2018 12th International Conference on Telecommunication Systems, Services, and Applications (TSSA 2018)

Yogyakarta, Indonesia 4-5 October 2018



**IEEE Catalog Number: ISBN:** 

Number: CFP1891P-POD 978-1-5386-6941-9

# Copyright $\odot$ 2018 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP1891P-POD

 ISBN (Print-On-Demand):
 978-1-5386-6941-9

 ISBN (Online):
 978-1-5386-6940-2

### **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

E-mail: curran@proceedings.com Web: www.proceedings.com



#### **Table of Contents**

## THE EFFECT OF LATENCY ON SELFISH MINER ATTACK ON BLOCK RECEIVETIME BITCOIN NETWORK USING NS3

Bellia Dwi Cahya Putri and Riri Fitri Sari

### FORECAST OF SPECTRUM REQUIREMENT FOR MOBILE BROADBAND

Irsyad Ridwany and Iskandar

Design and Implementation of Real-time Object Tracking System based on Viola-Jones Algorithm for Supporting Video Conference

Bangsa Edwiranda, Bryan Christy Purba and Yoanes Bandung

Design and Implementation of WebRTC-Based Video Conference System in Odroid Board Bryan Christy Purba, Muhammad Diva Pasha and Yoanes Bandung

Home-Scale Vertical Axis Wind Turbine Design

Rini Handayani, Anak Agung Gde Agung, Marlindia Ike Sari and Naufal Mudhoffar Sastradikusumah

Planar Array Antenna with Radiation Pattern Reconfigurability Using PIN Diode Sitia Gamawati Erta Lestari and Achmad Munir

A Comparison Application of the Genetic and Steepest Ascent Hill Climbing Algorithm in the Preparation of the Crossword Puzzle Board

Yoppy Sazaki, Anggina Primanita, Hadipurnawan Satria and Rezi Apriliansyah

Performance Analysis of Microstrip Circular Patch Antenna Composed of Artificial Dielectric Material Hepi Ludiyati, Yugyta Prafitri, Rheyuniarto Sahlendar Asthan and Achmad Munir

SCOR and AHP Based Monitoring Dashboard to Measure Rice Sourcing Performance at Indonesian Bureau of Logistics

Muhammad Fadil Novar, Ari Yanuar Ridwan and Budi Santosa

Design and Study of Rectangular Patch Antenna Array for High Altitude Platform Station Ryan Fikri, Muhammad Ammar Wibisono and Iskandar

Differentially Proximity Coupled Ring Printed Antenna Array For L-Band SAR Application Rheyuniarto Sahlendar Asthan and Achmad Munir

E-Key Prototype Implementation Based on Short Message Service (SMS) Technology Lia Kamelia, Eki Ahmad Zaki Hamidi and Akhmad Jazuli Baskara

SR-Based Printed Antenna Array with Reduced Size *Mochamad Yunus, Yamato Tan and Achmad Munir* 

Analysis of SIW BPF Performance Influenced by Number of CSRRs Incorporation Rusdi Affandi, Nanang Ismail, Hardi Nusantara and Achmad Munir

2100 MHz Spectrum Refarming In Indonesia Mohammad Ridwan Effendi and Adis Alifiawan

Design And Realization of Low Noise Amplifier at 3 GHz Frequency for T/R Module Eki Ahmad Zaki Hamidi, Agus Wandi Sholihuddin and Yana Taryana

Forensic Analysis of Android-based Instant Messaging Application Imam Riadi and Arizona Firdonsyah

Thin Clients as Memoryless Computer for Reducing Digital Divide in East Indonesia *Rini Handayani and Gaous Afrizal* 

The Calculation of Gyroscope Sensor Angles Using Several Integral Methods Nanang Ismail, Abdurrahman Nurhakim and Hendri Maja Saputra

Development of E-Marketplace in Department of Agriculture Food Crops and Horticulture as a Means to Expand The Market of Processed Food

Rusydi Umar, Jefree Fahana and Agus Triyono

Miniaturization of 2.4GHz SIW Antenna Using Complimentary Split Ring Resonator Ade Saputra, Nanang Ismail, Mochamad Yunus and Achmad Munir

IoT Based Organic Waste Burner for Wood Vinegar Production Yamato Tan, Mochamad Rizky Rahmadi, Evyta Wismiana, Mochamad Yunus and Achmad Munir

