

2023 Annual Technology, Applied Science and Engineering Conference (ATASEC 2023)

Held online

Advances in Engineering Research Volume 229

Malang, Indonesia
14 - 15 September 2023

ISBN: 978-1-7138-8830-7

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Print copyright© (2023) by Atlantis Press (part of Springer Nature)
All rights reserved.
Copyright for individual electronic papers remains with the authors.

For permission requests, please contact the publisher:

Atlantis Press
Van Godewijckstraat 30
3311GX Dordrecht
The Netherlands

contact@atlantis-press.com

Printed with permission by Curran Associates, Inc. (2025)

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Analysis of the Degree of Service at Gajayana Intersection of Malang City	1
<i>Supiyono Supiyono, Ratih Indri Hapsari, Fajar Purnomo</i>	
Measuring the Level of Student Satisfaction in the Open Final Exam System Using Correlation Analysis.....	10
<i>Hero Wintolo, Haruno Sajati, Dedi Bintang Pamungkas, Astika Ayuningtyas, Asih Pujiastuti, Anggraini Kusumaningrum</i>	
Green Material Characterization of Recycled Fabric Waste Composite for Unmanned Aerial Vehicle (UAV) Structure.....	24
<i>Istyawan Priyahapsara, Sri Mulyani, Elisabeth Anna Pratiwi, Rasyid Rasyid</i>	
Mapping of Earthquake Risk Areas Based on the Probabilistic Seismic Hazard Analysis (PSHA) Method from Earthquake Sources on the Island of Bali.....	31
<i>Riski Kurniawan, Cyrilus Sukaca Budiono, Indro Lukito, Wahyudi Sumarwoto</i>	
Optimization of Green Liquid Fuel for Diesel Engine	39
<i>Luchis Rubianto, Arif Budiono, Anang Takwanto, Dwina Moentamaria</i>	
Image Processing in Automatic Locking System on SS2 TNI AD Weapon Rack Using Fingerprint Sensor with K-Nearest Neighbor (KNN) Algorithm Method.....	45
<i>Rafi Maulana Al-farizi, Indrazno Siradjuddin, Sapto Wibowo</i>	
System Design Renewable Energy Using Applications Bright Energy Solar Meter Panel Based on the Internet of Things	57
<i>Mochammad Junus, Septriandi Wirayoga, Adzikirani</i>	
Effect of Intake Variations on Vortex Hydro Turbine Performances	70
<i>Mohammad Noor Hidayat, Ferdian Ronilaya, Irwan Heryanto Eryk, Sapto Wibowo, Muhammad Fahmi Hakim, Rhezal Agung Ananto, Niko Candra Anugraha, Reynaldy Suryadinataa</i>	
Analysis of Service Satisfaction at A. A. Bere Tallo Atambua Airport Using Importance Performance Analysis (IPA) and Customer Satisfaction Index (CSI) Methods.....	87
<i>Suhanto Suhanto, Roger Benyamin George Asa, Riani Nurdin, Prasidananto Nur Santoso, Abdul Haris, Okto Dinaryanto, Esa Rengganis Sullyartha, Uyuunul Mauidzoh</i>	
Fatigue Life Prediction of Injection Molded Polymer Materials	101
<i>Syamsul Hadi, Agus Hardjito, Hangga Wicaksono, Tri Setyo Aji Cahyono, Wirawan Wirawan, Zakki Fuadi Emzain</i>	
Longitudinal Stability Analysis of STTA-12 MXA.....	115
<i>Bangga Dirgantara Adiputra, Okto Dinaryanto, buyung Junaidin, Lazuardy Pinandhita</i>	
Load Analysis of the Landing Gear Structure on the Grob G120TP-A.....	123
<i>Benedictus Mardwianta, Muhammad Bimo Santoso, Abdul Haris Subarjo, Nurfi Ahmadi, Okto Dinaryanto, Dedet Hermawan</i>	
Increasing Solar Radiation Energy in Equipment Distillation to Produce Fresh Water for Airport.....	138
<i>Dedet Hermawan Setiabudi, Okto Dinaryanto, Abdul Haris, Benedictus Mardwianta</i>	

Delamination Analysis of Entry and Exit Surface with Carbon-Fiber-Reinforced Polymers Composite Materials (CFRP) in UAV	149
<i>Elisabeth Anna Prattiwi, Istyawan Priyahapsara, Sri Mulyani, Dwi Hartini, Fajar Khanif Rahmawati, Ashyadil Listyo Rachmanto</i>	
Comparison of Recirculation and Non-Recirculation Leachate on Bio-Drying of Organic Fraction of MSW	159
<i>Eko Naryono, Zakijah Irfan, Moch. Agung Indra Iswara, Abdul Chalim, Alqavid, Anne Rahma Salsabila, Ahmad Maulana, Mochammad Farhan Fiko Fanani</i>	
Functional Hazard Assessment Aircraft Electrical System.....	168
<i>Cyrlus Sukaca Budiono, Riski Kurniawan, Indro Lukito, Wahyudi Sumarwoto</i>	
Performance of Shell and Tube Heat Exchanger 1–1 Counter Current Formalin (Shell) – Water (Tube) Fluid Systems in Industry	176
<i>Ariani Ariani, Abdul Chalim, Hardjono Hardjono, Anang T.</i>	
Study of Sultan Iskandar Muda Airport in Banda Aceh with an Eco-Airport Concept	187
<i>Sri Mulyani, Istyawan Pryahapsara, Muhammad Anka Al Pasha, Elisabeth Anna Prattiwi</i>	
Preliminary Analysis of Experimental Results Using Drag-And-Drop and Log Data on PseudoLearn in Learning Logic Programming.....	192
<i>Vivin Ayu Lestari, Farid Angga Pribadi, Eka Larasati Amalia, Ardila Lukita Sari, Eksa Lailia Maulidina</i>	
Automatic Java Code Generation System from Flowchart for Basic Programming Learning	206
<i>Mustika Mentari, Pramana Yoga Saputra, Yan Watequlis Syaifudin, Imam Fahrur Rozi, Naufal Nafidiin</i>	
Design of a Radio Repeater System to Counter Jamming Using the Channel Hopping Technique	219
<i>M. Nanak Zakaria, Ahmad Wilda Yulianto, P. I Yoyok Heru, Achmad Setiawan</i>	
The Effect of Corn Cob Powder Volume Fraction on the Quality of Composite Acoustic Boards for Airport Buildings.....	231
<i>Nur Akhmad Triwibowo, Muhammad Adil, Fajar Nugroho</i>	
Influence of Extraction Methods and Solvents on Tannin Content and Performance of Bio Inhibitor in Inhibiting Corrosion of Seawater Battery Electrodes	237
<i>Sugeng Hadi Susilo, Gumono Gumono, Windi Zamrudy, Listiyono Listiyono, Taufik Hidayat Ramadhon</i>	
The Mechanical Properties of the Sea Pandan Leaves (Pandanus Tectorius) Fiber-Reinforced Epoxy Composite Were Assessed Using Bending Tests.....	248
<i>Dwi Hartini, Lazuardy Rahendra Pinandita, Pramuda Naufal Mubarak</i>	
Effect of Addition of Pineapple Leaf Fiber and Palm Fiber on the Bending Strength of Polypropylene Composites as Materials Candidate Unmanned Aerial Vehicle.....	258
<i>Nurfi Ahmadi, Egi Saiful Ramadhan, Abdul Haris Subarjo</i>	

Author Index