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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

2023

Prosiding seminar internasional

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

NURHAYATI

2022

Jurnal internasional bereputasi

Sustainable Manufacturing that is Environmentally Friendly

ELISABETH GINTING , NURHAYATI , MANGARA M TAMBUNAN

2022

Buku referensi

Buku ajar proses manufaktur : sebuah pengantar jilid 2

NURHAYATI

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

2023

Prosiding seminar internasional

Design of Chicken Processing Tools using QFD (Quality Function Deployment) and Anthropometry Approaches to Improve Chicken Halal Integrity

CHAIRUL SYAH , SARI WAHYUNI , DINI WAHYUNI , NURHAYATI , NISMAH PANJAITAN

2025

Prosiding seminar internasional

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

NURHAYATI

2018

Prosiding seminar internasional

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

NURHAYATI

2023

Prosiding seminar internasional

Hybrid simulation of supply chain : A review

HUMALA L NAPITUPULU , NURHAYATI

2023

Prosiding seminar internasional

A review of eucalyptus growth modeling for forest resource management

NURHAYATI

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

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

NURHAYATI , AINI HARIYANI NASUTION

2025

Prosiding seminar internasional

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

NURHAYATI

2023

Prosiding seminar internasional

Hybrid simulation in supply chain management

NURHAYATI , HUMALA L NAPITUPULU

2020

Buku lainnya

Buku ajar manajemen proyek sebagai panduan jilid 2

NURHAYATI

2025

Jurnal nasional terakreditasi

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

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

2023

Prosiding seminar internasional

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

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

2019

Artikel ilmiah

Application of technology for improving community economic welfare through fish cultivation in the bioflok pool

DINI WAHYUNI , NURHAYATI

2022

Prosiding seminar internasional

Designing eucalyptus replanting model using hybrid simulation method : a review

NURHAYATI

2021
Buku lainnya

Buku ajar analisis biaya : sebuah pengantar

NURHAYATI

2025
Prosiding seminar internasional

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

NURHAYATI

2020
Jurnal internasional bereputasi

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

NURHAYATI

2020
Buku referensi

Buku Ajar Proses Manufaktur Sebuah Pengantar Jilid 1

NURHAYATI

2021
Artikel ilmiah

Pembuatan Bahan Olahan Berbahan Baku Udang Untuk Peningkatan Kesejahteraan Masyarakat

NURHAYATI

0202
Jurnal internasional bereputasi

Network Distribution in Processing Customer Order

NURHAYATI

2022
Buku referensi

Buku ajar pengetahuan bahan : sebuah pengantar jilid 2

NURHAYATI

2020
Artikel ilmiah

Optimization of Durian Supply Chain with Dynamic System Simulation

NURHAYATI

2020
Jurnal internasional bereputasi

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

NURHAYATI

2017
Prosiding seminar internasional

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

ELISABETH GINTING , NURHAYATI

2020
Jurnal internasional bereputasi

Determination Of Priority Criteria Which Influences CPO Factory Productivity

NURHAYATI

2018
Prosiding seminar internasional

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

NURHAYATI

2021
Buku referensi

Buku ajar sustainable supply chain management (SSCM)

NURHAYATI

2025
Monograf

Buku Monograf Teknologi Digital dan AI dalam Pengelolaan Perkebunan Eucalyptus sebagai Bahan Baku Pabrik Bubur Kertas

JULIZA HIDAYATI , TUTI SARMA SINAGA , NURHAYATI , DELIMA SITANGGANG

2020
Prosiding seminar internasional

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

NURHAYATI

2017
Prosiding seminar internasional

Increasing service systems in network distribution

TUTI SARMA SINAGA , NURHAYATI

2022
Jurnal internasional bereputasi

Distribution improvement in achieving customer satisfaction

IR. UKURTA TARIGAN, MT , NURHAYATI

2021
Jurnal internasional bereputasi

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

NURHAYATI

2023
Prosiding seminar internasional

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

NURHAYATI

2022
Jurnal internasional bereputasi

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

NURHAYATI

2025
Jurnal internasional bereputasi

Eucalyptus replanting a comprehensive bibliometric review of research trends

NURHAYATI , LISTIANI NURUL HUDA

2020
Jurnal internasional bereputasi

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

NURHAYATI

2025
Prosiding seminar internasional

Forecasting Demand for Donuts Using a Machine Learning Approach

NURHAYATI

2023
Buku referensi

BUKU AJAR OTOMASI PRODUKSI Sebuah Pengantar

NURHAYATI

2020
Jurnal internasional bereputasi

Scheduling evaluation in construction projects using the critical chain project management method

