

# Sritrusta Sukaridhoto

Assistant Professor, Technology Enthusiast and Guitarist

## contact biography

**Politeknik Elektronika  
Negeri Surabaya**

Gedung Pascasarjana 9<sup>th</sup>  
Floor, Room: PS09.03  
Jl. Raya ITS Surabaya

Office: +62 (31) 5947280  
ext: 7902

Mobile: +62 823 6666 6379  
Email: dphoto@pens.ac.id

Dhoto's Homepage  
Google Scholar  
Scopus-ID  
git://iseng4h  
fb://iseng4h

## languages

Indonesian (native)  
English & Japanese

## research interests

Computer Networks,  
Human-centric, Multimedia  
& Internet of Things



Received the B.E. degree in electrical engineering, computer science program from Sepuluh Nopember Institute of Technology, Indonesia, in 2002 and the Ph.D. degree in Communication Networks Engineering from Okayama University, Japan, in 2013. He joined at Politeknik Elektronika Negeri Surabaya, Indonesia, as a lecturer in 2002. He stayed at Tohoku University, Japan, in 2004, as a visiting researcher. From 2017, He becomes Head of Human Centric Multimedia Lab, received several research grants, and also has several collaborations with government and industries. He is a technology enthusiast, his research interests

include computer networks, human-centric, immersive multimedia technology, and Industrial Internet of Things. He has received several academic awards, best paper awards, and IEEE Young Researcher Award in 2009. He is a member of IEEE.

## education

2009–2013 **Doctor** of Philosophy Okayama University, Japan  
*Engineering*

Dissertation: "A Study of Performance Improvement Methods for Real-Time Applications in Wireless Mesh Networks"  
Supervised by Prof. Nobuo Funabiki, Prof. M. Hata and Prof. Toru Nakanishi

1997–2002 **Bachelor** of Engineering Institut Teknologi Sepuluh Nopember, Indonesia

Electrical Engineering - Computer Science  
Thesis: "Implementation of IPv6 in Institute Technology Sepuluh November of Surabaya"  
Supervised by Dr. Surya Sumpeno and Dr. Supeno Mardi

## work experience

2002-Now **Politeknik Elektronika Negeri Surabaya** Surabaya, Indonesia

Rank: *Lektor*, NIDN: 0006037902

*Head of Program Studi Diluar Kampus Utama (PSDKU)*

- act as management of representative for Lamongan and Sumenep Campuses.
- job desk: manages and responsible for managing the implementation of educational programs for all study programs outside the main campus which includes the implementation of academic, non-academic, and collaborative activities.
- SK no: 118/PL14/KP/2020 - Pengangkatan jabatan Kepala Program Studi di Luar Kampus Utama (PSDKU) di lingkungan Politeknik Elektronika Negeri Surabaya.

*Assistant Professor & Head of Lab*

- 
- Graduate School of Information Technology,
    - \* Teaching and Supervision of Master students
  - Department of Multimedia Creative Technology,
    - \* Teaching and Supervision of Undergraduate students
  - Head of Human Centric Multimedia Lab
- 2019-now **PT. Daitan Citra Global (TANTRA)** Bekasi, Indonesia  
*Research n Development, we develop solution and integration in the industrial, manufacture, and IT.*
- 2019-2022 **Agile and Young, PT. Solusi Integra Indonesia** BSD, Indonesia  
*Chief technology officer, startup that working on solution and integration in the field of oil and gas, manufacture, and IT.*
- 2019-2021 **Dinas Kependudukan dan Catatan Sipil** Surabaya, Indonesia  
*IT Consultant*
- 2017, 2018 **Bank Jatim** Surabaya, Indonesia  
*IT Consultant*
- 2018 **Artha Patria - Softwate Development** Surabaya, Indonesia  
*CTO, we develop software for human resource management. Our clients: PT. Quantum, Inasgoc2018, BPKH, etc*
- 2015-2018 **UGT Sidogiri - USAT** Pasuruan, Indonesia  
*Internet Service Provider Consultant*
- 2017, 2018 **PT. Eyro Digital Technology** Surabaya, Indonesia  
*IoT, Big Data architecture Consultant*
- 2016 **Dinas Komunikasi dan Informatika** Surabaya, Indonesia  
*Network Security Consultant*
- 2014, 2019 **PT PAL SURABAYA - Kementrian Pertahanan dan Keamanan RI** Okpo, Korea  
*Research and Development of National Submarine Transfer of Technology, national research collaboration and Submarine design for weapon system, communication, and computer system*
- 2004-2009 **CISCO Certification Network Academy - Politeknik Elektronika Negeri Surabaya** Surabaya, Indonesia  
*Instructor*
- 1999-2002 **Institut Teknologi Sepuluh Nopember** Surabaya, Indonesia  
*Network Administrator of its.ac.id, manage all network devices such as switches, routers and servers.*
- 1999-2002 **Judistira Webhosting** Surabaya, Indonesia  
*Network Administrator of web hosting provider, manage all servers and web developer*

---

## award and certification

- 2022 **Best Paper Award** IES2022, Indonesia  
*Virtual Reality Application for Co-Bot Training*, Amma Liesvarastranta Haz and M Muhtadin and I Ketut Pumama and Mauridhi Hery Purnomo and Sritrusta Sukaridhoto; (2022 International Electronics Symposium (IES)), Indonesia
- 2021 **CertNexus Certified Artificial Intelligence Practioner (CAIP)** CertNexus  
Credential link
- 2020 **Exin Agile Scrum Master** EXIN  
Credential Link
- 2020 **Exin Agile Scrum Foundation** EXIN  
Credential Link
- 2020 **AgilePM Foundation** APMG International  
Credential Link
- 2020 **ISO27001 Lead Auditor - Information Security Certification** Intertek  
ID: 211206
- 2020 **CertNexus Certified Internet of Things Practioner (CIOTP)** CertNexus  
Credential link
- 2020 **Pro Tools Certified User** AVID  
Credential link
- 2019 **Best Paper Award** IES2019, Indonesia  
*Designing of a Smart Collar for Dairy Cow Behavior Monitoring with Application Monitoring in Microservices and Internet of Things-Based Systems*, Yogi Putra Pratama, Dwi Kurnia Basuki, Sritrusta Sukaridhoto, Alviansyah Arman Yusuf, Heri Yulianus, Faruq Faruq, Fariz Bramasta Putra; (2019 International Electronics Symposium (IES)), Indonesia
- 2018 **Best Paper Award** TELKOMNIKA, Indonesia  
*Implementation Integration of VaaMSN with SEMAR for Air Monitoring Solution*, Yohanes Yohanie Fridelin Panduman, Adnan Rachmat Anom Besari, Sritrusta Sukaridhoto, Rizqi Putri Nourma Budiarti, Rahardhita Widyatra Sudiby, Funabiki Nobuo; TELKOMNIKA (Telecommunication Computing Electronics and Control), Indonesia
- 2013-2016 **Dosen Joss** Politeknik Elektronika Negeri Surabaya  
Annual award for the best lecturer in department.
- 2014 **Best Paper Award** The 16th International Electronics Symposium, Indonesia  
*Application Programming Interface Design of Microkernel Based Robotics Operating System*, Adhe Widianjaya, Dadet Pramadihanto, Sritrusta Sukaridhoto; The 16th International Electronics Symposium, Indonesia
- 2009 **IEEE's Young Researcher Award** ISCE2009, Japan
- 2009 **Monbusho Scholarship for Doctoral Program** Okayama University, Japan

