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Program

Thursday, September 27

Thursday, September 27 9:30 - 11:30

INV: Invited Paper

Green Computing: Opportunity of Using Breadth Fixed Gossip Algorithm for Optimizing Power Supply Route in Power Plant

Mauridhi Purnomo (Institut Teknologi Sepuluh Nopember, Indonesia)

pp. 1-6

Thursday, September 27 13:00 - 15:15

A1: Electronic Circuit & Control

Magnetic Field Relationship between Distance and Induced Voltage Generated by EMP

Betantya Nugroho and Azli Yahya (Universiti Teknologi Malaysia, Malaysia); Abd Rahim (Mindmatics, Malaysia); Trias Andromeda (Universitas Diponegoro, Indonesia)

pp. 7-10

Communication Protocol on 64-Channel ECVT Data Acquisition System

Arbai Yusuf (Universitas Indonesia & C-Tech Labs Edwar Technology, Indonesia)

pp. 11-14

Cooling System Design Based on Thermoelectric Using Fan Motor on-off Control

Munnik Haryanti (Universitas Dirgantara Marsekal Suryadarma, Indonesia)

pp. 15-18

Design of The 3D Surface Scanning System for Human Wrist Contour Using Laser Line Imaging

Riky Tri Yunardi and Ario Imandiri (Universitas Airlangga, Indonesia)

pp. 19-23

Temperature Controlling Using PID Controller on Rice Grain Fluidized Dryer Prototype

Aris Triwiyatno (Diponegoro University, Indonesia)

PID Based Air Heater Controller Implemented With Matlab/Simulink and Arduino Uno

Bambang Supriyo, Dadi Dadi, Sulisty Warjono, Adi Wisaksono, Sri Astuti and Kusno Utomo (Politeknik Negeri Semarang, Indonesia)

pp. 28-32

Design A Low Cost Wind Direction Sensor With High Accuracy

Yoga Utama (University of Widya Kartika, Indonesia)

pp. 33-38

Quadruped Robot with Stabilization Algorithm on Uneven Floor using 6 DOF IMU based Inverse Kinematic

Rofiq Prayogo (Diponegoro University, Indonesia)

pp. 39-44

Design and Characterization of Low-Cost Soft Pneumatic Bending Actuator for Hand Rehabilitation

Mochammad Ariyanto, Joga Setiawan, Rifky Ismail, Ismoyo Haryanto, Tania Febrina and Doni Saksono (Diponegoro University, Indonesia)

pp. 45-50

B1: Electric & Power System

Design and Performance Test of Three Phased SRF-PLL using DSPIC30F4011

Syarief Ali, Iwan Setiawan and Susatyo Handoko (Universitas Diponegoro, Indonesia)
pp. 51-56

The Effect of Excitation Capacitors on Induction Generators in Loss-of-Grid Events

Mokhammad Isnaeni Bambang Setyonegoro (Universitas Gadjah Mada, Indonesia); Danang Wijaya (UGM, Indonesia); Eka Firmansyah (Universitas Gadjah Mada, Indonesia)
pp. 57-60

Transient Stability Study in Grid Integrated Wind Farm

Samuel Adi Kusumo (Universitas Gadjah Mada, Indonesia); Lesnanto Multa Putranto (UGM, Indonesia); Tiyono Tiyono (Universitas Gadjah Mada, Indonesia)
pp. 61-66

Analysis of Energy Potential of Biomass Electricity from Leaf Waste by Using Briquette Method

Herlina Wahab (Sriwijaya University & University of Indonesia, Indonesia); Rudy Setiabudy (Universitas Indonesia (UI), Indonesia); Akbar Cahyadi (Universitas Indonesia, Indonesia)
pp. 67-72

DVR to Voltage Sag Mitigation Due to Induction Motor Starting and 3 Phase Fault

Muhammad Kuncoro and Iwa Garniwa (University of Indonesia, Indonesia)
pp. 73-78

A Single Phase 11-Level Inverter for Photovoltaic Application

Wira Adhitama and Leonardus Pratomo (Soegijapranata Catholic University, Indonesia)
pp. 79-83

Design and Implementation of Inverter Single Phase Nine-Level Using PIC18F4550

Natanael Novalutfi and Leonardus Pratomo (Soegijapranata Catholic University, Indonesia)
pp. 84-88

