

## Bukti Korespondensi

“Analysis of Engine Piston Damage to the Generator  
Set Using the Fishbone Analysis Method”

Wilarsa, Firmansyah Azharul, M. Ali Pahmi, **Dan**  
**Mugisidi**, Kholqillah Ardhian Ilman

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## PRELIMINARY

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Preface: The 3rd International Conference on Engineering and Applied Science (The 3rd INCEAS 2021)  

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## CHEMICAL ENGINEERING

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The effect of volume ratio of methanol and temperature on yields and properties of biodiesel from callophylum inophyllum oil  

[Haryanto Haryanto; Raja Rajeswary Suppiah; Ade Rohman; Abdul Haris Mulyadi](#)

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Production and decolorization of lignin from industrial waste of pulp and paper based on the coagulation method using poly aluminium chloride  

[Calaelma Logys Imalia; Bambang Pramudono; Slamet Priyanto; Rosemerry Fatmawati; Maureen Yudith Tiurma](#)

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## The effects of feedstock on the bioconversion of organic solid waste with black soldier fly larvae

Ika Pruwita; Agus Prasetya; Chandra Wahyu Purnomo

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## Theobromine content of non fermented cacao powder with steam roasting related with health

Melia Ariyanti; Rosniati Rosniati; Medan Yumas; Wahyuni Wahyuni; Dwi Indriana

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## Sodium lignosulfonate flocculation kinetic study on Kawengan crude oil emulsion destabilization

Nicola Ardana S. G.; Sandi Estrada; Bambang Pramudono; Slamet Priyanto; Harsa Pawigya

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## CIVIL ENGINEERING

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### The California bearing ratio and unconfined compressive strength of clay–palm kernel shell mixtures

Yulian Firmana Arifin; Muhammad Ridha

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Pull out strength and slip modulus of glued-in rod perpendicular to the grain with two edge distance variations on laminated bamboo ☰

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Basic properties of fiber concrete with the utilization of banana tree wastes ☰

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Comparison of efficiency power plant method in generation expansion planning 

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IoT based electrical energy monitoring system 

Itmi Hidayat Kurniawan; Latiful Hayat; Danang Karunia Pratama

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## 3D simulation analysis of p-channel cylindrical thin film transistors (CTFT) for RF electronic applications ☰

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## Design and development prototype of measurement oxygen saturation in blood ( $\text{SpO}_2$ ) as early detection happy hypoxia in Covid-19 patients ☰

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## Single phase on grid solar power inverter design ☰

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## Design of automatic energy flow shift control system in standalone solar power system ☰

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## Maintenance of 60 MVA power transformers in Pauh Limo Padang substation ☰

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System modeling analysis in utility system to increase flow and minimize head loss in a manufacturing plant 

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Designing sustainable supply chain risk monitoring in distribution and return process using fuzzy AHP-Promethee 

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Workload analysis of manual epoxy packing line process using NIOSH lifting index method 

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Genetic algorithm optimization for image classification of coconut wood-based on GLCM 

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User interface/user experience revamp and usability investigation of Indonesian pharmaceutical mobile commerce app 

Sandra Dewi Buntoro; Clara Hetty Primasari; Yohanes Priadi Wibisono; Putri Nastiti

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## Strategic planning of an Indonesian IT company using TOGAF ADM

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## The suitable distance function for fuzzy C-Means clustering



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## Improvement recommendation for functionality, usability, and efficiency aspect in credit surveyor application using ISO 9126

Limia Kristiani; Clara Hetty Primasari; Aloysius Bagas Pradipta Irianto

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## A decision support system based on support vector machine for employee recruitment

Fitriana Masruroh; Bayu Surarso; Budi Warsito

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## Implementation of smartcity in the field of personnel, mobile attendance case study

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## Logarithmic transformation for enhancing keypoint matching of SIFT in augmented reality

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## K-Means cluster optimization for potentiality student grouping using elbow method

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## Selection of the most accurate training algorithm in the backpropagation network based on the accuracy of data pattern matching

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## Implementation of the canny edge detection algorithm on mobile cameras

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### The pressure relief venting for air insulation cable box at power transformer

Asep Saepudin; Asep Dharmanto; Wilarso Wilarso

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## Design & development of friction welding machine based on lathe machine

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## 2D finite element study of contact pressure on CoCrMo-on-CoCrMo total hip arthroplasty during peak loading based on body mass index

Muhammad Imam Ammarullah; Ilham Yustar Afif; Mohamad Izzur Maula; Tri Indah Winarni; Mohammad Tauqirrahman; Akbar Teguh Prakoso; Hasan Basri; J. Jamari

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## Analysis of engine piston damage to the generator set using the fishbone analysis method

Wilarso Wilarso; Firmansyah Azharul; M. Ali Pahmi; Dan Mugisidi; Kholqillah Ardhan Ilman

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## Vortex-Induced vibration of triangular bluff body to piezoelectric energy harvester in laminar flow

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