---

2008 **CCNA Certified**  
CISCO ID : CSC011381768

CISCO

2007 **Best Paper Award** Seminar Nasional Open-Source Software ke-2, Indonesia  
"Sistem Pendeteksi Gambar Porno", Dadet Pramadihanto, Sritrusta Sukarid-  
hoto, Muhammad Fatoni A, Rudy Cahyadi H; Prosiding Seminar Nasional  
Open Source Software ke-2 2007

## research and teaching experience

2017-Now **Human Centric Multimedia Lab - Politeknik Elektronika Negeri Surabaya**

Surabaya, Indonesia

*Head of Lab*, research areas:

- Augmented and Virtual Reality
- Human-Centric, Interaction with Computer Vision and Speech Recognition-  
Understanding
- Internet of Things and BigData
- Application of Machine Learning and Artificial Intelligence

2013-2017 **EEPIS Robotics Research Center (ER2C)**

Surabaya, Indonesia

*Senior Researcher*

Research about Cyber-Physical Systems

- MicroKernel OS for Embedded System
- Human Robot Interaction with Computer Vision and Speech Recognition-  
Understanding
- Internet of Things and BigData

2008-2013 **Distributed System Lab, Okayama University**

Okayama, Japan

*Research Assistant* under supervised by Prof. Nobuo Funabiki

Research about Communication Networks

- Wireless Mesh Networks
- Real-time wireless communication
- Mac protocol

2003-2004 **Tohoku University**

Sendai, Japan

*Visiting Reseacher* under supervised by Prof. Takafumi Aoki

Research on

- Biometric Fingerprint Matching
- Parallel Computing
- Embedded System

2002-Now **Politeknik Elektronika Negeri Surabaya**

Surabaya, Indonesia

Teaching on

- Computer Networks
- Internet of Things
- Object Oriented Programming
- Multimedia Programming
- WebXR Programming for AR/VR

---

## public and professional services

- 2020-now **International Journal of Web Information Systems** Emerald Group  
Publishing  
Reviewer
- 2020-now **Indonesia Journal of Artificial Intelligence** Institute of Advanced Engineering  
and Science (IAES)  
Reviewer
- 2020-now **Indonesia Journal of Electrical Engineering and Computer Engineer-  
ing** Institute of Advanced Engineering and Science (IAES)  
Reviewer
- 2020-now **Indonesia Journal of Electrical Engineering and Computer Science**  
Institute of Advanced Engineering and Science (IAES)  
Reviewer
- 2019-now **TELKOMNIKA** Universitas Ahmad Dahlan (UAD)  
Reviewer
- 2020-now **Indonesia Journal of Electrical Engineering and Computer Science**  
Institute of Advanced Engineering and Science (IAES)  
Reviewer
- 2019-now **Reviewer Penelitian Nasional** RISTEKBRIN  
Reviewer
- 2019-now **Asosiasi Pengusaha TIK Nasional** Indonesia  
Member
- 2016, 2019 **IEEE - International Electronics Symposium** Bali, Indonesia  
General Chair
- 2018 **IC2IE - International Conference of Computer and Informatics Engi-  
neering** Bogor, Indonesia  
Keynote Speaker
- 2018 **SEHATI - Seminar Nasional Humaniora dan Aplikasi Teknologi Infor-  
masi** Madura, Indonesia  
Keynote Speaker
- 2015-now **IAENG Member**  
Membership number: 159948
- 2009-now **IEEE Member**  
Membership number: 90775049

## research grants

- 2021 **Implementasi Spatial Big Data yang terintegrasi dengan Smart Mon-  
itoring and Analytics in Real-time (SMAR) system sebagai platform  
untuk mendukung smart city di kota Surabaya** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi (Lead) - year: 1 of 3 - Rp.  
133.210.000,-

