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Mahyuddin menyelesaikan pendidikan sarjana di bidang Matematika di Universitas Sumatera Utara (USU) dan lulus pada tahun 1992. Ia kemudian melanjutkan studi magister di bidang Teknologi Informasi di Universiti Kebangsaan Malaysia (UKM). Pada tahun 2013, ia meraih gelar doktor di bidang Teknologi Pengetahuan dari universitas yang sama.

Publications

2024

Jurnal internasional bereputasi

Computer Science on Philosophy Perspective

MAHYUDDIN

2025

Jurnal internasional bereputasi

A SCALABLE MODEL FOR CAPACITATED VEHICLE ROUTING PROBLEM WITH PICKUP AND DELIVERY UNDER DYNAMIC CONSTRAINTS USING ADAPTIVE HEURISTIC-BASED ANT COLONY OPTIMIZATION

MAHYUDDIN

2025

Jurnal nasional terakreditasi

Customer Segmentation of Mobile Banking Users Using Feature Engineering and K-Means Clustering

MAHYUDDIN , ELVIAWATY MUISA ZAMZAMI , HIJJA ANIA BINTI ANDI SURYA

2025

Book chapter internasional

Local wisdom and sustainable forest management

MAHYUDDIN

2020

Prosiding seminar internasional

Data Science Around the Indexed Literature Perspective

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2023

Jurnal internasional bereputasi

Microwave absorption and electromagnetic evaluations of the single and bilayer absorbers of sphere like BFO and pompon flower-like CoGd ferrites

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2025

Makalah ilmiah

An Extended CRITIC Algorithm Based on Spherical Fuzzy Sets to Determine the Objective Weights of Decision-Makers

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2023

Prosiding seminar internasional

Blockchain: A background for the sake of understanding

2023

Book chapter internasional

Networks and Systems in Cybernetics

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2020

Prosiding seminar internasional

A Method to Prove the Existence of a Similarity

MAHYUDDIN

2020

Jurnal internasional

Dynamic Control Financial Supervision (OJK) for Growth Customer Behavior using KYC System

ISMAIL HUSEIN , MAHYUDDIN , RAHMAD SYAH

2024

Jurnal internasional bereputasi

A Study About Complexity of Social Network

MAHYUDDIN

2024

Prosiding seminar internasional

Diet-menu problem modelling based on Linear Boolean approach

MAHYUDDIN

2023

Jurnal internasional

Pareto Frontier Approach to Determining the Optimal Path on Multi-Objectives

ELVINA HERAWATI , MAHYUDDIN

2023

Jurnal nasional terakreditasi

A Mathematical Model of Diet Menu Problem Based on Boolean Linear Programming Approach

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2020

Jurnal internasional bereputasi

The effect of the TF-IDF algorithm in times series in forecasting word on social media

MAHYUDDIN

2020

Prosiding seminar internasional

A framework of utilizing big data of social media to find out the habits of users using keyword

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Jurnal internasional bereputasi

A SCALABLE MODEL FOR CAPACITATED VEHICLE ROUTING PROBLEM WITH PICKUP AND DELIVERY UNDER DYNAMIC CONSTRAINTS USING ADAPTIVE HEURISTIC-BASED ANT COLONY OPTIMIZATION

IMAM MUSLEM R , MAHYUDDIN , SUTARMAN , SUHERMAN

2022

Prosiding seminar internasional

Spelling Checking with Deep Learning Model in Analysis of Tweet Data for Word Classification Process

ELVIAWATY MUISA ZAMZAMI , OPIM SALIM SITOMPUL , MAHYUDDIN

2024

Prosiding seminar internasional

Performance of Term Frequency - Inverse Document Frequency and K-Means in Government Service Identification

AMALIA , MAHYUDDIN

2023

Jurnal internasional bereputasi

Twitter data analysis and text normalization in collecting standard word

MAHYUDDIN

2021

Jurnal internasional bereputasi

Investigation of modified friction stir clinching-brazing process of AA2024 Al/AZ31 Mg: metallurgical and mechanical properties

MAHYUDDIN

2023

Jurnal internasional bereputasi

Optimization Model of Integrated Sustainable Forest Management Planning for Hydropower Power Plant

JULI ANTASARI BR SINAGA , TULUS , HERMAN MAWENGGANG , MAHYUDDIN

2022

Book chapter internasional

Understanding Data Toward Going to Data Science - Cybernetics Perspectives in Systems

MAHYUDDIN

2021

Prosiding seminar internasional

Social network extraction based on Web: A review about supervised methods

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2022

Jurnal internasional bereputasi

Computer Science

MAHYUDDIN

2024

Jurnal nasional terakreditasi

Performance Analysis Of The Combination Of Blum Blum Shub And Rc5 Algorithm In Message Security

