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Dr. Ir. Nurhayati, M.T. was born in Medan on May 14, 1968. Currently, she serves as a lecturer in Industry at Universitas Sumatera Utara. She completed a Master's Program in Industrial Mechanical Engineering at Institut Teknologi Bandung (ITB) in 1999.

Publications

2026
Jurnal nasional terakreditasi

Optimization of Fiber to the Home Network Using a Genetic Algorithm in Medan

NURHAYATI , IR H NAZARUDDIN MATONDANG MTPHD

2025
Prosiding seminar internasional

The eucalyptus footprint: tracing the economic and ecological impacts of sustainable plantations

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2025
Jurnal internasional bereputasi

Optimization of eucalyptus replanting schedules: A dynamic model for efficient land use and workforce allocation

NURHAYATI , AULIA ISHAK

2025
Jurnal nasional terakreditasi

Sharing Session Pentahelix Kepada Pelaku UMKM di Empat Kota Untuk Meningkatkan Nilai Jual yang Berdaya Saing

RAHMAWATI , NURHAYATI , SUCIPTO BASUKI , RAKA KUSUMA NUGRAHA , WINANTI , FRANCISCA SESTRI GOESTJAHJANTI , RAHMAWATI , BONAR BANGUN JEPPRI NAPITUPULU

2025
Prosiding seminar internasional

sustainable replanting practices to meet increasing palm oil demand in Indonesia and Malaysia

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Prosiding seminar internasional

Redefining food processing: Smart innovations for efficiency and eco-friendly production

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Prosiding seminar internasional

Prediction of Container Handling Using Backpropagation Neural Network Approach

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2025
Prosiding seminar internasional

Forecasting Demand for Donuts Using a Machine Learning Approach

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2025
Prosiding seminar internasional

Integrating natural resources and technological innovation for sustainable growth

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2025
Prosiding seminar internasional

Sustainable forestry: The dual effects of eucalyptus plantations on economy and ecology

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2024
Prosiding seminar internasional

Replanting Eucalyptus as a sustainable solution for pulp industry: A review

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2023
Prosiding seminar internasional

An Improved Genetic Algorithm Optimization by Driver Preference Route Mining for Minimizing Actual Travel Time

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2023
Jurnal internasional bereputasi

Eucalyptus replanting model through system dynamic method a solution to current environmental pollution

NURHAYATI , MEILITA TRYANA SEMBIRING , AULIA ISHAK

2023
Prosiding seminar internasional

A review of eucalyptus growth modeling for forest resource management

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2023
Prosiding seminar internasional

Hybrid simulation of supply chain : A review

HUMALA L NAPITUPULU , NURHAYATI

2023
Prosiding seminar internasional

Implementation of artificial intelligence in improving the quality of service system in telecommunications industry

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2023
Prosiding seminar internasional

Hybrid simulation in supply chain management

NURHAYATI , HUMALA L NAPITUPULU

2023
Prosiding seminar internasional

Hybrid-based approach to support decision forest management: A review

MEILITA TRYANA SEMBIRING , NURHAYATI , HUMALA L NAPITUPULU , AULIA ISHAK

2023
Buku referensi

BUKU AJAR OTOMASI PRODUKSI Sebuah Pengantar

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2023
Buku referensi

Proses manufaktur pada beberapa UKM jilid 2

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2023
Buku referensi

Proses manufaktur pada beberapa UKM jilid 1

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2023
Prosiding seminar internasional

2D modelling and simulation using discrete event simulation and agent-based simulation for pesticide manufacturing

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2023
Prosiding seminar internasional

Sustainable Development Goals and Green Sustainable Supply Chains: a Review

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Prosiding seminar internasional

Analysis of Eucalyptus Supply Chain Methods Based on Influencing Factors: A Review

NURHAYATI , HUMALA L NAPITUPULU

2022
Prosiding seminar internasional

Designing eucalyptus replanting model using hybrid simulation method : a review

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2022
Prosiding seminar internasional

Simulation model in determining forestry and plantation circumstances

AULIA ISHAK , NURHAYATI , HUMALA L NAPITUPULU

2022
Prosiding seminar internasional

Fulfilling Eucalyptus raw materials for pulp and paper production plants

HUMALA L NAPITUPULU , AULIA ISHAK , NURHAYATI

2022
Buku referensi

Buku ajar proses manufaktur : sebuah pengantar jilid 2

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Buku ajar pengetahuan bahan : sebuah pengantar jilid 1

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2022
Buku referensi

Buku ajar analisis biaya : sebuah pengantar jilid 1

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Buku referensi

Buku ajar pengetahuan bahan : sebuah pengantar jilid 2

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2022
Prosiding seminar internasional

Eucalyptus replanting model representation for sustainable productivity: A review

NURHAYATI , MEILITA TRYANA SEMBIRING , AULIA ISHAK , HUMALA L NAPITUPULU

2022
Jurnal internasional bereputasi

Sustainable supply chain model by using digital partial least square method

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2022
Jurnal internasional bereputasi