- 
- 2021 **identifikasi kecelakaan kendaraan dan kejahatan di jalan raya berdasarkan data suara menggunakan deep learning neural network untuk membangun sistem penindera pintar lokasi kecelakaan dan kejahatan** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi (Lead) - year: 1 of 3 - Rp. 163.990.000,-
- 2020 **Implementasi Vehicle as a Mobile Sensor Network terintegrasi dengan Smart Environment Monitoring and Analytics in Real-time (SEMAR) system sebagai Pemantau Permukaan Jalan dan Lingkungan untuk mendukung Smart City** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi (Lead) - year: 3 of 3 - Rp. 143.310.000,-
- 2020 **Implementasi Teknologi Portable Ubiquitous Health (U-Health) Dengan Layanan Cloud Untuk Mendukung Smart Health Buatan Indonesia** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi - year: 3 of 3 - Rp. 132.860.000,-
- 2019 **Implementasi Vehicle as a Mobile Sensor Network terintegrasi dengan Smart Environment Monitoring and Analytics in Real-time (SEMAR) system sebagai Pemantau Permukaan Jalan dan Lingkungan untuk mendukung Smart City** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi (Lead) - year: 2 of 3 - Rp. 143.310.000,-
- 2019 **Implementasi Teknologi Portable Ubiquitous Health (U-Health) Dengan Layanan Cloud Untuk Mendukung Smart Health Buatan Indonesia** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi - year: 2 of 3 - Rp. 132.860.000,-
- 2019 **INTELLIGENT SYSTEM DEVELOPMENT FOR AUTOMATIC CLASSIFICATION OF FRUIT DEFECT** DIKTI  
Penelitian Kompetitif Nasional ( PPS-PTM ) - year: 1 of 1 - Rp. 49.600.000,-
- 2018 **Implementasi Vehicle as a Mobile Sensor Network terintegrasi dengan Smart Environment Monitoring and Analytics in Real-time (SEMAR) system sebagai Pemantau Permukaan Jalan dan Lingkungan untuk mendukung Smart City** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi (Lead) - year: 1 of 3 - Rp. 120.000.000,-
- 2018 **Implementasi Teknologi Portable Ubiquitous Health (U-Health) Dengan Layanan Cloud Untuk Mendukung Smart Health Buatan Indonesia** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi (Member) - year: 1 of 3 - Rp. 120.000.000,-
- 2018 **Revitalisasi Sistem Jejaring Radio HF Untuk Mendukung Implementasi Jejaring Radio Pemerintah – GRN** DIKTI  
Penelitian Terapan Unggulan Perguruan Tinggi (Member) - year: 1 of 3 - Rp. 130.000.000,-
- 2018 **Pusat Pendidikan dan Pelatihan Embedded System Bersertifikasi Sebagai Upaya Penyiapan Sumber Daya Manusia Menjelang Masyarakat Ekonomi ASEAN** DIKTI

- Ipteks Bagi Inovasi Kreativitas Kampus (Member) - year: 3 of 3 - Rp. 150.000.000,-  
+ Rp 50.000.000,-
- 2018 **Industrial Edge Computing** CISCO System Indonesia  
inKind
- 2018 **Industrial Internet of Things** Ichii Industries Indonesia  
inKind
- 2018 **IoT - Smartglass for Industrial Factory Assistant** TMMIN  
inKind
- 2017 **DESIGN AND DEVELOPMENT OF UNMANNED UNDERWATER VEHICLES FOR ENVIRONMENTAL MONITORING AND DATA ACQUISITION COMPATIBLE WITH 5D WORLD MAP SYSTEM IN INTERNET OF UNDERWATER THINGS** DIKTI  
Penelitian Kerjasama Luar Negeri dan Publikasi International - year: 3 of 3  
- Rp. 151.000.000,-
- 2017 **Pusat Pendidikan dan Pelatihan Embedded System Bersertifikasi Sebagai Upaya Penyiapan Sumber Daya Manusia Menjelang Masyarakat Ekonomi ASEAN** DIKTI  
Ipteks Bagi Inovasi Kreativitas Kampus - year: 2 of 3 - Rp. 189.000.000,-  
+ Rp 50.000.000,-
- 2017 **Industrial Internet of Things** Ichii Industries Indonesia  
inKind
- 2017 **CSR for Robotics and IoT** TMMIN  
inKind
- 2016 **DESIGN AND DEVELOPMENT OF UNMANNED UNDERWATER VEHICLES FOR ENVIRONMENTAL MONITORING AND DATA ACQUISITION COMPATIBLE WITH 5D WORLD MAP SYSTEM IN INTERNET OF UNDERWATER THINGS** DIKTI  
Penelitian Kerjasama Luar Negeri dan Publikasi International - year: 2 of 3  
- Rp. 160.000.000,-
- 2016 **Pusat Pendidikan dan Pelatihan Embedded System Bersertifikasi Sebagai Upaya Penyiapan Sumber Daya Manusia Menjelang Masyarakat Ekonomi ASEAN** DIKTI  
Ipteks Bagi Inovasi Kreativitas Kampus - year: 1 of 3 - Rp. 189.000.000,-  
+ Rp 50.000.000,-
- 2015 **DESIGN AND DEVELOPMENT OF UNMANNED UNDERWATER VEHICLES FOR ENVIRONMENTAL MONITORING AND DATA ACQUISITION COMPATIBLE WITH 5D WORLD MAP SYSTEM IN INTERNET OF UNDERWATER THINGS** DIKTI  
Penelitian Kerjasama Luar Negeri dan Publikasi International - year: 1 of 3  
- Rp. 157.500.000,-
- 2015 **Virtual Reality Lab sebagai penunjang Perkuliahan Terbuka Jarak Jauh (PTJJ)** Seamolec  
Penelitian Hibah PTJJ Seamolec - Rp 10.000.000,-

- 
- 2014 **PENGEMBANGAN ARSITEKTUR KOMPUTASI DAN SISTEM OPERASI ROBOTIKA UNTUK PENINGKATAN DAYA SAING APLIKASI ROBOTIKA NASIONAL** DIKTI  
Penelitian Unggulan Perguruan Tinggi - year: 2 of 5 - Rp 200.000.000,-
- 2005 **Rancang Bangun Prototype Mesin Verifikasi Sidik Jari Compact and Mobile dengan Algoritma Phase-Only Correlation Berbasis Embedded System** DIKTI  
Penelitian Hibah Bersaing - Rp 40.000.000,-
- 2005 **Studi dan Penerapan Teknologi Biometric Fingerprint Matching – Phase Only Correlation Pada Embedded System** DIKTI  
Penelitian Dosen Muda - Rp 10.000.000,-

## intellectual property rights

- 2018 **ALAT MONITORING KONDISI MOBIL SECARA REAL TIME BERBASIS INTERNET OF THINGS (IOTs)** Patent  
ID: S00201806038
- 2018 **V-Health Rest (Vehicle Health Report Assistant) – Teknologi Mobil Pintar Untuk Meningkatkan Service Dan Security Menuju Indonesia Smart City** Copyright  
ID: EC00201806826
- 2018 **PROGRAM KOMPUTER SISTEM MONITORING KONDISI MOBIL PADA ECU MOBYDIC 4910 SECARA REAL-TIME BERBASIS INTERNET OF THINGS** Copyright  
ID: EC00201807850

## interests

**research:** computer networks, embedded system, multimedia & Internet of Things  
**personal:** play guitar, read comics, have fun with my kids

## referees

### **Prof. Nobuo Funabiki**

Address: Okayama University, Room D206, Engineering Building no 2, 3-1-1 Tsushimanaka, Kita-ku, Okayama, 700-8530 JAPAN  
Email: funabiki@ec.okayama-u.ac.jp