MAHYUDDIN , ERNA BUDHIARTI NABABAN

2023

Jurnal internasional bereputasi

A new approach to achieve the users'™ habitual opportunities on social media

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2021

Prosiding seminar internasional

Data science: A Review towards the Big Data Problems

MAHYUDDIN

2024

Jurnal nasional terakreditasi

Automating Internet Distribution with Script-Driven Provisioning and Load Balancing Methods

ALDHI ALBADRI , MAHYUDDIN , SUTARMAN

2022

Book chapter internasional

Data Management as Emerging Problems of Data Science - Data Science with Semantic Technologies: Theory, Practice, and Application

MAHYUDDIN

2025
Prosiding seminar internasional

Algorithms and Approaches for the Vehicle Routing Problem with Pickup and Delivery (VRPPD): A Survey

IMAM MUSLEM R , MAHYUDDIN , SUTARMAN , SUHERMAN

2025
Makalah ilmiah

Optimization Of KNN, SVM, And SVM Kernel in Water Potability Prediction with Hyperparameter Approach

MAHYUDDIN

2022
Buku referensi

Memahami Pengembangan Keilmuan sebagai Strategi Mencapai Indikator Kinerja Utama

MAHYUDDIN

2025
Jurnal internasional bereputasi

Mathematical Heuristics

MAHYUDDIN , SAIB SUWILO

2021
Jurnal internasional bereputasi

Sustainable learning environment by mobile-assisted language learning methods on the improvement of productive and receptive foreign language skills: A comparative study for asian universities

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2023
Prosiding seminar internasional

Blockchain: A Background for the Sake of Understanding

FAKHRUDDIN RIZAL BATUBARA , MAHYUDDIN

2023
Book chapter internasional

Data Science with Semantic Technologies - A New Trend and Future Development

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2025
Jurnal internasional bereputasi

A Computational Model of the Transformational Leadership Measurement in the AI Era

MAHYUDDIN

2025
Jurnal nasional terakreditasi

Dari Sintaksis ke Pemahaman : Natural Language Processing (NLP) dalam Filsafat Ilmu Komputer

MAHYUDDIN , Parasian D.P. Silitonga

2022
Jurnal internasional bereputasi

The feature extraction for classifying words on social media with the Naïve Bayes algorithm

MAHYUDDIN , ELVIAWATY MUISA ZAMZAMI , OPIM SALIM SITOMPUL

2021
Jurnal internasional bereputasi

A Comprehensive Thermo-economic Evaluation and Multi-Criteria Optimization of a Combined MCFC/TEG System

FAISAL AMRI , RAHMAD SYAH , MAHYUDDIN , Afshin Davarpanah , Meysam Majidi Nezhad , Mehdi Nesaht

2024

Prosiding seminar internasional

Ontology for Intelligent Disease Diagnosis

MUHAMMAD KHOIRUDDIN HARAHAHAP , MAHYUDDIN , HARMAYANI , NELLY ASTUTI HASIBUAN

2023

Jurnal internasional bereputasi

Fabrication of the novel hybridized AZ31B Mg/CeO₂+ZrO₂ composites via multiple pass friction stir processing

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Jurnal internasional bereputasi

A Hybrid Metaheuristic Model for Efficient Analytical Business Prediction

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Book chapter internasional

Networks and Systems in Cybernetics

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2024

Book chapter internasional

AI and Emerging Technologies

MAHYUDDIN

2021

Jurnal nasional terakreditasi

Development of teaching materials based on learning video using movavi education set at Yayasan Perguruan Tinggi Tunas Karya Batang Kuis

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2026

Prosiding seminar internasional

Form-Centric Interaction (FCI): A Conceptual Model for Extracting Database Schema Elements from GUI Forms

MAHYUDDIN , HERMAN MAWENGGANG , JUANDA HAKIM LUBIS , ELVIAWATY MUISA ZAMZAMI

2024

Prosiding seminar internasional

Enhancing Heart Rate Detection Accuracy Through the Kalman Filter Algorithm

POLTAK SIHOMBING , MAHYUDDIN , MANGASA A.S. MANULLANG

2025

Book chapter internasional

Artificial Intelligence and Digital Forensics

MAHYUDDIN

2025

Jurnal nasional terakreditasi

Evaluating the Impact of Model Complexity on the Accuracy of ID3 and Modified ID3: A Case Study of the Max_Depth Parameter

