Organized by:



Faculty of Engineering Universitas Indonesia THE 12th
INTERNATIONAL
CONFERENCE On QIR
(QUALITY in RESEARCH)

in Conjuction with

ICSERA 2011

Program Book



http://qir.eng.ui.ac.id

ISSN 114-1284





H9.1_Irwan Katili_REP Application in Error Estimation of Plate Bending Problem Using DKMQ Element	2501
H9.2_Olarewaju Akinola Johnson_Blast Effects on Underground Pipes Using Finite Element Method	2511
H9.3_Arwan Apriyono_Stability Analysis of Tunnel A Review on Influence of Earthquake Loads Variation Using Finite Element Method	2519
H9.4_Hartono_Development of NUS Model Tunnel for Centrifuge Experiments to Advance Quality in Research	2527
H9.5_Mabrouk Touahmia_Design Considerations for Geosynthetics Reinforced Soil Systems	2535
Plenary Lecture_Pekka Levi,,kangas_Eco-Pricing of Mobility	2540
SYMPOSIUM I	
A2.4_Andy N Sommeng_Risk Forecast Gas Distribution Pipeline using Random Number Generation Simulation	2542
A4.6_Flora Elvistia Firdaus_Property of Water-Blown Polyurethane Foam Made from Vegetable Oil-based Polyol	2552
A5.3_Erdawati_Improving the Henna Dye Ability of Cotton by Treatment with Chitosan Nanoparticle (CNP)	2558
A5.5_Riskiono Slamet_Optimization of nanopackaging composition to enchance shelf life of fruit juice	2565
B16.6_Ucuk Darusalam_Analisys of Terestrial Free-Space Optical Communication Performance Induced by Turbulent Effect	2573
B17.5_Windarto_Server Room Security System using LASER and Light Dependent Resistor Detection	2581
B4.5_Hartono BS_Development Energy Management System Base on Weather and Load Prediction to Improve Stability of Microgrid in Islanding Condition	2588
B7.9_Hartono BS_Performance Improvement of Islanding Detection Method on Microgrid System	2595
C4.3_Dani Harmanto_The Study of Computational Fluid Dynamics	2601
C4.6_H.M. Faizal_Maximum compaction Pressure	2602
C4.7_Xi Ru Zheng_A Study on Boiling Heat Transfer	2606
D1.3_Hyeon-Uk Cho_Efficient computation of five-axis	2612
D1.5_Shahid Khalil_Chemical Milling for Aerospace	2616
D1.7_Abbas Mirjalili_Warp Tension Simulation In	2624
D2.6_Seung-Jae Lee_The Effect of Mechanical Compressive Loading	2630
E11.1_Rachman Setiawan_Influence of particle properties	2634
E11.2_A. M. Mustafa Al Bakri_Strength Performance of GPC	2639
E12.3_Urip Agus Salim_Deformation behaviour by cold expanded hole in AISI 316L	2645
E13.5_Mohd Arif Anuar Mohd Salleh_Wettability, Electrical and Mechanical Properties of 99.3Sn-0	2652
E3.2_Djati Handoko_Fabrication of The Magneto-Optical	2653
E5.2_Andika WP_ The potential development of nano-structured Cu-Nb3Sn	2654
E6.7_Afrizal_Synthesis and Their Thermotropic Liquid Crystalline	2665
F6.5_Heni Suhaeni Sukarya_The Impact of the Household Income on the Housing Condition In Bandung City,West Java – Indonesia	2671
G1.7_Arief Rahmana_Introduction, Adoption, and Adaptation in Quality Management Implementation	2677
G2.2_Y.M. Kinley Aritonang_Inventory Control of the Special Sale and Known Price Increased Model	2683
G2.3_Emil E. Dardak_Technological Diffusion in Agricultural-based Rural Towns or Economic Clusters	2688
G2.9_Agus Mansur_Improving the Quality Decision for Granting Loans Using Associative Classification Tree	2693