### **Prof. Toru Nakanishi**

Address: Graduate School of Advanced Science and Engineering, Hiroshima University, 1-4-1 Kagamiyama, Higashi-Hiroshima, 739-8527, Japan  
Email: t-nakanishi@hiroshima-u.ac.jp

### **Prof. Dr.-Ing. Hendro Wicaksono**

Office: Jacob University, South Hall, Room 210 Campus Ring 1, 28759 Bremen, Germany  
Email: h.wicaksono@jacobs-university.de



---

## publications

\*

### Journals

#### Comparison of cloud computing providers for development of big data and internet of things application

Muhammad Fajrul Falah, Yohanes Yohanie Fridelin Panduman, Sritrusta Sukaridhoto, Arther Wilem Cornelius Tirie, M. Cahyo Kriswanto, Bayu Dwiyan Satria, Saifudin Usman  
*Indonesian Journal of Electrical Engineering and Computer Science* 22 (3 June 2021). 2021

#### Design of Virtual Engineering and Digital Twin Platform as Implementation of Cyber-Physical Systems

Muhammad Fajrul Falah, Sritrusta Sukaridhoto, Muhammad Udin Harun Al Rasyid, Hendro Wicaksono  
*Procedia Manufacturing* 52 (Jan. 2020) pp. 331–336. Elsevier BV, 2020

#### Music Scoring for Film Using Fruity Loops Studio

Arysa Febrian, Hestiasari Rante, Sritrusta Sukaridhoto, Akhmad Alimudin  
*E3S Web of Conferences* 188 (Sept. 2020). 2020

#### PENGUKURAN PSNR PADA TRANSMISI VIDEO DI KANAL TERAHERTZ MENGGUNAKAN QAM MODULATION

Tamara Maharani, Muhammad Agus Zainuddin, Sritrusta Sukaridhoto  
*KLIK - KUMPULAN JURNAL ILMU KOMPUTER* 7 (2 June 2020) p. 154. 2020

#### Implementation SEMAR-IoT-Platform for Vehicle as a Mobile Sensor Network

Yohanes Yohanie Fridelin Panduman, Sritrusta Sukaridhoto, Anang Tjahjono, Rizqi Putri Nourma Budiarti  
*JOIV : International Journal on Informatics Visualization* 4 (4 Dec. 2020) p. 201. 2020

#### Edge Computing Implementation for Action Recognition Systems

Afis Asryullah Pratama, Yohanes Yohanie, Fridelin Panduman, Dwi Kurnia Basuki, Sritrusta Sukaridhoto  
*Scientific Journal of Informatics* 7 (2 2020). 2020

#### Design and Implementation of Hypothermia Symptoms Early Detection With Smart Jacket Based on Wireless Body Area Network

M. Udin Harun Al Rasyid, Sritrusta Sukaridhoto, Amang Sudarsono, Afdolash Nur Kaffah  
*IEEE Access* 8 (2020) pp. 155260–155274. 2020

#### Integration of IoT and chatbot for aquaculture with natural language processing

M. Udin Harun Al-Rasyid, Sritrusta Sukaridhoto, Muhammad Iskandar Dzulkornain, Ahmad Rifai  
*TELKOMNIKA (Telecommunication Computing Electronics and Control)* 18 (2 Apr. 2020). 2020

#### PENGENALAN TEKNOLOGI VIRTUAL REALITY DAN AUGMENTED REALITY SEBAGAI PENDUKUNG EDUKASI UNTUK SEKOLAH MENENGAH DI GRESIK

Sritrusta Sukaridhoto, Hestiasari Rante, Muhammad Agus Zainuddin, Rizqi Putri Nourma Budiarti  
*Community Development Journal* 4 (1 2020). 2020

#### Implementation of Oxymetry Sensors for Cardiovascular Load Monitoring When Physical Exercise

Dhodit Rengga Tisna, M. Udin Harun Al Rasyid, Sritrusta Sukaridhoto  
*EMITTER International Journal of Engineering Technology* 8 (1 June 2020) pp. 178–199. 2020

#### Analisis and Implementation Cloud-based Biometric authentication in Mobile Platform

Agostinho Marques Ximenes, Sritrusta Sukaridhoto, Amang Sudarsono, Hasan Basri  
*Jurnal Ilmiah Kursor* 10 (2 2020). 2020

#### INTELLIGENT SYSTEM FOR AUTOMATIC CLASSIFICATION OF FRUIT DEFECT USING FASTER REGION-BASED CONVOLUTIONAL NEURAL NETWORK (FASTER R-CNN)

Hasan Basri, Iwan Syarif, Sritrusta Sukaridhoto, Muhammad Fajrul Falah  
*Kursor* 10 (1 2019). 2019

---

**Monitoring Detak Jantung untuk Atlet Lari 100 Meter Berbasis Internet of Things**

Muhammad Aksa Hidayat, Sritrusta Sukaridhoto, Achmad Basuki, Muhammad Fajrul Falah  
INTEK: Jurnal Penelitian 6 (2 2019). 2019

**THE IMPLEMENTATION OF HEART RATE SENSOR AND MOTION SENSORS BASED ON INTERNET OF THINGS FOR ATLETE PERFORMANCE MONITORING**

Muhammad Aksa Hidayat, Sritrusta Sukaridhoto, Achmad Basuki, Udin Harun Al Rasyid, Ika Fad-hila Aryanti, Agus Prasetyo  
Kursor 10 (1 2019). 2019

**Implementation of data abstraction layer using kafka on SEMAR platform for air quality monitoring**

Yohanes Yohanie Fridelin Panduman, Mochamad Rifki Ulil Albaab, Adnan Rachmat Anom Besari, Sritrusta Sukaridhoto, Anang Tjahjono, Rizqi Putri Nourma Budiarti  
International Journal on Advanced Science, Engineering and Information Technology 9 (5 2019) pp. 1520–1527. *Insight Society*, 2019

**Performance Evaluation of Integrated Deep Learning Web Platform for Dataset Training**

Sritrusta Sukaridhoto, Dwi Kurnia Basuki, Heri Yulianus, Rizqi Putri Nourma Budiarti  
Applied Technology and Computing Science Journal 2 (2 Mar. 2019) pp. 117–128. *Universitas Nahdlatul Ulama Surabaya*, 2019