## DEVELOPMENT OF MONITORING REVERSE LOGISTIC SYSTEM FOR LEATHER TANNING INDUSTRY USING SCOR MODEL

Rangga Yudhista Kuswandi, Ari Yanuar Ridwan and Rosad Ma'ali El Hadi

## DEVELOPMENT OF CYCLE COUNTING MONITORING DASHBOARD WITH BUFFER TIME MANAGEMENT FOR COCOA COMPANY

Eriko Mahtamtama, Ari Yanuar Ridwan and Budi Santosa

Scrum Implementation for Online Transaction Processing (OLTP) in Hospital Management Tedy Setiadi and Syauqi Bima Premapasha

Implementation of Information Retrieval Using Tf-Idf Weighting Method On Detik.Com's Website Arfiani Nur Khusna and Indri Agustina

# SIMILARITY DETECTION OF STUDENT ASSIGNMENTS USING ROCCHIO METHOD Dewi Soyusiawaty, Anna Hendri Soleliza Jones and Panggah Widiandana

Book Data Content Similarity Detector With Cosine Similarity (Case study on digilib.uad.ac.id) Dewi Soyusiawaty and Yahya Zakaria

Feature Selection with Combination Classifier use Rules-Based Data Mining for Diagnosis of Coronary Heart Disease

Dwi Normawati and Sri Winiarti

Tomography Image Reconstruction using Parallel-Beam Projection at Microwave Frequency Ricky Willyantho and Achmad Munir

The Implementation of K-Means Clustering Method in Classifying Undergraduate Thesis Titles Lisna Zahrotun, Nila Hutami Putri and Arfiani Nur Khusna

Marketplace Seller Recommender with User-Based Multi Criteria Decision Making *Murein Miksa Mardhia and Dwi Normawati* 

Utilization of the Gesture Library For Learning Java Characters Interactive Nur Rochmah Dyah Puji Astuti, Ika Arfiani and Doni Nur Laksono

Circular Waveguide Array for Radio Frequency Energy Harvesting

Muhammad Panji Kusuma Praja, Mohammad Sigit Arifianto and Achmad Munir

## ASYMMETRIC CARRIER AGGREGATION ON LTE-ADVANCED ACCESS NETWORKS Nivika Tiffany Somantri and Iskandar Iskandar

A Simulation of Cache Replacement Strategy on Named Data Network

Hamonangan Situmorang, Nana Rachmana Syambas, Tutun Juhana and Ian Yosef Matheus Edward

Performance analysis of OFDM system augmented with SC diversity combining technique in presence of CFO

Aanchal Jhingan, Lavish Kansal, Gurjot Singh Gaba, Faisel Tubbal, Suhila Abulgasem

BER analysis of GFDM system augmented with SC diversity combining scheme for diverse Pulse Shaping Filters

Pawan Kumar, Lavish Kansal, Gurjot Singh Gaba, Mohamed El Bakkali, Faisel Tubbal, Suhila Abulgasem

Overhead of Named Data Networking Routing Protocol

Tody Ariefianto Wibowo, Nana Rachmana Syambas and Hendrawan Hendrawan

Application Analysis of Bandwidth License Fee for Point-To-Point Microwave Link Radio Communication System

Denny Setiawan, Irwan Salim, Cahya Budi Muhammad and Anna C. Situmorang

Assessment of IT Governance of Bakti Internet Access Program Based on the COBIT5 Framework Raditya Muhammad and Ian Yosef Matheus Edward

Error Pointing Correction System Implemented in the Air Balloon Communication System Hervin Hidayat, Muhammad Ammar Wibisono, Ryan Fikri, Siti Maria Ulfa and Iskandar Iskandar

The Decision Accuracy of Acquaintance List from Different Risk-cost Analysis *Yudha Purwanto, Kuspriyanto Kuspriyanto, Hendrawan Hendrawan and Budi Rahardjo* 

ROI Based Post Image Quality Assessment Technique on Multiple Localized Filtering Method on Kinect Sensor

Kholilatul Wardani, Aditya Kurniawan, Eueung Mulyana and Hendrawan Hendrawan

Sum Rate of Massive MIMO Systems Deploying Uniform Circular Planar Array Base Station Antenna *Irma Zakia* 

Leveraging SDN for Handover in Distributed Mobility Management of 5G Network Rifqy Hakimi, Harashta Tatimma Larasati, Alvin Mustafa and Abdallah A. Abu-Arabia