

WINNERS

First Place, Eng Chandrasena Award

Smart Device for DC Side Fault Detection and Prediction for Solar Pv Systems (Paper ID 70)
Asanka S. Rodrigo, P.W. Dewapura, M.M.S.D. Ranasingha, B.D.S. Premanath and K.M. Ramanayake, University of Moratuwa, Department of Electrical Engineering

Second Place

2. Deformation Behavior of Soil Cement Column Improved Ground (Paper ID 02) T.H.M.N. Thenuwara and N.H. Priyankara, University of Ruhuna

Third Places – (Two Numbers)

1. Manufacturing Ceramic Tiles Using Extracted Clay as A New Raw Material (Paper ID 56) A. A. D. A. J. Perera, U. Sutharsan and S. N. Malkanthi, University of Moratuwa, Department of Civil Engineering

2. The Effect of Degree of Saturation on Pullout Resistance (Paper ID 03) K.A.S.N. Fernando and N.H. Priyankara, University of Ruhuna

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	Judge 3: Dr Nalaka Samaraweera	University of Moratuwa

PROGRAM OF THE DAY

Session 01

Session Chair: Dr Ganga Samarasekara, University of Sri Jayawardanepura

1. Deformation Behavior of Soil Cement Column Improved Ground
2. The Effect of Degree of Saturation on Pullout Resistance
3. Modeling Microalgae Growth in Bubble Column Reactor for Wastewater Treatment
4. Reduction of Secondary Consolidation of Peaty Clay due to Preloading with Extended Periods
5. Technical Evaluation of Pre-Excavation Grouting Process in Tunnel Project Case Study: Uma Oya, Sri Lanka
6. Treatment of Parboiled Rice mill Wastewater Using Microalgae for Energy Positive Wastewater Treatment
7. Analyzing the User Satisfaction of Public Bus Transport System in Sri Lanka

Session 02

Session Chair: Dr. Thanuja Kulatunga, Kotelawala Defence University

1. Development of the Optimum Mix Design for Fly Ash based Geopolymer Concrete
2. Comparison between Continuous and Simply Supported Precast Pre-Stressed Concrete Girder Bridges in Sri Lanka
3. Feasibility of Manufacturing Ceramic Tiles Using Extracted Clay
4. Use of Scrap Tyres in Gabion Wall Construction
5. Evaluation of Eps as an Aggregate Alternative in Masonry Blocks and Concrete
6. Optimal Design and Failure Prediction Using Neural Networks

Session 03

Session Chair: Dr Rasara Samarasinghe, University of Moratuwa

1. Smart Device for DC Side Fault Detection and Prediction for Solar Pv Systems
2. Techno-Economic Assessment of the Management Process of Sri Lankan Electrical Power Grid during 2020 Crisis Era of COVID-19 Outbreak
- 3.
4. Smart Water Meter System for Automated Billing, Pipe-Network Maintenance and Usage Pattern Analysis
5. Virtual Simulation Analysis of Smart Micro-Grid Control with Dedicated Nodes
6. Development of Remote-Controlled Smart Appliance for Medical Support and Assistance - COVID-19 (Medimate)

Session 04

Session Chair: Dr Dilantha Subasinghe, University of Moratuwa

1. The Effect of Secondary Air Flow Rate on Biomass Gasification in a Fluidized Bed Reactor
2. Modelling Adsorption Kinetics for Removal of Basic Red 18 Dye Using Magnetic Nanoparticles Loaded Tea Waste
3. A Paddy Transplanter for Small Scale Farmers
4. Effect of Marine Environment on Corrosion of Mild Steel.
5. Development of Regression Model to Investigate the Correlation of Selected Input Parameters to the Thread Consumption of Over-Lock Stitch 514

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