Analysis of Drivers and Barriers The Implementation of Sustainability Supply Chain Management (SSCM) in PT. ABC

NURHAYATI

2022
Jurnal internasional bereputasi

Distribution improvement in achieving customer satisfaction

IR. UKURTA TARIGAN, MT , NURHAYATI

2022
Jurnal internasional bereputasi

Sustainable Manufacturing that is Environmentally Friendly

ELISABETH GINTING , NURHAYATI , MANGARA M TAMBUNAN

2021
Jurnal internasional bereputasi

Eucalyptus plantation and its integrated supply chain in pulp and paper mill

NURHAYATI

2021
Artikel ilmiah

Pembuatan Bahan Olahan Berbahan Baku Udang Untuk Peningkatan Kesejahteraan Masyarakat

NURHAYATI

2021
Prosiding seminar internasional

A review: hybrid simulation in forestry supply chain

MEILITA TRYANA SEMBIRING , HUMALA L NAPITUPULU , NURHAYATI , AULIA ISHAK

2021
Buku referensi

Buku ajar sustainable supply chain management (SSCM)

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2021
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Buku ajar desain model sustainable replanting eucalyptus guna menjamin supply material

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2021
Buku lainnya

Buku ajar analisis biaya : sebuah pengantar

NURHAYATI

2020
Prosiding seminar internasional

Optimization of plantation in various countries using a dynamic model approach

NURHAYATI , HUMALA L NAPITUPULU , MEILITA TRYANA SEMBIRING , AULIA ISHAK

2020
Buku lainnya

Buku ajar manajemen proyek sebagai panduan jilid 2

NURHAYATI

2020

Prosiding seminar internasional

Simulation Model of Replanting Eucalyptus : A Review

HUMALA L NAPITUPULU , NURHAYATI , MEILITA TRYANA SEMBIRING

2020
Buku referensi

Buku Ajar Proses Manufaktur Sebuah Pengantar Jilid 1

NURHAYATI

2020
Prosiding seminar internasional

A review of sustainable replanting eucalyptus: Higher sustainable productivity

NURHAYATI , HUMALA L NAPITUPULU , MEILITA TRYANA SEMBIRING

2020
Buku referensi

Manajemen Proyek Sebagai Panduan Jilid 1

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2020
Jurnal internasional bereputasi

Optimization of Durian Supply Chain with Dynamic System Simulation

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2020
Jurnal internasional bereputasi

Developing Multi-Agent Systems Using Agent-Based and Geographic Information System Simulation

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Artikel ilmiah

Optimization of Durian Supply Chain with Dynamic System Simulation

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2020
Jurnal internasional bereputasi

Analysing Company's Performance by Using Sustainable Supply Chain Management (SSCM)

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2020
Jurnal internasional bereputasi

The strategy improvement of the engine maintenance

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2020
Jurnal internasional bereputasi

Determination Of Priority Criteria Which Influences CPO Factory Productivity

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2020
Jurnal internasional bereputasi

Collaboration of sustainability and digital supply chain management of achieving a successful company

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2020
Jurnal internasional bereputasi

Scheduling evaluation in construction projects using the critical chainproject management method

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2018
Prosiding seminar internasional

Fulfillment of Customer Orders with Distribution Improvement

IR. UKURTA TARIGAN, MT , NURHAYATI

2018
Prosiding seminar internasional

Supplier selection in rubber industry using analytic network process (ANP) and technique for order preference methods by similarity to ideal solution

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2018
Prosiding seminar internasional

Determination of optimum time of replacement with age replacement model

NURHAYATI , MANGARA M TAMBUNAN

2018
Prosiding seminar internasional

Human error analysis on production process of door products with SHERPA and HEART method

MANGARA M TAMBUNAN , NURHAYATI

2018
Prosiding seminar internasional

The spare part maintenance of cake breaker conveyor with reliability centered spares method

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2018
Prosiding seminar internasional

Analysis of company operating feasibility using Energy Productivity Ratio (EPR)

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2018
Prosiding seminar internasional

Work environment engineering using HIRARC and 5S method

IR H NAZARUDDIN MATONDANG MTPHD , BUCHARI , NURHAYATI

2018
Prosiding seminar internasional

Application of reliability engineering method in sugar refinery industry

ELISABETH GINTING , NURHAYATI

2018
Prosiding seminar internasional

Machine Maintenance Scheduling with Reliability Engineering Method and Maintenance Value Stream Mapping

NURHAYATI , AINI HARIYANI NASUTION

2017
Prosiding seminar internasional

Reliability analysis of component of affination centrifugal 1 machine by using reliability engineering

ELISABETH GINTING , NURHAYATI

2017
Prosiding seminar internasional

Design of preventive maintenance system using the reliability engineering and maintenance value stream mapping methods in PT. XYZ