**Performance Evaluation of Integrated Deep Learning Web Platform for Dataset Training**

Sritrusta Sukaridhoto, Dwi Kurnia Basuki, Heri Yulianus, Rizqi Putri Nourma Budiarti  
Applied Technology and Computing Science Journal 2 (2 2019) pp. 117–128. 2019

**Mobile Platform Biometric Cloud Authentication**

Agostinho Marques Ximenes, Sritrusta Sukaridhoto, Amang Sudarsono, Hasan Basri  
INTEK: Jurnal Penelitian 6 (2 2019). 2019

**Aplikasi DIY Smart Trash Berbasis IoT Open Platform**

Rizqi Putri Nourma Budiarti, Jordan Maulana, Sritrusta Sukaridhoto  
Applied Technology and Computing Science Journal 1 (2 2018) pp. 93–104. 2018

**Implementation of Integration VaaMSN and SEMAR for Wide Coverage Air Quality Monitoring**

Yohanes Yohanie Fridelin Panduman, Adnan Rachmat Anom Besari, Sritrusta Sukaridhoto, Rizqi Putri Nourma Budiarti, Rahardhita Widyatra Sudibyo, Funabiki Nobuo  
TELKOMNIKA (Telecommunication, Computing, Electronics and Control) 16 (6 2018) pp. 2630–2642. *Universitas Ahmad Dahlan*, 2018

**Distributed Database Semantic Integration of Wireless Sensor Network to Access the Environmental Monitoring System**

Ubaidillah Umar, M. Udin Harun Al Rasyid, Sritrusta Sukaridhoto  
International Journal of Engineering and Technology Innovation, 8 (3 2018) pp. 157–172. *Directory of Open Access Journals*, 2018

**Real Performance Evaluation On MQTT and COAP Protocol in Ubiquitous Network Robot Platform (UNRPF) for Disaster Multi-robot Communication**

Muhammad Ikrar Yamin, Son Kuswadi, Sritrusta Sukaridhoto  
EMITTER International Journal of Engineering Technology 6 (2 Dec. 2018) p. 369. 2018

**Implementation of Integration VaaMSN and SEMAR for Wide Coverage Air Quality Monitoring**

Yohanes Yohanie, Fridelin Panduman, Adnan Rachmat, Anom Besari, Sritrusta Sukaridhoto, Rizqi Putri, Nourma Budiarti, Rahardhita Widyatra Sudibyo, Funabiki Nobuo  
TELKOMNIKA 16 (6 2018) pp. 2630–2642. 2018

**Design and development of low cost coral monitoring system for shallow water based on internet of underwater things**

A.F. F Abdillah, M.H. H Berlian, Y.Y.F. Y F Panduman, M.A.W. A W Akbar, M.A. A Afifah, A. Tjahjono, S. Sukaridhoto, S. Sasaki  
Journal of Telecommunication, Electronic and Computer Engineering 9 (2-5 2017). 2017

---

**Classification extension based on IoT-big data analytic for smart environment monitoring and analytic in real-time system**

Riyadh Arridha, Sritrusta Sukaridhoto, Dadet Pramadihanto, Nobuo Funabiki  
*International Journal of Space-Based and Situated Computing 7 (2 Jan. 2017) pp. 82–93. Inderscience Publishers, 2017*

**Merging of Depth Image Between Stereo Camera and Structure Sensor on Robot " FloW " Vision**

Dadet Pramadihanto, Ardiansyah Alfarouq, Suryo Aji S.A. Waskitho, Sritrusta Sukaridhoto  
*International Journal on Advanced Science, Engineering and Information Technology 7 (3 2017). 2017*

**An Embedded System for applying High Performance Computing in Educational Learning Activity**

Dadet Pramadihanto, Sritrusta Sukaridhoto, Irene Erlyn Wina Rachmawan, M. Unggul Pamenang, M. Choirur Roziqin, Nurul Fahmi, Samsul Huda, Edi Wahyu Widodo, Andri Permana W.  
*EMITTER International Journal of Engineering Technology 4 (1 Aug. 2017) pp. 46–64. 2017*

**Real time global scheduling analysis for generalized dag task upon heterogeneous machine**

A. Widianjaya, D. Pramadihanto, S. Sukaridhoto  
*Journal of Telecommunication, Electronic and Computer Engineering 9 (2-5 2017). 2017*

**Performance of Implementation IBR-DTN and Batman-Adv Routing Protocol in Wireless Mesh Networks**

Herman Yuliandoko, Sritrusta Sukaridhoto, M Udin, Harun Al Rasyid, Nobuo Funabiki, Udin Harun Al Rasyid, Nobuo Funabiki  
*EMITTER International Journal of Engineering Technology 3 (1 2015). 2015*

**Indonesian Automatic Speech Recognition for Command Speech Controller Multimedia Player**

Vivien Arief Wardhany, Sritrusta Sukaridhoto, Amang Sudarsono, Amang Sudarsono  
*EMITTER International Journal of Engineering Technology 2 (2 Dec. 2014) pp. 39–48. 2014*

**A fixed backoff-time switching method for CSMA/CA protocol in wireless mesh networks**

Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi, Kan Watanabe, Shigeto Tajima  
*IEICE Transactions Communication 96 (4 2013) pp. 1019–1029. 2013*

**A Smart Access-Point Selection Algorithm for Scalable Wireless Mesh Networks**

Nobuo Funabiki, Sritrusta Sukaridhoto, Masaharu Hata, Shigeru Tomisato, Toru Nakanishi, Kan Watanabe, Shigeto Tajima  
*IAENG International Journal of Computer Science 38 (3 2011) pp. 260–267. 2011*

**Rancang Bangun Prototipe Mesin Verifikasi Sidik Jari Portabel dengan Algoritma Phase-Only Correlation pada Embedded System**

Sritrusta Sukaridhoto, Nonot Harsono  
*Electronic Engineering Polytechnic Institute of Surabaya (EEPIS) – Journal 12 (2 2007) pp. 35–41. 2007*

**Development of a Computer Cluster with Embedded CPUs**

Sritrusta Sukaridhoto, Yoshifumi Sasaki, Koichi Ito, Takafumi Aoki  
*Electronic Engineering Polytechnic Institute of Surabaya (EEPIS) – Journal (2004). 2004*

