Masyarakat

Pengenalan Aplikasi IQRO Bersuara Berbasis Android pada sekolah Taman Kanak-Kanak TADIBIYAH Marindal

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2026
Hak cipta nasional

Program Komputer Penerapan Algoritma Leiden Dalam Sistem Penentuan Calon Marketing Pemasaran Bisnis Berbasis Analisis Jaringan Sosial

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2026
Hak cipta nasional

Program Komputer Multi-Objective Orchestration Framework For Balancing Latency And Carbon Emissions

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2025
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Program Komputer Ecorouting

HANDRIZAL

2025
Hak cipta nasional

Pengantar Komputasi Paralel dan Terdistribusi dengan Penerapan Machine Learning

ELVIWANI , MUHAMMAD ZARLIS , HANDRIZAL , POLTAK SIHOMBING

2025
Hak cipta nasional

Program Komputer Kombinasi Algoritma Leiden dan Graph Coloring Untuk Menentukan Top Influencer Marketing

HANDRIZAL , POLTAK SIHOMBING , MOHAMMAD ANDRI BUDIMAN , ERNA BUDHIARTI NABABAN

2025
Hak cipta nasional

Kombinasi Algoritma Leiden Dan Graph Coloring untuk Menentukan Top Influencer Marketing

HANDRIZAL , POLTAK SIHOMBING , MOHAMMAD ANDRI BUDIMAN , ERNA BUDHIARTI NABABAN