Energy Saving Measures and Potential of Energy Efficiency at The University of Surabaya

Fitri Kartikasari (University of Surabaya, Indonesia); Elieser Tarigan (University of Surabaya & Electrical Engineering, Indonesia); Yunus Fransiscus and Tuani Lidyawati (University of Surabaya, Indonesia)
pp. 89-92

Design and Simulation of an Asymmetrical 11-Level Inverter for Photovoltaic Applications

Christopher Tjokro and Leonardus Pratomo (Soegijapranata Catholic University, Indonesia)
pp. 93-98

C1: Information & Computer Technologies

MRI Image Segmentation using Morphological Enhancement and Noise Removal based on Fuzzy C-means

Robert Setyawan, Mustofa Alisahid Almahfud, Christy Atika Sari, De Rosal Ignatius Moses Setiadi and Eko Hari Rachmawanto (Dian Nuswantoro University, Indonesia)
pp. 99-104

Measurement on Real-Time Diagnostic of Gastric Tumor Model Using Wireless Endoscopy System

Novietasari Chisnariandini (University of Indonesia, Indonesia); Arie Pangesti Aji (Universitas Indonesia, Indonesia); Yudiansyah Yudiansyah (University of Indonesia, Indonesia); Prita Dewi Mariyam, Jauharul Fuadi, Yulianto La Elo and Basari Basari (Universitas Indonesia, Indonesia)
pp. 105-108

Relational Database Structure and Operations Engineering Based on UML Diagram

Lukman Hakim (Bandung Institute of Technology, Indonesia); Sukrisno Mardiyanto (Institut Teknologi Bandung, Indonesia)

Design of Secure IoT Platform For Smart Home System

Arvandy Arvandy and Yoanes Bandung (Institut Teknologi Bandung, Indonesia)
pp. 114-119

Marker Image Variables Measurement of Augmented Reality in Mobile Application

Ike Windasari, Yudi Windarto and Risma Septiana (Diponegoro University, Indonesia)
pp. 120-124

Sentiment Analysis and Topic Modelling for Identification of Government Service Satisfaction

Moh Nasrul Aziz, Ari Firmanto, Ahmad Miftah Fajrin and R. V. Hari Ginardi (Institut Teknologi Sepuluh Nopember, Indonesia)
pp. 125-130

Prototype of Online Examination on MoLearn Applications Using Text Similarity to Detect Plagiarism

Julianto Lemantara (Institut Bisnis dan Informatika Stikom Surabaya, Indonesia); Dewiyani Sunarto (Institute of Business and Informatic Stikom Surabaya, Indonesia); Bambang Hariadi, Tri Sagirani and Tan Amelia (Institut Bisnis dan Informatika Stikom Surabaya, Indonesia)
pp. 131-136

Performance Comparison Between AES256-Blowfish and Blowfish-AES256 Combination

Muhammad Muin (Universitas AMIKOM Yogyakarta & STMIK Bina Patria, Indonesia); Arief Setyanto (Universitas AMIKOM Yogyakarta, Indonesia); Sudarmawan Sudarmawan (AMIKOM Yogyakarta University, Indonesia); Kartika Santoso (STMIK Bina Patria, Indonesia)
pp. 137-141

A Natural Childbirth Training Simulation in Virtual Environment For Prospective Midwife

Alvin Nugraha, Aulia Faza, Wulan Indayani and Hanny Haryanto (Universitas Dian Nuswantoro, Indonesia); Abas Setiawan (Dian Nuswantoro University, Indonesia)
pp. 142-146

D1: Telecommunications & Radio Frequency

Study on 2G Termination in Indonesia using BCG Matrix

Alaind Fadrian and Ajib S. Arifin (Universitas Indonesia, Indonesia)
pp. 147-151

Performance of 8FSK base on PACTOR I protocol over AWGN channels

Mohd Yazid Ab Razak (National University of Malaysia & Mindmatics Sdn Bhd, Malaysia); Abd Rahim Mat Sidek (Mindmatics Sdn Bhd, Malaysia); Nasharuddin Zainal (Universiti Kebangsaan Malaysia, Malaysia)
pp. 152-156

