

TABLE OF CONTENT  
2018 International Conference on Engineering, Advance Science  
and Industrial Application (ICETASIA)

**Keynote Speaker**

Prof. Ismet P. Ilyas, BSMET., M.Eng.Sc., Ph.D

p.1

Prof. Chen-Chia Chou

p.2

**Technical Papers**

***Landslide and mudflow behavior case study in Indonesia: Rheology approach***

Budijanto Widjaja.

pp. 3-8

***Feasibility Study Wear Rate Measurement Using 3D Scan Imaging***

Kurniawan, Rochim Suratman, Bagus Budiwantoro, Satryo Soemantri Brodjonegoro,  
Riona I Media.

pp. 9-13

***Multi-tuned Active Power Filter Based on p-q Theory for Power Harmonic Supression***

Mohammad Jauhari, Kukuh Widarsono, Akhmad Kurdianto, Ciptian Weried Priandana,  
Mochammad Machmud Rifadil, Arman Jaya.

pp. 14-17

***Knowledge Management System Model Development for Higher Technical Vocational Education***

Eduardus Dimas Arya Sadewa, Romadhani Ardi, Amalia Suzianti.

pp. 18-26

***Analysis of Half Round Runner Dimensions Influence to Plastics Injection Results on Making Door Handle Using Taguchi Method***

Ulfa Fairuz Izdihar, Jata Budiman, Gamawan Ananto.

pp. 27-31

***Design Of a Plastic Shredder Machine*** Nuri

Aryani, Dede Buchori, Albertus Budi Setiawan.

pp. 32-37

***Distance Control System To Increase Precision And Stability Of Glass Cleaning Robot***

Bambang Sampurno, Arief Abdurrakhman, Herry Sufyan Hadi, Heri Joestiono, Amanda Fitri Saudzah.

pp. 38-41

***CASE STUDY: Materials Selection For Replacing A Fractured Pendulum Holder of Charpy Impact Testing Machine Hung-Ta 8041a Type Based On The Working Load***  
Winarto, Eddy Widiyono, Nur Husodo, Atria Pradityana, Subowo.  
pp. 42-46

***Mechanical Property Improvement for Aluminium Alloy AL-7Si with Additive Material of AlTiB and Heat Treatment of T5***  
Suhariyanto, Syamsul Hadi, Hari Subiyanto, Mahirul Mursid, Gathot Dwi Winarto, Atria Pradityana.  
pp. 47-53

***Development of Samiler Jarak-Dolly (Samijali) Business Through Social-Based Business Model***  
Berto Mulia Wibawa, Varah Nuzulfah, Andi Hafisah.  
pp. 54-59

***Development of the Portable Shake Table for Simulating Building Characteristic under Earthquake Condition***  
Ciptian Weried Priananda, Fauzi Imaduddin Adhim, Lucky Putri Rahayu, Mahfud Kurnianto, Singgih Cantona, Mohammad jauhari, Munarus Suluch.  
pp. 60-63

***Characterization of Liquid Smoke Bamboo Waste with Pyrolysis Method***  
Warlinda Eka Triastuti, Elly Agustiani, Rinny Retnoningsih  
pp. 64-67

***Design of Power Distribution on Operator Control Unit (OCU) Rhino Robot***  
Ahmad Nur Riza, Imam Arifin, Mahardhika Pratama, dan Lidikri Mohammad Fasha.  
pp. 68-72

***Inertial Navigation System Design using Inertial Measurement Unit 10 DoF on Diver Propulsion Vehicle***  
Alief Ardiansyah, Imam Arifin, Mahardhika Pratama, Agung Imam.  
pp. 73-79

***Design and Development Graphical User Interface on Inertial Navigation System of Submarine***  
Amirotul Khoiro, Imam Arifin, Mahardhika Pratama dan M. Fajar Adianto.  
pp. 80-85

***Acquisition and Data Logging Inertial Navigation System (INS) on Combat Submarine Using Arduino-SD Card***  
Varisa Rahmawati, Achmad Affandi, Imam Arifin, Muhammad Asrofi.  
pp. 86-91

***Graphical User Interface Optimalization Based C# with Visual Studio to Operator Control Unit Rhino Robot***  
Tata Tanjung Tamara, Achmad Affandi, Imam Arifin dan Muhammad Fajar Adityo.  
pp. 92-95

***Designing Interface of Rhino Robot'S Operator Control Unit using Development Board LattePanda***

Livian Tjandra, Achmad Affandi, Imam Arifin, dan M. Fajar Adityo.  
pp. 96-102

***UHF RFID Read Range Control Based On Visual Basic.NET For Automation Tool's Crib*** Aldo Rahmad Ageng, Ari Santoso, Imam Arifin, Ayyasy Azzurqi, Moh. Abdul Hady.  
pp. 103-107

***Perancangan Akses Sistem pYes Automation Tool's Crib Berbasis Web Server di PT. Astra Otoparts Divisi Winteq***

Pusparini Apriningwula, Ari Santoso, Imam Arifin, Ayyasy Az Zurqi, Moh. Abdul Hady.  
pp. 108-115

***Design Of PLC – Visual Studio Communication using CX – Server Lite For Automation Tool's Crib***

Fredrico Aditrio Pohan, Ari Santoso, Imam Arifin, dan Ayyasy Az Zurqi, Moh. Abdul Hady.  
pp. 116-119

***Design and Investigation of Characteristic Structure Split Ring Resonator Circular of Microwave Metamaterial Absorber Parameter in X-band Frequency***

Arif Fahmi, Eko Setijadi, Puji Handayani.  
pp. 120-125

***Effects of Holding Time during Artificial Aging Process on AA6061 to The Mechanical Properties***

Atria Pradityana dan Erik Kurniawan Widyantoro.  
pp. 126-129

***Aging Process on Aluminium Alloy to the***

Atria Pradityana, Budi Luwar Sanyoto dan Erik Kurniawan Widyantoro.  
pp. 130-133

***Fabrication and Characterization of Directional Couplers as Power Dividers***

Alan Andriawan, Lucky Putri Rahayu, Yono Hadi Pramono.  
pp. 134-137