\*

**Conferences/Proceedings**

**Action Recognition with Spatiotemporal Analysis and Support Vector Machine for Elderly Monitoring System**

Mahaputra Ilham Awal, Luqmanul Hakim Iksan, Rizky Zull Fhamy, Dwi Kurnia Basuki, Sritrusta Sukaridhoto, Kazuyoshi Wada  
*International Electronics Symposium 2021: Wireless Technologies and Intelligent Systems for Better Human Lives, IES 2021 - Proceedings, 2021*

**Smart Odontogram: Dental Diagnosis of Patients Using Deep Learning**

---

Excel Daris Fadhillah, Pravasta Caraka Bramastagiri, Riyanto Sigit, Sritrusta Sukaridhoto, Arya Brahmana, Bima Sena Bayu Dewantara  
*International Electronics Symposium 2021: Wireless Technologies and Intelligent Systems for Better Human Lives, IES 2021 - Proceedings, 2021*

**Design and Development of Human Anatomy Learning Platform for Medical Students Based on Augmented Intelligence Technology**

Evianita Dewi Fajrianti, Sritrusta Sukaridhoto, Muhammad Udin Harun Al Rasyid, Rizqi Putri Nourma Budiarti, Ilham Achmad Al Hafidz, Naufal Adi Satrio, Ardiman Firmanda  
*International Electronics Symposium 2021: Wireless Technologies and Intelligent Systems for Better Human Lives, IES 2021 - Proceedings, 2021*

**Design of Collaborative WebXR for Medical Learning Platform**

Ilham Achmad Al Hafidz, Sritrusta Sukaridhoto, Muhammad Udin Harun Al Rasyid, Rizqi Putri Nourma Budiarti, Rachma Rizqina Mardhotillah, Rizki Amalia, Evianita Dewi Fajrianti, Naufal Adi Satrio  
*International Electronics Symposium 2021: Wireless Technologies and Intelligent Systems for Better Human Lives, IES 2021 - Proceedings, 2021*

**Implementation of Cloud Based Action Recognition Backend Platform**

Luqmanul Hakim Iksan, Mahaputra Ilham Awal, Rizky Zull Fhamy, Afis Asryullah Pratama, Dwi Kurnia Basuki, Sritrusta Sukaridhoto  
*AIMS 2021 - International Conference on Artificial Intelligence and Mechatronics Systems, 2021*

**PIECES Framework Method to Measure the Effectiveness of Obesity Explainer Animation Videos**

Zakiyyatul Miskiyah, Widi Sarinastiti, Sritrusta Sukaridhoto  
*International Electronics Symposium 2021: Wireless Technologies and Intelligent Systems for Better Human Lives, IES 2021 - Proceedings, 2021*

**Implementation of SUMO Simulation for Comparison of CVRP**

Yohanes Yohanie Fridelin Panduman, Sritrusta Sukaridhoto, Muhammad Agus Zainuddin, Rizqi Putri Nourma Budiarti  
*International Electronics Symposium 2021: Wireless Technologies and Intelligent Systems for Better Human Lives, IES 2021 - Proceedings, 2021*

**Cost Effective of Online Graduation Ceremony at SDIT AL-USWAH Surabaya**

R. P. N. Budiarti, S. Sukaridhoto, M. Fandi  
*Prosiding SEMADIF, 2020*

**Development of Virtual Engineering Platform for Online Learning System**

Hudzaifah Ro'fatulhaq, Sandy Arif Wicaksono, Muhammad Fajrul Falah, Sritrusta Sukaridhoto, Muhammad Agus Zainuddin, Hestiasari Rante, Muhammad Udin Harun Al Rasyid, Hendro Wicaksono  
*2020 International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM), 2020*

**3D Asset for Web-based Virtual Engineering Platform as Implementation of Industry 4.0**

Erlangga Hendrika Putra Utama, Dwi Kurnia Basuki, Sritrusta Sukaridhoto  
*3rd International Conference on Applied Science and Technology, iCAST 2020, 2020*

**Vending Machine Monitoring System Integrated with Webserver**

M.W. Asyhari, R. Sigit, S. Sukaridhoto  
*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**Faster R-CNN implementation method for multi-fruit detection using tensorflow platform**

H. Basri, I. Syarif, S. Sukaridhoto  
*International Electronics Symposium on Knowledge Creation and Intelligent Computing, IES-KCIC 2018 - Proceedings, 2019*

**Big Data Technologies using SVM (Case Study: Surface Water Classification on Regional Water Utility Company in Surabaya)**

Rizqi Putri Nourma Budiarti, Sritrusta Sukaridhoto, Mochamad Hariadi, Mauridhi Hery Purnomo

**Big Data Technologies using SVM (Case Study: Surface Water Classification on Regional Water Utility Company in Surabaya)**

R.P.N. Budiarti, S. Sukaridhoto, M. Hariadi, M.H. Purnomo

*Proceedings - 2019 International Conference on Computer Science, Information Technology, and Electrical Engineering, ICOMITEE 2019, 2019*

**Scoring Music for Montage Movies**

Arsya Inzaghi Febrian, Hestiasari Rante, Sritrusta Sukaridhoto

*2019 5th International Conference on Education and Technology, ICET 2019, 2019*

**Implementation of microservice architectures on SEMAR extension for air quality monitoring**

Y.Y. Fridelin, M.R. Ulil Albaab, A.R. Anom Besari, S. Sukaridhoto, A. Tjahjono

*International Electronics Symposium on Knowledge Creation and Intelligent Computing, IES-KCIC 2018 - Proceedings, 2019*

**Implementation of K-NN Fingerprint Method on Receiving Server for Indoor Mobile Object Tracking**

G.P. Gempita, D. Wilasari, P. Kristalina, S. Sukaridhoto

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**Virtual hand: VR hand controller using IMU and flex sensor**

M. Hilman, D.K. Basuki, S. Sukaridhoto

*International Electronics Symposium on Knowledge Creation and Intelligent Computing, IES-KCIC 2018 - Proceedings, 2019*

**Brightness on LEDs for Light Fidelity Applications and Measurements**

T. Maharani, M.A. Zainuddin, S. Sukaridhoto

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**A Survey of IoT Platform Comparison for Building Cyber-Physical System Architecture**

Yohanes Yohanie Fridelin Panduman, Sritrusta Sukaridhoto, Anang Tjahjono

*2019 2nd International Seminar on Research of Information Technology and Intelligent Systems, ISRITI 2019, 2019*