Development of Radio Direction Finder using 6 Log Periodic Dipole Array Antennas

Kartiko Nugroho, Azli Yahya and Nor Hisham Khamis (Universiti Teknologi Malaysia, Malaysia); Nuramirah Mohd Nor (Mindmatics Sdn. Bhd., Malaysia); Abd Rahim (Mindmatics, Malaysia); Mohammad Razman Shaari (Mindmatics Sdn. Bhd., Malaysia)
pp. 157-160

Directional 2x2 MIMO Microstrip Antenna Design and Optimization for LTE Band-3 Application

Tommi Hariyadi and Rizky Megantara (Universitas Pendidikan Indonesia, Indonesia)
pp. 161-166

High Throughput Wireless Printer Server Based on IEEE 802.11n

Wahyul Amien Syafei (Diponegoro University, Semarang & Kyushu Institute of Technology, Iizuka, Indonesia); Imam Santoso (Diponegoro University, Indonesia)
pp. 167-170

Analysis on Batik Water Waste Monitoring System based on LoRa Communication

Michael Stephen Moses Pakpahan, Eko Didik Widiananto and Risma Septiana (Diponegoro University, Indonesia)

pp. 171-175

A GIS-based Waste Water Monitoring System Using LoRa Technology

Yudi Windarto and Agung Prasetyo (Diponegoro University, Indonesia); Galang Damara (Universitas Diponegoro, Indonesia)

pp. 176-179

Filtering for Data Acquisition on Wireless Sensor Network

Aghus Sofwan, Sumardi Sumardi and Nely Ulwiyati (Diponegoro University, Indonesia)

pp. 180-184

Thursday, September 27 15:30 - 18:45

A2: Electronic Circuit & Control

Predictive Control for Relative Performance Management

Dharma Aryani (State Polytechnic of Ujung Pandang, Indonesia); Nur Asyik Hidayatullah (State Polytechnic of Madiun, Indonesia)

pp. 185-190

Design and Development of Injection Current Control On Inverter-Based Proportional Resonant Method

Abdul Haris Kuspranoto and Iwan Setiawan (Universitas Diponegoro, Indonesia); Mochammad Facta (Diponegoro University, Indonesia)

pp. 191-196

Development of Object Tracking System Using Remotely Operated Vehicle Based on Visual sensor

Erwin Saputra and Ronny Mardiyanto (Institut Teknologi Sepuluh Nopember, Indonesia)

pp. 197-202

Predictive Control Approach for Restricted Areas Avoidance of Autonomous System

Sutrisno Sutrisno, Widowati Widowati, Sunarsih Sunarsih and Kartono Kartono (Diponegoro University, Indonesia)

pp. 203-207

Kufarm: A Modified Platform of Automation Planting System

Damar Pramuditya (Telkom University, Indonesia); Agung Nugroho Jati and Fairuz Azmi (Telkom University, Indonesia)

pp. 208-213

Tracking Object based on GPS and IMU Sensor

Wahyudi Wahyudi (Department of Electrical Engineering, Diponegoro University)

pp. 214-218

Development of Navigation Method of Buoyant Boat for Maintaining Position of The Boat and ROV

Ronny Mardiyanto, Heri Suryatomo and Badrut Tamam (Institut Teknologi Sepuluh Nopember, Indonesia)

pp. 219-224

Development of a Low-Cost Quadrupedal Starfish Soft Robot

Mochammad Ariyanto, Munadi M and Joga Setiawan (Diponegoro University, Indonesia)

pp. 225-229

Performance Improvement of Robot Warehouse Based on Battery Operational Conditions

Almira Budiyo, Aris Setiawan and Setyawan Wahyu Pratomo (Universitas Islam Indonesia, Indonesia)

pp. 230-233

B2: Electric & Power System

Design of Adaptive PID Controller for Fuel Utilization In Solid Oxide Fuel Cell

Darjat Darjat, Sulisty Sulisty and Aris Triwiyatno (Diponegoro University, Indonesia)

pp. 234-239

Study on Photovoltaic Hosting in Yogyakarta Electric Distribution Network

Faishal Fuad Rahman Soeharto (Universitas Gadjah Mada, Indonesia); Kristianto Adi Widiatmoko and Sarjiya Sarjiya (Gadjah Mada University, Indonesia); Lesnanto Multa Putranto (UGM, Indonesia)
pp. 240-244

