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Publications

2018

Prosiding seminar internasional

Stochastic Optimization in the Power Management of Bottled Water Production Planning

ESTHER SORTA MAULI NABABAN

2024

Jurnal nasional terakreditasi

A Mixed-Integer Programming Approach on Clustering Problems with Segmentation Application Customer

ESTHER SORTA MAULI NABABAN , ELLY ROSMAINI , ARIN ELVIANA

2013

Jurnal nasional

PENERAPAN METODE GOAL PROGRAMMING UNTUK MENGOPTIMALKAN PRODUKSI TEH (Studi Kasus: PT Perkebunan Nusantara IV - Pabrik Teh Bah Butong)

PARAPAT GULTOM , ELIKSON DAMANIK , ESTHER SORTA MAULI NABABAN

2026

Jurnal internasional bereputasi

Vegetation structure of associated flora in *Amorphophallus gigas* Teijsm. & Binn.(Araceae) habitats, North Padang Lawas Regency, North Sumatra

ESTHER SORTA MAULI NABABAN

2026

Jurnal internasional bereputasi

Balancing Sustainability and Decision Maker Preferences in the Palm Oil Supply Chain: A Multi-Criteria Supplier Selection Approach with Analytical Hierarchy Process and Fuzzy

ESTHER SORTA MAULI NABABAN

2026

Jurnal nasional

Kajian Metode Vogel's Approximation Dalam Optimisasi Masalah Transportasi Dengan Variasi Posisi Supply dan Demand

ESTHER SORTA MAULI NABABAN

2026

Jurnal internasional bereputasi

Identification of Key Actors in the Conservation of *Amorphophallus gigas* in North Sumatra Using the MACTOR Method

RIDAHATI RAMBEY , ABDUL RAUF , ESTHER SORTA MAULI NABABAN , RAHMAWATY

2023

Buku referensi

Matematika Ketersediaan Air Pada Kawasan Industri

2026

Jurnal nasional

KAJIAN METODE ELIMINATION ET CHOIX TRADUISANT LA REALITE SEBAGAI PENDUKUNG DALAM PENGAMBILAN KEPUTUSAN

ESTHER SORTA MAULI NABABAN

2020

Jurnal nasional terakreditasi

Active Learning Training with Mathematics Tools at SD HKBPPembangunan 3 Medan

YAN BATARA PUTRA SIRINGORINGO , JAMES PITER MARBUN , NORMALINA NAPITUPULU , ASIMA MANURUNG , ESTHER SORTA MAULI NABABAN

2026

Prosiding seminar internasional

Potential and distribution of Sikkam trees (*Bischofia javanica* Blume) in Sibolangit Nature Park, Sibolangit District, Deli Serdang Regency, North Sumatra Province

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Jurnal internasional bereputasi

Mathematical Modelling of Engineering Problems

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2026

Jurnal nasional

Optimisasi Kelas Tiket pada Satu Rute Penerbangan Domestik

ESTHER SORTA MAULI NABABAN

2026

Jurnal nasional

Optimasi Biaya Pengendalian Persediaan Alat Suntik (Spuit) Dengan Metode Optimisasi Robust Menggunakan Aplikasi Python Di RSUD Dr. Pirngadi

ESTHER SORTA MAULI NABABAN

2023

Jurnal nasional

Application Of Game Theory In Determining Optimum Marketing Strategy In Marketplace

ESTHER SORTA MAULI NABABAN

2025

Jurnal internasional bereputasi

Mathematical Modeling of Ecological Associations and Spatial Distribution of *Nepenthes Tobaica* in Ria-Ria Village, North Sumatra: Implications for Conservation and Management

ESTHER SORTA MAULI NABABAN

2021

Jurnal nasional terakreditasi

The Environmental Impact of Palm Oil: Introduction for Students of Tasmania University, Australia

ESTHER SORTA MAULI NABABAN , DIANA CHALIL , HASANUDDIN , RUDY SOFYAN , TULUS , RIANTRI BR. BARUS S.P. M.SI.

2023

Jurnal nasional

Penerapan Metode Analytical Hierarchy Process Pada Penetapan Pegawai Terbaik PT. Berlian Eka Sakti Tangguh Medan

ESTHER SORTA MAULI NABABAN

2019

Jurnal internasional bereputasi

Chance Constrained Programming for Capacitated Open Vehicle Routing

Problems

ESTHER SORTA MAULI NABABAN

2023

Jurnal nasional terakreditasi

Teori Permainan untuk Mengkaji Strategi Pelanggan Optimal pada Traveloka dan Tiket. com

PARAPAT GULTOM , ESTHER SORTA MAULI NABABAN , MUHAMMAD ROMI SYAHPUTRA , DESY DENADA NATALIA

2017

Jurnal internasional bereputasi

Environmental performance indicators of oleo-chemical based industrial park in indonesia: The conceptual model

ESTHER SORTA MAULI NABABAN

2025

Jurnal internasional bereputasi

Logistics distribution optimization model using multi-depot capacitated vehicle routing problem

