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*Prof. Ir. Aulia Ishak, S.T., M.T., Ph.D., IPM was born in Medan on November 20, 1967, and is a lecturer in the discipline of Manufacturing Technology at the Universitas Sumatera Utara. In 2018, he completed his doctoral program in the Mechanical Engineering Study Program of the Faculty of Mechanical Engineering at the University of Science Malaysia.*

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## Publications

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2026

Prosiding seminar internasional

### **Employee selection automation using decision support system: An approach of neural networks**

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2025

Jurnal nasional terakreditasi

### **SME Center Development Strategy Langkat Furniture in an Effort to Increase Competitiveness with SWOT Analysis and QSPM**

ANIZAR , ABDUL JAMINSON , AULIA ISHAK

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2024

Jurnal nasional terakreditasi

### **Life Cycle Analysis Study of Plastic Flower Pot Products**

KHAWARITA SIREGAR , AULIA ISHAK

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2024

Jurnal internasional

### **Empowering Organizational Learning with Philosophical Tools of Lean Six Sigma in Service Sectors**

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2024

Prosiding seminar internasional

### **Prediction of Cutting Forces for Machine Tools by Neural Networks**

Pramodkumar S. Kataraki , Isam Qasem , M. Mazlan , Ahmed A. Hussien , and Ayub Ahmed Janvekar , Ahmad Faiz Zubair , AULIA ISHAK

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2023

Prosiding seminar nasional

### **Perencanaan Sistem Pemeliharaan Mesin Screw Press Menggunakan Metode Reliability Centered Maintenance (Studi Kasus pada PMKS)**

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2023

Jurnal internasional bereputasi

### **A Technological Capability Assessment of Company in the Crude Palm Oil Industry in Indonesia**

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## **A Technological Capability Assessment of Company in the Crude Palm Oil Industry in Indonesia**

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### **Firefly algorithm in optimization of milling machining parameters and its comparisons with other algorithms**

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Jurnal nasional terakreditasi

### **Analisis Perbaikan dalam Stasiun Dryer Press menggunakan metode 5S Pada PT. Pundi Uniwood Industry**

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2020

Prosiding seminar internasional

### **Determining the Number of Optimum Servers in The XYZ Restaurants Queue System with Queueing Theory**

KHAWARITA SIREGAR , AULIA ISHAK

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### **Analysis of Fuzzy AHP-TOPSIS Methods in Multi Criteria Decision Making: Literature Review**

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### **Planning of Master Production Schedule at PT Semen Padang**

AULIA ISHAK , IR. UKURTA TARIGAN, MT

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### **Decision Support System of Family Karaoke Selection with Analytical Hierarchy Process Method using Super Decisions Software**

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### **The Removal of Mixed Tar in Biomass Fuel Gas through the Thermal and Catalytic Treatment Methods: Review**

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### **Distribution Testing on The Average Room Occupancy Rate of Hotels By Province in 2013-2017**

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### **Tension Fatigue Behaviour of Woven Bamboo and Glass Fiber Reinforced Epoxy Hybrid Composites**

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### **Graph Based Method for Lathe Machining Part Model**

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### **Quality Control Analysis With Lean Six Sigma Approach and Weighted Product**

## **Method (Case Study: XYZ Company)**

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### **Synthesis of Calcite-Zincite Nano Composite Materials using Sol-gel Auto Combustion Method**

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### **Quality Control Analysis on Poly Cups Products Using Six Sigma Approach at PT "X"**

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### **Dry Turning of Hard 2379 Steel Using a ZTA5Ce0.7La Ceramic Cutting Insert: A Study**

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### **Clasification of Heart Disease using Decision Tree Algorithm**

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### **Evaluation and Selection of E-commerce Service Quality Using Fuzzy AHP Method**

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### **Bolt Product Quality Control Using Six Sigma DMAIC Method (Case Study: PT XYZ Company)**

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### **Beauty Clinic Selection Based on Service Quality Using AHP (Analytical Hierarchy Process) Method in Industrial Engineering Department**

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### **Decision Support System for Suppliers Household Appliance with Analytical Hierarchy Process Method Using Super Decisions Software**

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### **Analysis of Crude Palm Oil Production Yield Results at AA Company**

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### **Production Line Simulation In Vise Using The Flexim Application**

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## **Determining the Number of Optimum Servers in The XYZ Restaurant Queue System with Queuing Theory**

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## **Dry turning of hard 2379 steel using a ZTA5Ce0.7La ceramic cutting insert: A study**

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## **Spare Part Supplier Selection Model Using Decision Tree Classification Techniques: J48 Algorithm**

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## **Determination of Criteria and Sub-Criteria for Selection of Spare Part Raw Material Supplier Using the Delphi Method**

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## **Application of the Delphi Method to New Renewable Energy Assessments in Power Plants in North Sumatra Province**

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## **Spare Part Supplier Selection Model Using Decision Tree Classification Techniques: J48 Algorithm**

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## **Technology assessment of liquid waste in rubber factory using analytical hierarchy process and promethee methods**

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## **Technology Assessment of Liquid Waste in Rubber Factory Using Analytical Hierarchy Process and Promethee Methods**

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## **Determination of Criteria and Sub-Criteria in Urban Solid Waste Processing Technology**

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## **Spare part supplier selection model using decision tree classification techniques: J48 Algorithm**

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## **Determination of criteria and sub-criteria for selection of spare parts raw material supplier using the Delphi method**

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## **Application of the delphi method to new renewable energy assessments in power plants in North Sumatra province**

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## **Design of logistics information system in the finished product warehouse with the waterfall method: review literature**

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## **Identification Criteria and Indicators of Palm Oil Industrial Solid Waste Processing Technology**

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2019

Buku lainnya

## **Manajemen Teknologi dari Perspektif Teknik**

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2019

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## **Identification Criteria and Indicators of Palm Oil Industrial Liquid Waste Processing Technology**

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2019

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### **The Application of Lean Manufacturing to Minimize Waste in Crude Palm Oil (CPO) Production Process at PT. XYZ**

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2018

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### **Identification criteria and indicators of palm oil industrial solid waste processing technology**

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2018

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### **Identification criteria and indicators of palm oil industrial liquid waste processing technology**

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2017

Prosiding seminar internasional

### **Decision Support Model for Selection Technologies in Processing of Palm Oil Industrial Liquid Waste**

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2017

Prosiding seminar internasional

### **Decision Support Model for Selection Technologies in Processing of Palm Oil Industrial Liquid Waste**

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## **Researches**

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2020

Penelitian Dosen Pemula

### **PENERAPAN KUESIONER KANO, QUALITY FUNCTION DEPLOYMENT (QFD) DAN TEORIYA RESHENIYA IZOBRETATELSKIKH ZADATCH (TRIZ) UNTUK MENENTUKAN KEBUTUHAN PERANCANGAN ALAT OXYRATOR RECHARGE**

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## **Community Services**

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2023

Ipteks Bagi Kewirausahaan

### **Peningkatan Kapasitas dan Pengemasan Produksi bagi Usaha Makanan Rumahan Padat Karya**

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## **Intellectual Property Rights**

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2019

Hak cipta nasional

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