Analysis of Grounding System in 150 kV Kudus Substation

Riza Pratama, Hermawan Hermawan and Mochammad Facta (Diponegoro University, Indonesia)
pp. 245-250

Maximum Power Tracking of Solar Panel using Modified Incremental Conductance Method

Trias Andromeda (Universitas Diponegoro, Indonesia); Betantya Nugroho (Universiti Teknologi Malaysia, Malaysia); Susatyo Handoko (Universitas Diponegoro, Indonesia); Azli Yahya (Universiti Teknologi Malaysia, Malaysia); Hermawan Hermawan and Mochammad Facta (Diponegoro University, Indonesia); Iwan Setiawan (Universitas Diponegoro, Indonesia)
pp. 251-255

Electrical Load Forecasting Study Using Artificial Neural Network Method for Minimizing Blackout

Husein Mubarak and Mukhamad Sapanta (Universitas Islam Indonesia, Indonesia)
pp. 256-259

Comparison Study on Leakage Current of 20 kV Silicon Rubber and Epoxy Resin Insulator Under Dry and Wet Condition

Taryo Taryo (Diponegoro University, Indonesia); Abdul Syakur (Universitas Diponegoro, Indonesia); Hermawan Hermawan (Diponegoro University, Indonesia)
pp. 260-263

Leakage Current Characteristics of 20 kV Epoxy Resin Insulators Under Variation Humidity

Pertiwi Utami and Hermawan Hermawan (Diponegoro University, Indonesia); Abdul Syakur (Universitas Diponegoro, Indonesia)
pp. 264-267

Measurement System for Surface Leakage Current at Epoxy Resin Insulating Materials

Abdul Syakur (Diponegoro University, Indonesia); Wahyudi Wahyudi (Departemen Teknik Elektro UNDIP, Indonesia); Jumrianto Jumrianto, Jr (Diponegoro University & NET TV, Indonesia)
pp. 268-271

An Investigation of Direct Grounding Effect on Modeling of Lightning and Tower in Transmission Line

Mochammad Facta, Abdul Syakur and Hermawan Hermawan (Diponegoro University, Indonesia)
pp. 272-275

C2: Information & Computer Technologies

Halstead Metric for Quality Measurement of Various Version of Statcato

Iwan Binanto (Sanata Dharma University, Indonesia); Bahtiar Saleh Abbas and Nesti Sianipar (Bina Nusantara University, Indonesia); Harco Leslie Hendric Spits Warnars (Bina Nusantara University & Doctor of Computer Science, Indonesia)
pp. 276-280

Environmental Health Monitoring with Smartphone Application

Kodrat Iman Satoto, Eko Didik Widiyanto and Sumardi Sumardi (Diponegoro University, Indonesia)
pp. 281-286

Two-Step Ranking Document Using the Ontology-Based Causality Detection

A. A. I. N. Eka Karyawati and L. A. A. Rahning Putri (Udayana University, Indonesia)
pp. 287-292

Knowledge Management Model in Syariah Banking

Nurdin Nurdin (Institut Agama Islam Negeri Palu); Sagaf S Pettalongi and Khaeruddin Yusuf (Institut Agama Islam Negeri Palu, Indonesia)
pp. 293-298

The Spreading of Misinformation online: 3D Simulation

Pardis Pourghomi and Milan Dordevic (American University of the Middle East, Kuwait); Fadi Safieddine (Queen Mary University of London, United Kingdom (Great Britain))
pp. 299-304

IT Management Flexibility Concept for Higher Education

Wasilah Wasilah (Gajah Mada University (UGM) & Informatics and Bisnis Institute (IBI DARMAJAYA) Bandar Lampung, Indonesia); Lukito Edi Nugroho and Paulus Insap Santosa (Universitas Gadjah Mada, Indonesia)
pp. 305-309

Review on Cost-Value Approach for Requirements Prioritization Techniques

Tan Amelia (Institut Bisnis dan Informatika Stikom Surabaya, Indonesia); Rozlina Mohamed (Universiti Malaysia Pahang, Malaysia)
pp. 310-314

Critical Success Factor of Information Technology Implementation in Supply Chain Management