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2026

Jurnal nasional

Peramalan Harga Saham PT Merdeka Copper Gold Tbk. dengan Menggunakan Model ARCH-GARCH

ESTHER SORTA MAULI NABABAN

2026

Jurnal nasional terakreditasi

Journal of Environmental and Development Studies

ESTHER SORTA MAULI NABABAN

2024

Jurnal nasional terakreditasi

Penerapan Metode Fuzzy Service Quality dalam Analisis Kepuasan Pelayanan Kesehatan

ESTHER SORTA MAULI NABABAN

2026

Jurnal nasional

The Relationship Of The Completeness Of Filling In Medical Records With The Quality Of Medical Record Documents In Inpamentation Patients At Grandmed Lubuk Pakam Hospital In 2023

ESTHER SORTA MAULI NABABAN

2026

Jurnal nasional terakreditasi

MODEL COX PROPORTIONAL HAZARD DALAM ANALISIS SURVIVAL PENDERITA PENYAKIT SIROSIS HATI

ESTHER SORTA MAULI NABABAN

2022

Jurnal nasional terakreditasi

Location Models with Multy Criterious Networks (Case Study: The Industrial of Rice Processing in The Batubara District)

PARAPAT GULTOM , ESTHER SORTA MAULI NABABAN , JONATHAN LIVIERA MARPAUNG

2023

Jurnal nasional terakreditasi

ANALISIS SENSITIVITAS KELAYAKAN FINANSIAL PRODUKSI KELAPA SAWIT

ESTHER SORTA MAULI NABABAN

2024

Jurnal nasional

Kajian Metode Vogel's Approximation Dalam Optimisasi Masalah Transportasi Dengan Variasi Posisi Supply dan Demand

2023

Jurnal nasional

Analisis Sensitivitas Kelayakan Finansial Produksi Kelapa Sawit

ESTHER SORTA MAULI NABABAN

2018

Prosiding seminar internasional

An Optimization Model for Strategy Decision Support to Select Kind of CPO's Ship

ESTHER SORTA MAULI NABABAN

2022

Jurnal nasional

Analisis Keputusan Dalam Menentukan Penerima Bantuan Lansung Tunai Dana Desa Menggunakan Metode Analytical Hierarchy Process

ESTHER SORTA MAULI NABABAN , TETTI ERINA SIREGAR

2025

Jurnal nasional terakreditasi

Active Role of the Community in Increasing Sustainable Tourism in Sibolangit Village

YAN BATARA PUTRA SIRINGORINGO , ESTHER SORTA MAULI NABABAN , SURYATI SITEPU , CITRA DEWI HASIBUAN , KOKO SUJATMOKO

2013

Jurnal nasional

Penyusunan Rencana Prioritas Pengembangan Kawasan Industri Medan Menggunakan Analytical Hierarchy Process

PARAPAT GULTOM , ESTHER SORTA MAULI NABABAN , BINSAR NOMMENSEN HASIHOLAN NABABAN

2026

Jurnal nasional

Studi tentang Kestabilan Model Sirt-T dengan Kriteria Routh-Hurwitz pada Penyebaran Suatu Penyakit Menular

ESTHER SORTA MAULI NABABAN

2018

Prosiding seminar internasional

An Optimization Model For Strategy Decision Support to Select Kind of CPO's Ship

ESTHER SORTA MAULI NABABAN , HERMAN MAWENGGANG

2026

Jurnal nasional

Robust Regression on Simple Housing Environmental Performance Measurement

ESTHER SORTA MAULI NABABAN

2018

Jurnal internasional bereputasi

Mathematical Methods To Evaluate Ecological Stability of Industrial Park

ASIMA MANURUNG , ESTHER SORTA MAULI NABABAN , PARAPAT GULTOM

2026

Jurnal internasional bereputasi

An Optimization Model For Strategy Decision Support to Select Kind of CPO's Ship

ESTHER SORTA MAULI NABABAN

2018

Prosiding seminar internasional

Determining sea water intrusion in shallow aquifer using Chloride Bicarbonate Ratio Method

ESTHER SORTA MAULI NABABAN

2023

Prosiding seminar internasional

Association of Amorphophallus gigas on rubber land cover in the Sabungan Village, South Labuhanbatu, North Sumatra

ABDUL RAUF , RAHMAWATY , ESTHER SORTA MAULI NABABAN , RIDAHATI RAMBEY

2024

Jurnal nasional

Kajian Metode Penalti Pada Optimisasi Linear Dengan Kendala Nonlinear

ESTHER SORTA MAULI NABABAN , SAWALUDDIN , ZAHEDI , FAJAR ERIN SIDDIK

2014

Jurnal nasional

Penentuan Komoditas Unggulan Pertanian Dengan Metode Analytical Hierarchy Process (AHP)

PARAPAT GULTOM , ESTHER SORTA MAULI NABABAN

2025

Jurnal internasional bereputasi

Mathematical Modeling of Ecological Associations and Spatial Distribution of Nepenthes Tobaica in Ria-Ria Village, North Sumatra: Implications for Conservation and Management

