2014 IEEE International Conference on Aerospace Electronics and Remote Sensing Technology

(ICARES 2014)

Yogyakarta, Indonesia 13-14 November 2014



IEEE Catalog Number: ISBN:

CFP1496Y-POD 978-1-4799-6189-4



TABLE OF CONTENTS

| No | Title | Page | Paper |
|----|---|--------|------------|
| | | number | Number |
| 1 | A Method for Determining the Dimension of Planar Monopole Triangular Antenna | 63 | 1570027785 |
| 2 | A Real-Time Monocular Vision-based Frontal Obstacle Detection and Avoidance for Low Cost UAVs in GPS Denied Environment | 189 | 1569991641 |
| 3 | A Utility Aircraft for Remote Sensing Missions with a High-Precision Automatic Flight Control System | 1 | 1569989441 |
| 4 | ADCS Requirements of Lapan-A3 Satellite Based on Image Geometry Analysis | 142 | 1569994089 |
| 5 | An Analysis on the Lift Generation for Coandă Micro Air Vehicles | 164 | 1570004019 |
| 6 | An Improved Local Similarity Measure Estimation for Change Detection in Remote Sensing Images | 234 | 1569990529 |
| 7 | ASIGN - Mission-Critical Visual Communications for Integrated Space Applications | 107 | 1570029409 |
| 8 | Attitude Control of a Multicopter using L1 augmented Quaternion based Backstepping | 170 | 1569986737 |
| 9 | Attitude Control of Bias Momentum Micro Satellite Using Magnetic and Gravity Gradient Torque | 132 | 1570023361 |
| 10 | Design and Implementation of LDPC Coding Technique on FPGA for DVB-S | 83 | 1570043619 |
| 11 | Design And Implementation of Payload Data Handling Based on Field Programmable Gate Array | 48 | 1570027723 |
| 12 | Design of a Cubesat Computer Architecture using COTS Hardware for Terrestrial Thermal Imaging | 67 | 1569990115 |
| 13 | Development of transferable rule-sets for urban areas using QuickBird satellite imagery | 229 | 1570010041 |
| 14 | Evaluation of soil erosion potential of a hilly terrain using hypsometry and E30 model | 223 | 1570020737 |
| 15 | Generic Study of Solar Radiation and Solar Wind Sailing | 147 | 1570003851 |
| 16 | Hexacopter Outdoor Flight Test Results of an Extended State Observer based Controller | 26 | 1569986265 |
| 17 | High Performance On-Board Processing and Storage for Satellite Remote Sensing Applications | 137 | 1570027709 |
| 18 | liNUSAT-1: The 1st Indonesian Inter-University Nano-Satellite for Research and Education | 114 | 1570005783 |
| 19 | Investigation of MIMO and SAR Performance on Several Applications of UWB GPR | 196 | 1570001573 |
| 20 | Modular Trajectory / Path Following Controller Using Nonlinear Error Dynamics | 157 | 1569986337 |
| 21 | Multi-Mission Low Earth Orbit Equatorial Satellite for Indonesian Regions | 121 | 1570020899 |
| 22 | Multi-objectives Optimization of Earth Observation Micro-Satellite Design Using Particle Swarm | 99 | 1569958933 |
| 23 | Multi-scale Voxel-based Algorithm for UAV-derived Point-clouds of Complex Surfaces | 205 | 1570028417 |
| 24 | New Ultra-Wideband Filters Based on Tuning Forks Shape and CSRRs | 55 | 1570029363 |



| 25 | Novel Two Position Ground Alignment Technique for Strapdown Inertial | 94 | 1570006319 |
|----|--|-----|------------|
| | Navigation System | | |
| 26 | Optimal Trajectories for RPAS with Discrete Controls and Discrete | 34 | 1569985805 |
| | Constraints | | |
| 27 | Position Tracking of a Hexacopter using a Geometric Backstepping | 20 | 1569986667 |
| | Control Law - Experimental Results | | |
| 28 | Real-time Simulation of Nonlinear Transmission Behavior in Electro- | 39 | 1569990169 |
| | Mechanical Flight Control Systems | | |
| 29 | Reference Command Shaping for Approximate Dynamic Inversion based | 179 | 1569987075 |
| | Model Reference Adaptive Control | | |
| 30 | Statistical Properties Proposed for Blind Classification OFDM Modulation | 89 | 1570032617 |
| | Scheme | | |
| 31 | The combined technique of regional atmospherically correction | 216 | 1570018331 |
| 32 | The Development of Multi-band Equatorial Orbiting POLSAR Satellite | 127 | 1570000661 |
| | Sensors | | |
| 33 | UAV & Satellite Communications- Live Mission-Critical Visual Data | 12 | 1570017497 |
| 34 | Utilizing Quadcopter as LARS Image Platform To Determine the Paddy | 210 | 1570029971 |
| | Spectral and Growth Parameter | | |
| 35 | Visual Information to enhance Time Difference of Arrival Based Acoustic | 77 | 1570028837 |
| | Localisation | | |
| 36 | Wavelet Transform Based New Interpolation Technique for Satellite | 185 | 1570030905 |
| | Image Resolution Enhancement | | |
| 37 | Wireless Sensor Networks for Microclimate Telemonitoring using ZigBee | 200 | 1570030797 |
| | and WiFi | | |