NURHAYATI , NISMAH PANJAITAN

2017
Prosiding seminar internasional

The engine maintenance scheduling by using reliability centered maintenance

method and the identification of 5S application in PT. XTZ

AGAVERINA SARAGIH , NURHAYATI , NISMAH PANJAITAN

0202

Jurnal internasional bereputasi

Network Distribution in Processing Customer Order

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Researches

2020

Penelitian Fundamental

PENINGKATAN KUALITAS DARI PRODUK UMKM DI SEKTOR PANGAN OLAHAN

NURHAYATI , HUMALA L NAPITUPULU

2020

DESAIN MODEL SUSTAINABLE REPLANTING EUCALYPTUS GUNA MENJAMIN SUPPLY MATERIAL DI PT. TOBA PULP LESTARI, Tbk

NURHAYATI , HUMALA L NAPITUPULU , AYU KHAIRANI , WIRA SOPYANA SARAH

2019

Ipteks

DESAIN MODEL SUSTAINABLE SUPPLY CHAIN MANAGEMENT (MANAJEMEN RANTAI PASOK BERKELANJUTAN) DI KEK SEI MANGKEI

ELISABETH GINTING , MANGARA M TAMBUNAN , NURHAYATI

2019

Penelitian Fundamental

PENILAIAN TINGKAT KEHANDALAN SISTEM KOMPLEKS DENGAN APLIKASI SIMULASI

NURHAYATI , HUMALA L NAPITUPULU

2018

Penelitian Unggulan Perguruan Tinggi

Pemanfaatan Syngas Pirolisis Biomassa melalui Reformer untuk Solid Oxide Fuel Cell (SOFC) Sebagai Penghasil Energi Listrik

NURHAYATI , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR

Community Services

2024

Ipteks Bagi Masyarakat

WORKSHOP LABORATORIUM PROSES MANUFAKTUR UNTUK SISWA AL-FITYAN

AULIA ISHAK , NURHAYATI , RAHMI MEILINA SARI

2023

PENDAYAGUNAAN TEKNOLOGI DEMI MEREDUKSI BIAYA PAKAN TERNAK

INDAH RIZKYA TARIGAN , ERWIN , NURHAYATI , RAHMI MEILINA SARI

2018

Vertiminaponik Sebagai Solusi Pemenuhaan Kebutuhan Ikan dan Sayur Pada Lahan Kritis

MANGARA M TAMBUNAN , EMALISA , NURHAYATI

2017

Ipteks Bagi Masyarakat

IbM Kelompok UKM Keripik Desa Bingkat Kec. Pegajahan Kab. Serdang Bedaga

Intellectual Property Rights

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Hak cipta nasional
Buku Ajar Prinsip, Teknologi, Dan Aplikasi Proses Manufaktur Dalam Industri Modern
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BUKU AJAR PROSES PRODUKSI UMKM : Dari Bahan Mentah ke Produk Jad
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Buku Ajar Panduan Komprehensif Manajemen Proyek
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BUKU AJAR EKSPLORASI KARAKTERISTIK MATERIAL, PROSES, DAN APLIKASINYA
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PROSES MANUFAKTUR DI BERBAGAI UKM
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BUKU AJAR MEMAHAMI SISTEM LINGKUNGAN INDUSTRI
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Buku Ajar Otomasi Produksi Sebuah Pengantar

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Energi Dan Ekosistem Industri

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Air Dan Ekosistem Industri

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Konsep Produk Bersih

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Green Manufacturing

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Material Flow Analysis

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Sistem Manajemen Lingkungan

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Inventory Costing

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Pendekatan Bottom Up dan Top Down

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Transfer Pricing

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Pricing Decision

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Organisation Break Down Structure

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Pengambilan Keputusan Terhadap Analisis Biaya

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Biaya Berdasarkan Pesanan (Job Costing)

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Pengantar Job Costing

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Sensor Pada Proses Manufaktur

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Paten nasional

Sistem Pirolisis Biomassa Padat Untuk Menghasilkan Bioarang, Gas Sintetis, dan Asap Cair (Bio-Oil) Sebagai Bahan Bakar

NURHAYATI , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR

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Manajemen Resiko Proyek

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Pengantar Estimasi Biaya Dan Proyek

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Pemilihan Bahan Untuk Produk

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Activity Based Costing And Activity Based Management

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Life Cycle Assessment Sistem Lingkungan Industri Teknik Industri Universitas Sumatera Utara

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BUKU AJAR PROSES MANUFAKTUR PADA BEBERAPA UKM (Jilid 1)

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Aspek Kompetitif Produk

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Buku Ajar Sustainable Supply Chain Management (SSCM)

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Buku Ajar Desain Model Sustainable Replanting Eucalyptus Guna Menjamin Supply Material

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Buku Ajar Pengetahuan Bahan Sebuah Pengantar Jilid 2

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