**Designing of a Smart Collar for Dairy Cow Behavior Monitoring with Application Monitoring in Microservices and Internet of Things-Based Systems**

Y.P. Pratama, D. Kurnia Basuki, S. Sukaridhoto, A.A. Yusuf, H. Yulianus, F. Faruq, F.B. Putra

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**A Spots Independent for NVIS Channels Observation**

Okkie Puspitorini, Tri Budi Santoso, Titon Dutono, Ari Wijayanti, Zulmi Zakaryiah, Haniah Mahmudah, Nur Adi Siswandari, S. Sukaridhoto

*2018 International Electronics Symposium on Engineering Technology and Applications (IES-ETA), 2019*

**Identification of Symptoms Based on Natural Language Processing (NLP) for Disease Diagnosis Based on International Classification of Diseases and Related Health Problems (ICD-11)**

F.B. Putra, A. Arman Yusuf, H. Yulianus, Y.P. Pratama, D. Salma Humairra, U. Erifani, D.K. Basuki, S. Sukaridhoto, R.P. Nourma Budiarti

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**Pothole Visual Detection using Machine Learning Method integrated with Internet of Thing Video Streaming Platform**

A. Rasyid, M.R.U. Albaab, M.F. Falah, Y.Y.F. Panduman, A.A. Yusuf, D.K. Basuki, A. Tjahjono, R.P.N. Budiarti, S. Sukaridhoto, F. Yudianto, H. Wicaksono

---

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**Pothole Visual Detection using Machine Learning Method integrated with Internet of Thing Video Streaming Platform**

Alfandino Rasyid, Mochammad Rifki Ulil Albaab, Muhammad Fajrul Falah, Yohanes Yohanie Fridelin Panduman, Alviansyah Arman Yusuf, Dwi Kurnia Basuki, Anang Tjahjono, Rizqi Putri Nourma Budiarti, Sritrusta Sukaridhoto, Firman Yudianto

*2019 International Electronics Symposium (IES), 2019*

**Web Explainer for Children's Education with Image Recognition Based on Deep Learning**

M.F. Risal, S. Sukaridhoto, H. Rante

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**Message passing support for FLoW microkernel**

I.P. Setiawan, S. Sukaridhoto, D. Pramadihanto

*International Electronics Symposium on Knowledge Creation and Intelligent Computing, IES-KCIC 2018 - Proceedings, 2019*

**Comparison of Video IPTV and Digital TV DVB-T2 Quality for Indonesia TV Broadcast**

B.A. Sujak, C. Devi Murdaningtyas, M.E. Anggraeni, S. Sukaridhoto

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**IES 2019 Welcome Message from General Chair**

S. Sukaridhoto

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**AT-Mo: Wireless Data Collection System for Physiology Monitoring of Athlete**

D.R. Tisna, M. Udin Harun Al Rasyid, S. Sukaridhoto

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**The Vehicle as a Mobile Sensor Network base IoT and Big Data for Pothole Detection Caused by Flood Disaster**

A. Mochamad Rifki Ulil, Fiannuridin, S. Sukaridhoto, A. Tjahjono, D.K. Basuki

*IOP Conference Series: Earth and Environmental Science, 2019*

**The Vehicle as a Mobile Sensor Network base IoT and Big Data for Pothole Detection Caused by Flood Disaster**

A Mochamad Rifki Ulil, Sritrusta Sukaridhoto, Anang Tjahjono, Dwi Kurnia Basuki

*IOP Conference Series: Earth and Environmental Science, 2019*

**Implementation QR Code Biometric Authentication for Online Payment**

A.M. Ximenes, S. Sukaridhoto, A. Sudarsono, M.R. Ulil Albaab, H. Basri, M.A. Hidayat Yani, C. Chang Choon, E. Islam

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**Implementation of Motion Capture System for Swimmer Athlete Monitoring**

M.A. Hidayat Yani, S. Bayu Aji, I.F. Ariyanti, S. Sukaridhoto, M.A. Zainuddin, A. Basuki

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**ArmChain - A Blockchain Based Sensor Data Communication for the Vehicle as a Mobile Sensor Network**

A.A. Yusuf, D. Kurnia Basuki, S. Sukaridhoto, Y.P. Pratama, F. Bramasta Putra, H. Yulianus

*IES 2019 - International Electronics Symposium: The Role of Techno-Intelligence in Creating an Open Energy System Towards Energy Democracy, Proceedings, 2019*

**MatCounter: Footsteps Counter Using DanceMat by Bluetooth Based Android Application**

Birou Novi Cahyani, Sritrusta Sukaridhoto, Hestiasari Rante

---

*2018 International Conference on Computer Engineering, Network and Intelligent Multimedia, CENIM 2018 - Proceeding, 2018*

**Design and Development of Smart Aquaculture System Based on IFTTT Model and Cloud Integration**

M.I. Dzulqornain, M.U. Harun Al Rasyid, S. Sukaridhoto  
*MATEC Web of Conferences, 2018*

**Implementation of Microservice Architectures on SEMAR Extension for Air Quality Monitoring**

Yohanes Yohanie Fridelin, Mochamad Rifki Ulil Albaab, Adnan Rachmat Anom Besari, Sritrusta Sukaridhoto, Anang Tjahjono  
*2018 International Electronics Symposium on Knowledge Creation and Intelligent Computing (IES-KCIC), 2018*

**Design and Development of Portable Spirometer**

M. Udin Harun Al Rasyid, Kemalasari, Muhammad Sulistiyo, Sritrusta Sukaridhoto  
*2018 IEEE International Conference on Consumer Electronics-Taiwan, ICCE-TW 2018, 2018*

**Integration Head Mounted Display Device and Hand Motion Gesture Device for Virtual Reality Laboratory**

Y.A. A Rengganis, M. Safrodin, S. Sukaridhoto  
*IOP Conference Series: Materials Science and Engineering, 2018*

**Web-based Business to Customer (B2C) Implementation on Rekamin.ID: the Unmanned Aerial Vehicle (UAV) Drone Services Business**

Muhammad Idris Setiawan, Sritrusta Sukaridhoto, Hestiasari Rante, Firlian Fitriani Mashita  
*2018 International Conference on Computer Engineering, Network and Intelligent Multimedia, CENIM 2018 - Proceeding, 2018*