NURHAYATI

2020

Buku referensi

Manajemen Proyek Sebagai Panduan Jilid 1

NURHAYATI

2025

Prosiding seminar internasional

Prediction of Container Handling Using Backpropagation Neural Network Approach

NURHAYATI

2022

Jurnal internasional bereputasi

Sustainable supply chain model by using digital partial least square method

NURHAYATI

2023

Prosiding seminar internasional

Sustainable Development Goals and Green Sustainable Supply Chains: a Review

NURHAYATI

2017

Prosiding seminar internasional

The engine maintenance scheduling by using reliability centered maintenance method and the identification of 5S application in PT. XYZ

NURHAYATI , NISMAH PANJAITAN

2025

Jurnal internasional bereputasi

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

NURHAYATI , AULIA ISHAK

2022

Buku referensi

Buku ajar pengetahuan bahan : sebuah pengantar jilid 1

NURHAYATI

2018

Prosiding seminar internasional

Application of reliability engineering method in sugar refinery industry

ELISABETH GINTING , NURHAYATI

2024

Prosiding seminar internasional

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

NURHAYATI

2022

Buku referensi

Buku ajar analisis biaya : sebuah pengantar jilid 1

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

NURHAYATI

2022

Prosiding seminar internasional

Fulfilling Eucalyptus raw materials for pulp and paper production plants

HUMALA L NAPITUPULU , AULIA ISHAK , NURHAYATI

2023

Prosiding seminar internasional

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

NURHAYATI , HUMALA L NAPITUPULU

2018

Prosiding seminar internasional

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

NURHAYATI , SANIA ANGELITA , NISMAH PANJAITAN

2020

Jurnal internasional bereputasi

The strategy improvement of the engine maintenance

NURHAYATI

2018

Prosiding seminar internasional

Fulfillment of Customer Orders with Distribution Improvement

IR. UKURTA TARIGAN, MT , NURHAYATI

2025

Prosiding seminar internasional

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

NURHAYATI

2018

Prosiding seminar internasional

Determination of optimum time of replacement with age replacement model

NURHAYATI , MANGARA M TAMBUNAN

2018

Prosiding seminar internasional

The engine maintenance scheduling by using reliability centered maintenance method and the identification of 5S application in PT. XYZ

NISMAH PANJAITAN , NURHAYATI , AGNI FITALOKA SARAGIH

2021

Buku referensi

Buku ajar desain model sustainable replanting eucalyptus guna menjamin supply material

NURHAYATI

2023

Buku referensi

Proses manufaktur pada beberapa UKM jilid 2

NURHAYATI

2023

Buku referensi

Proses manufaktur pada beberapa UKM jilid 1

NURHAYATI

2025

Prosiding seminar internasional

Integrating natural resources and technological innovation for sustainable growth

NURHAYATI

2022

Prosiding seminar internasional

Simulation model in determining forestry and plantation circumstances

AULIA ISHAK , NURHAYATI , HUMALA L NAPITUPULU

2020

Jurnal internasional bereputasi

Optimization of Durian Supply Chain with Dynamic System Simulation

NURHAYATI

Researches

2020

Penelitian Fundamental

PENINGKATAN KUALITAS DARI PRODUK UMKM DI SEKTOR PANGAN OLAHAN

NURHAYATI , HUMALA L NAPITUPULU

2019

Pemodelan Rantai Pasok Daging Sapi dalam Menjamin Kehalalan Produk

DINI WAHYUNI , NURHAYATI

2019

Ipteks

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

ELISABETH GINTING , MANGARA M TAMBUNAN , NURHAYATI

2020

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

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

2019

Penelitian Fundamental

PENILAIAN TINGKAT KEHANDALAN SISTEM KOMPLEKS DENGAN APLIKASI SIMULASI

NURHAYATI , HUMALA L NAPITUPULU

2025

Penelitian Fundamental

Integrasi Sistem Penunjang Keputusan Berbasis AI untuk Penjadwalan Penanaman Kembali Tanaman Eucalyptus