Erick Fernando and Surjandy Surjandy (Bina Nusantara University, Indonesia); Harco Leslie Hendric Spits Warnars (Bina Nusantara University & Doctor of Computer Science, Indonesia); Meyliana Meyliana (Bina Nusantara University, Indonesia); Raymond Kosala (Faculty of Computing & Media, Indonesia); Edi Abdurachman (Bina Nusantara University, Indonesia)
pp. 315-319

The Evaluation of Child's Health Monitoring System Using the Usability Testing Approach

Kurniawan Martono (Diponegoro University, Indonesia)
pp. 320-324

D2: Information & Computer Technologies

Ticketing Chatbot Service using Serverless NLP Technology

Eko Handoyo and M Arfan (Diponegoro University, Indonesia); Yosua Alvin Adi Soetrisno (Diponegoro University & Faculty of Engineering, Indonesia); Maman Somantri, Aghus Sofwan and Enda Wista Sinuraya (Diponegoro University, Indonesia)
pp. 325-330

Design of Water Quality Control for Shrimp Pond Using Sensor-Cloud Integration

Maman Somantri, Aghus Sofwan, M Arfan, Vivi Endar Herawati and Hafidhin Abdurrasyiid (Diponegoro University, Indonesia)
pp. 331-335

A Comparative Study of Image Cryptographic Method

De Rosal Ignatius Moses Setiadi, Eko Hari Rachmawanto and Christy Atika Sari (Dian Nuswantoro University, Indonesia); Ajib Susanto (Universitas Dian Nuswantoro, Indonesia); Mohamed Doheir (Universiti Teknikal Malaysia Melaka, Malaysia)
pp. 336-341

Handwriting Ownership Recognition using Contrast Enhancement and LBP Feature Extraction based on KNN

Nurul Diyah Ayu Partiningsih, Rizki Ramadhan Fratama, Christy Atika Sari, De Rosal Ignatius Moses Setiadi and Eko Hari Rachmawanto (Dian Nuswantoro University, Indonesia)
pp. 342-346

Comparison of HSV and LAB Color Spaces for Hydroponic Monitoring System

Thomas Agung S and Setyo Aji Riwinanto (Politeknik Negeri Semarang, Indonesia); Suhendro S (Politeknik Negeri Semarang, Indonesia); Helmy Helmy and Arif Nursyahid (Politeknik Negeri Semarang, Indonesia); Ari Sriyanto Nugroho (Politeknik Negeri Semarang, Indonesia)
pp. 347-352

Automatic Docking Based on Visual Feedback on Remotely Operated Vehicle

Muhammad Qomaruzzaman and Ronny Mardiyanto (Institut Teknologi Sepuluh Nopember, Indonesia)
pp. 353-358

Performance Improvement of Human Activity Recognition based on Ensemble Empirical Mode Decomposition

Enda Wista Sinuraya (Diponegoro University, Indonesia); Yosua Alvin Adi Soetrisno (Diponegoro University & Faculty of Engineering, Indonesia); Denis Denis (Diponegoro University, Indonesia); Aminuddin Rizal (National Taiwan University of Science and Technology, Taiwan)

pp. 359-364

Naive Bayes Classifier For Prediction Of Volcanic Status In Indonesia

Firman Tempola (Universitas Khairun Ternate, Indonesia)

pp. 365-369

Case Based Reasoning For Determining The Feasibility Of Scholarship Grantees Using Case Adapation

Firman Tempola (Universitas Khairun Ternate, Indonesia)

pp. 370-374

A Development of Executive Information Based on Satisfaction Level of Students

Mochammad Facta, Eflita Yohana, Karina Adhiriva and Awalina Sayekti (Diponegoro University, Indonesia)

pp. 375-378

Compressive Sensing Approach with Double Layer Soft Threshold for ECVT Static Imaging

Nur Afny Catur Andryani (Tanri Abeng University & University of Indonesia, Indonesia); Dodi Sudiana and Dadang Gunawan (Universitas Indonesia, Indonesia)

pp. 379-384

Context-based Hydrology Time Series Data for A Flood Prediction Model Using LSTM

Indrastanti Ratna Widiyasari (Satya Wacana Christian University & Universitas Gadjah Mada, Indonesia)

pp. 385-390