HERMAN MAWENGGANG , POLTAK SIHOMBING , MAHYUDDIN , ASRIANDA

2023

Jurnal nasional terakreditasi

Pareto Frontier Approach to Determining the Optimal Path on Multi-Objectives

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2021

Jurnal internasional bereputasi

A deep insight into CRISPR/Cas9 application in CAR-T cell-based tumor immunotherapies

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Jurnal internasional bereputasi

A scalable model for Capacitated Vehicle Routing Problem with Pickup and Delivery under dynamic constraints using adaptive heuristic-based ant colony optimization

IMAM MUSLEM R , MAHYUDDIN , SUHERMAN , SUTARMAN

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Jurnal internasional bereputasi

A Hybrid Decision Support Framework Using MEREC-RAFSI With Spherical Fuzzy Numbers for Selecting Banking Financial Aid Recipients

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Prosiding seminar internasional

Constrained multiobjective optimization modeling of industrial waste transport travel routes using Pareto Frontier optimal decision model

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2020
Prosiding seminar internasional

Obtaining Value from the Constraints in Finding User Habitual Words

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2024
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A Taxonomy of Banking Financial Model in Study of Computer Science

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Prosiding seminar internasional

Performance of Term Frequency - Inverse Document Frequency and K-Means in Government Service Identification

AMALIA , MAHYUDDIN

2021
Jurnal internasional bereputasi

Mining of the extracted social network

MAHYUDDIN

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Jurnal internasional bereputasi

Optimization Model of Integrated Sustainable Forest Management Planning for Hydropower Power Plant

HERMAN MAWENGGANG , MAHYUDDIN , JULI ANTASARI SINAGA , TULUS

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

Researches

2023

Semantic Information Retrieval Models

MAHYUDDIN , ELVINA HERAWATI

2019
Ipteks Bagi Masyarakat

PEMANFAATAN E-LEARNING SEBAGAI MEDIA PEMBELAJARAN BERBASIS EDMODO PADA SMA NEGERI 5 PADANG SIDEMPUN

MAHYUDDIN

2021

A Comprehensive Thermo-economic Evaluation and Multi-Criteria Optimization of a Combined MCFC/TEG System

FAISAL AMRI , MAHYUDDIN , RAHMAD SYAH , Afshin Davarpanah , Meysam Majidi Nezhad , Mehdi Nesaht

2022

Penelitian Disertasi Doktor

Meningkatkan Transparansi dan Akuntabilitas: Arsitektur Referensi untuk Sistem e-Government Berbasis Blockchain di Negara Berkembang

FAKHRUDDIN RIZAL BATUBARA , SYAHRIL EFENDI , MAHYUDDIN , POLTAK SIHOMBING

2023

Penelitian Disertasi Doktor

Optimalisasi Pendekatan Kata Terhadap Kebiasaan Yang Dilakukan Pengguna Di Media Sosial

MAHYUDDIN , OPIM SALIM SITOMPUL , ELVIAWATY MUISA ZAMZAMI , ARIF RIDHO LUBIS

Community Services

2025

Ipteks Bagi Kewirausahaan

Asesor Penilaian Kenaikan Jabatan Akademik Dosen Gelombang I 2025

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2023

Ipteks

Optimizing Digital Learning Based Learning as a Learning Media of Today with Enhanced Microsoft Office Softskill at SMAS Husni Thamrin

MAHYUDDIN , SAWALUDDIN , ELVINA HERAWATI , SUTARMAN , ERWIN

2025

Ipteks Bagi Masyarakat

Majelis Pertimbangan, Tim Pengendali Mutu, dan Tim Kalitbang Badan Perencanaan Pembangunan, Penelitian dan Pengembangan Provinsi Sumatera Utara Tahun 2025

MAHYUDDIN

2023

Penelitian Dana Lokal Perguruan Tinggi

Optimisasi Pembelajaran Berdasarkan Digital Learning sebagai Media Pembelajaran Masa Kini Dengan Peningkatan Softskill Microsoft Office di SMAS Husni Thamrin

MAHYUDDIN , ELVINA HERAWATI

2013

Penelitian Fundamental

SISTEM TEMU KEMBALI INFORMASI BERDASARKAN JARINGAN SOSIAL

Intellectual Property Rights

2020

Hak cipta nasional

Karya Ilmiah

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2020

Hak cipta nasional

Penelaahan literatur

MAHYUDDIN

2020

Hak cipta nasional

Merancang pernyataan masalah

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Hak cipta nasional

Cara Menulis Karya Ilmiah

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2020

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Metodologi Riset

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2020

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Extracting keyword for disambiguating name based on the overlap principle

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2020

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Simple search engine model: Selective properties

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2020

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A methodology to extract social network from the Web Snippet

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2020

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Simple search engine model: Adaptive properties

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Teknologi pengetahuan

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