TUTI SARMA SINAGA , NURHAYATI

Community Services

2018

Pengembangan UKM kentang "Dari Rumah" Kabupaten Deli serdang Sumatera Utara

NISMAH PANJAITAN , DINI WAHYUNI , NURHAYATI

2020

Ipteks Bagi Masyarakat

Pembuatan bahan olahan berbahan baku udang untuk peningkatan kesejahteraan masyarakat

DINI WAHYUNI , NURHAYATI

2025

Penelitian Unggulan Perguruan Tinggi

Pendayagunaan Teknologi untuk Efisiensi Produksi pada UKM Meubel Amir Kusein

2018

Vertiminaponik Sebagai Solusi Pemenuhaan Kebutuhan Ikan dan Sayur Pada Lahan Kritis

MANGARA M TAMBUNAN , EMALISA , NURHAYATI

2019

Aplikasi teknologi untuk peningkatan kesejahteraan ekonomi masyarakat melalui budidaya ikan pada kolam bioflok

DINI WAHYUNI , NURHAYATI

Intellectual Property Rights

2020

Hak cipta nasional

Pengantar Job Costing

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2020

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BUKU AJAR SISTEM LINGKUNGAN INDUSTRI: Konsep, Implementasi, dan Inovasi Berkelanjutan Jilid 2

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Hak cipta nasional

Penjadwalan Sumber Daya

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Transfer Pricing

NURHAYATI

2020

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BUKU AJAR MEMAHAMI SISTEM LINGKUNGAN INDUSTRI

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Hak cipta nasional

Metalisasi

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Mikro Manufaktur

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BUKU AJAR EKSPLORASI KARAKTERISTIK MATERIAL, PROSES, DAN APLIKASINYA

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ISO 14000

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2020

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Material Flow Analysis

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2020

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Sistem Manajemen Lingkungan

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2020

Hak cipta nasional

Flexible Manufacturing System

NURHAYATI

2020

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MENGENAL PROSES PRODUKSI DI BERBAGAI BISNIS UMKM

TUTI SARMA SINAGA , NURHAYATI

2020

Hak cipta nasional

Activity Based Costing And Activity Based Management

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2020

Hak cipta nasional

Sekilas Life Cycle Assessment

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2020

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BUKU AJAR PROSES PRODUKSI UMKM : Dari Bahan Mentah ke Produk Jad

NURHAYATI

2020

Hak cipta nasional

Pengantar Perilaku Biaya

NURHAYATI

2020

Hak cipta nasional

Buku Ajar Prinsip, Teknologi, Dan Aplikasi Proses Manufaktur Dalam Industri Modern

NURHAYATI

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Mengembangkan Rencana Proyek

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Sensor Pada Proses Manufaktur

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Buku Ajar Pengetahuan Bahan Sebuah Pengantar Jilid 1

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Inventory Costing

NURHAYATI

2020

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Pendekatan Bottom Up dan Top Down

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2020
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Buku Ajar Proses Manufaktur Sebuah Pengantar Jilid 1

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2020
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BUKU AJAR SISTEM LINGKUNGAN INDUSTRI: Konsep, Implementasi, dan Inovasi Berkelanjutan Jilid 1

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Hak cipta nasional

Buku Ajar Manajemen Proyek Sebagai Panduan Jilid 2

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Buku Ajar Pengetahuan Bahan Sebuah Pengantar Jilid 2

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Konsep Produk Bersih

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2020
Hak cipta nasional

Buku Ajar Proses Manufaktur Sebuah Pengantar Jilid 2

NURHAYATI

2020
Hak cipta nasional

BUKU AJAR PROSES MANUFAKTUR PADA BEBERAPA UKM (Jilid 1)