RAHMAWATY , ESTHER SORTA MAULI NABABAN , RIDAHATI RAMBEY

2025

Prosiding seminar internasional

Potential and distribution of Sikkam trees (Bischofia javanica Blume) in Sibolangit Nature Park, Sibolangit District, Deli Serdang Regency, North Sumatra Province

DELVIAN , RIDAHATI RAMBEY , RAHMAWATY , ABDUL RAUF , ESTHER SORTA MAULI NABABAN

2026

Jurnal nasional

Kajian Prioritas Pengembangan Daerah Wisata Pantai Kecamatan Teluk Mengkudu Menggunakan Metode Analytical Hierarchy Process

ESTHER SORTA MAULI NABABAN

2026

Jurnal nasional

STUDI TENTANG KESTABILAN MODEL SIRD-T DENGAN KRITERIA ROUTH-HURWITZ PADA PENYEBARAN SUATU PENYAKIT MENULAR

ESTHER SORTA MAULI NABABAN

2022

Jurnal nasional terakreditasi

OPTIMISASI MULTIOBJEKTIF DALAM PEMBENTUKAN PORTOFOLIO OPTIMAL SAHAM DENGAN PENGUKURAN VALUE AT RISK (VAR)

ESTHER SORTA MAULI NABABAN

2023

Jurnal internasional bereputasi

A Fuzzy Multi-objective Supplier Selection Model in Green Supply Chain Network: Case in Palm Oil Industry

RIZKY HABIBI HARAHAP , ISMAIL HUSEIN , Rizky Habibi , PARAPAT GULTOM , ESTHER SORTA MAULI NABABAN

2023

Buku referensi

Matematika Ketersediaan Air Untuk Kawasan Industri

ESTHER SORTA MAULI NABABAN

2023

Jurnal nasional

Implementasi Penerapan Metode Analytical Hierarchy Process (AHP) dalam Pemilihan Paket Layanan Internet

ESTHER SORTA MAULI NABABAN

2025
Jurnal nasional

Active Role of the Community in Increasing Sustainable Tourism in Sibolangit Village

ESTHER SORTA MAULI NABABAN

2018
Jurnal nasional

Analisis Karakteristik Fungsi Lagrange Dalam Menyelesaikan Permasalahan Optimasi Berkendala

PARAPAT GULTOM, THERESIA M. MANIK, ESTHER SORTA MAULI NABABAN

2013
Jurnal nasional

Perencanaan Pengendalian Persediaan Bahan Baku Dengan Menggunakan Model Economic Order Quantity (Studi Kasus: PT. XYZ)

ESTHER SORTA MAULI NABABAN, PARAPAT GULTOM

2026
Jurnal nasional

Production optimization using fuzzy linear programming method (Case study: UMKM Untir-untir and Raja Manis factory)

ESTHER SORTA MAULI NABABAN

Researches

2023
Penelitian Strategis Nasional

Model Matematika Strategi Konservasi Populasi Amorphophallus sp di Alam Liar

RIDAHATI RAMBEY, ESTHER SORTA MAULI NABABAN

2024
Ipteks Bagi Wilayah

Model Matematika Konservasi Nepenthes tobaica di Sumatera Utara

RIDAHATI RAMBEY, ESTHER SORTA MAULI NABABAN, MUHAMMAD ROMI SYAHPUTRA, OLOAN FERNANDO PURBA

Community Services

2019 Program Pengenalan "Sawit dan Lingkungan Hidup" bagi Mahasiswa Universitas Tasmania, Australia

RUDY SOFYAN, DIANA CHALIL, TULUS, ESTHER SORTA MAULI NABABAN, HASANUDDIN, RIANTRI BR. BARUS S.P. M.SI.

2024
Ipteks Bagi Masyarakat

Eksplorasi dan Pengembangan Potensi Wisata Lokal: Peran Aktif Masyarakat dalam Peningkatan Pariwisata Berkelanjutan di Desa Sibolangit

SURYATI SITEPU, ESTHER SORTA MAULI NABABAN, YAN BATARA PUTRA SIRINGORINGO, CITRA DEWI HASIBUAN

2020
Ipteks Bagi Masyarakat

Implementasi Media Teknologi Informasi Pada Publikasi dan Promosi Ekowisata Mangrove Desa Sisarahili Teluk Siabang

NELSON M SIAHAAN, ESTHER SORTA MAULI NABABAN, AGUS SALIM HARAHAP

Intellectual Property Rights

2026
Hak cipta nasional

Matematika Ketersediaan Air Pada Kawasan Industri

ESTHER SORTA MAULI NABABAN

2026
Patent nasional

Model Konservasi Amorphophallus gigas Teijsm. & Binn. di Sumatera Utara

ABDUL RAUF , ESTHER SORTA MAULI NABABAN , RIDAHATI RAMBEY , RAHMAWATY