NURHAYATI

2020
Hak cipta nasional

Life Cycle Assessment Sistem Lingkungan Industri Teknik Industri Universitas Sumatera Utara

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2020
Hak cipta nasional

Proses Manufaktur pada UKM

NURHAYATI

2020
Hak cipta nasional

Manajemen Resiko Proyek

NURHAYATI

2020
Hak cipta nasional

Buku Ajar Sustainable Supply Chain Management (SSCM)

NURHAYATI

2020
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Otomasi Proses Manufaktur

NURHAYATI

2020
Hak cipta nasional

Organisation Break Down Structure

NURHAYATI

2020
Hak cipta nasional

Air Dan Ekosistem Industri

NURHAYATI

2020
Hak cipta nasional

Pengantar Estimasi Biaya Dan Proyek

NURHAYATI

2020
Hak cipta nasional

Buku Ajar Panduan Komprehensif Manajemen Proyek

NURHAYATI

2020
Hak cipta nasional

Pengabdian Masyarakat UKM Amir Kusen

NURHAYATI , DINI WAHYUNI , TUTI SARMA SINAGA , HARDANDI , FAQIHATUN NAZHIFAH BATUBARA , PUJA RAHMADINA MAURAXA , NISMAH PANJAITAN

2020
Hak cipta nasional

Proses manufaktur pada beberapa UKM jilid 1

NURHAYATI

2020
Hak cipta nasional

Buku Ajar Desain Model Sustainable Replanting Eucalyptus Guna Menjamin Supply Material

NURHAYATI

2020
Hak cipta nasional

Biaya Berdasarkan Pesanan (Job Costing)

NURHAYATI

2020
Hak cipta nasional

Teknologi Sensor

NURHAYATI

2020
Hak cipta nasional

PROSES MANUFAKTUR DI BERBAGAI UKM

NURHAYATI

2020
Hak cipta nasional

Buku Ajar Analisis Biaya Sebuah Pengantar Jilid 2

NURHAYATI

2020
Hak cipta nasional

Pengambilan Keputusan Terhadap Analisis Biaya

NURHAYATI

2020
Hak cipta nasional

Pricing Decision

NURHAYATI

2020
Hak cipta nasional

BUKU AJAR PENGKAJIAN MATERIAL, SIFAT, PROSES DAN APLIKASI DALAM INDUSTRI

NURHAYATI

2020
Hak cipta nasional

Mikro Manufaktur

NURHAYATI

2020
Hak cipta nasional

Penganggaran Modal

NURHAYATI

2020
Hak cipta nasional

BUKU MONOGRAF TEKNOLOGI DIGITAL DAN AI DALAM PENGELOLAAN PERKEBUNAN EUCALYPTUS SEBAGAI BAHAN BAKU PABRIK BUBUR KERTAS

JULIZA HIDAYATI , TUTI SARMA SINAGA , NURHAYATI , DELIMA SITANGGANG

2020
Hak cipta nasional

Buku Ajar Analisis Biaya Sebuah Pengantar Jilid 1

NURHAYATI

2020
Hak cipta nasional

Ruang Lingkup Proyek

NURHAYATI

2020
Hak cipta nasional

Pengantar Adaptive Control

NURHAYATI

2020
Hak cipta nasional

Pemilihan Bahan Untuk Produk

NURHAYATI

2020
Hak cipta nasional

Energi Dan Ekosistem Industri

NURHAYATI

2020
Hak cipta nasional

Buku Ajar Manajemen Proyek Sebagai Panduan Jilid 1

NURHAYATI

2020
Hak cipta nasional

Pembangunan Kota Berkelanjutan

NURHAYATI

2020
Hak cipta nasional

Buku Ajar Otomasi Produksi Sebuah Pengantar

NURHAYATI

2020
Hak cipta nasional

Aspek Kompetitif Produk

NURHAYATI

2020
Hak cipta nasional

Resiko Proyek

NURHAYATI

2020
Hak cipta nasional

Green Manufacturing

NURHAYATI