**Multi process matching depth image between stereo camera and structure sensor in real-time**

R Anjarlistiawan, A A Farouq, S Sukaridhoto, R S Dewanto, D Pramadihanto  
*2017 International Electronics Symposium on Engineering Technology and Applications (IES-ETA), 2017*

**Preliminary design of mobile visual programming apps for Internet of Things applications based on Raspberry Pi 3 platform**

A R A Besari, I K Wobowo, S Sukaridhoto, R Setiawan, M R Rizqullah  
*2017 International Electronics Symposium on Knowledge Creation and Intelligent Computing (IES-KCIC), 2017*

**Design and development virtual reality athletic Virtual imagery to train sprinter's concentration**

M M Choiri, A Basuki, A Y Bagus, S Sukaridhoto, M Jannah  
*2017 International Electronics Symposium on Knowledge Creation and Intelligent Computing (IES-KCIC), 2017*

**Digital signature on file using biometric fingerprint with fingerprint sensor on smartphone**

E Rahmawati, M Listyasari, A S Aziz, S Sukaridhoto, F A Damastuti, M M Bachtiar, A Sudarsono  
*2017 International Electronics Symposium on Engineering Technology and Applications (IES-ETA), 2017*

**True random and adjustable memory management evaluation framework with Markov chain**

A S Shahab, D Pramadihanto, S Sukaridhoto, A Widianjaya  
*2017 International Electronics Symposium on Knowledge Creation and Intelligent Computing (IES-KCIC), 2017*

**Design and development of a portable low-cost COTS-based water quality monitoring system**

S. Sukaridhoto, R.W. W Sudiby, W. Sarinastiti, R. Dharmawan, A. Sasono, A.A. A Saputra, S. Sasaki  
*Proceeding - 2016 International Seminar on Intelligent Technology and Its Application, ISITIA 2016: Recent Trends in Intelligent Computational Technologies for Sustainable Energy, 2017*

**FloW vision: Depth image enhancement by combining stereo RGB-depth sensor**

S.A. A Waskitho, A. Alfarouq, S. Sukaridhoto, D. Pramadihanto  
*2016 International Conference on Knowledge Creation and Intelligent Computing, KCIC 2016, 2017*

---

**Simple and energy efficient discrete cosine transform based image compression for simple pulse-based modulation**

M A Zainuddin, S Sukaridhoto

*2017 International Electronics Symposium on Engineering Technology and Applications (IES-ETA), 2017*

**Design and implementation of smart environment monitoring and analytics in real-time system framework based on internet of underwater things and big data**

M H Berlian, T E R Sahputra, B J W Ardi, L W Dzatmika, A R A Besari, R W Sudibyo, S Sukaridhoto

*2016 International Electronics Symposium (IES), 2016*

**Preliminary design of interactive visual mobile programming on educational robot ADROIT V1**

A R A Besari, S Sukaridhoto, I K Wibowo, M H Berlian, M A W Akbar, F P Yohanes Yohanie, K I Aldi Bayu

*2016 International Electronics Symposium (IES), 2016*

**Design and Development of A Portable Low-Cost COTS-based Water Quality Monitoring System**

Sritrusta Sukaridhoto, Rahardhita Sudibyo, Widi Sarinastiti, RizkyDharmawan, Atit Sasono, Ahmad Andika Saputra, Shiori Sasaki

*2016 International Seminar on Intelligent Technology and Its Applications (ISITIA) (ISITIA 2016), 2016*

**Design and Development of A Portable Low-Cost COTS-based Water Quality Monitoring System**

Sritrusta Sukaridhoto, Rahardhita Sudibyo, Widi Sarinastiti, RizkyDharmawan, Atit Sasono, Ahmad Andika Saputra, Shiori Sasaki

*2016 International Seminar on Intelligent Technology and Its Applications (ISITIA) (ISITIA 2016), 2016*

**Smart presentation system using hand gestures and Indonesian speech command**

V.A. A Wardhany, M.H. H Kurnia, S. Sukaridhoto, A. Sudarsono, D. Pramadihanto

*Proceedings - 2015 International Electronics Symposium: Emerging Technology in Electronic and Information, IES 2015, 2016*

**Point Cloud Library (PCL): Module sample<sub>consensus</sub>**

Suryo Aji Waskitho, Ardiansyah Alfarouq, Sritrusta Sukaridhoto, Dadet Pramadihanto

*2016 International Conference on Knowledge Creation and Intelligent Computing (KCIC), 2016*

**FLoW head: 7 DOF mechanism for FLoW humanoid**

Bayu Setiawan, Oxy Giandi, Dadet Pramadihanto, R.S. Raden Sanggar Dewanto, Sritrusta Sukaridhoto, A.S. Ahmad Subhan Khaillullah, Sanggar Dewanto, Sritrusta Sukaridhoto, Achmad Subhan KHalilullah

*ICCEREC 2015 - International Conference on Control, Electronics, Renewable Energy and Communications, 2015*

**A Design of 3D Virtual Reality Chemical Lab with Hand Gesture Interaction for Education**

Sritrusta Sukaridhoto, Juang Mahmud Hasbulloh, Prasetio Nugroho, Lukman Hakim

*The 5th Annual Basic Science International Conference 2015, 2015*

**A design of radio-controlled submarine modification for river water quality monitoring**

Sritrusta Sukaridhoto, Dadet Pramadihanto, Taufiqurrahman, Muhammad Alif, Andrie Yuwono, Nobuo Funabiki

*2015 International Seminar on Intelligent Technology and Its Applications (ISITIA), 2015*

**FLoW: Achieve Native Multi Threading Support for Embedded System Through Microkernel**

Adhe Widianjaya, Tito Pramudana, Dadet Pramadihanto, Sritrusta Sukaridhoto, Achmad Subhan Khalilullah

*International Conference on Control, Electronics, Renewable Energy, and Communications (ICCEREC), 2015*

**Secure Content Exchange in Delay Tolerant Networks Using Attribute-Based Encryption**

Amang Sudarsono, Sritrusta Sukaridhoto, Toru Nakanishi, Nobuo Funabiki

*Proceeding of The 3rd Indonesian-Japanese Conference on Knowledge Creation Intelligent Computing 2014 (KCIC2014), 2014*

**Simple Interactive Projector Based on Hand Gesture Movement**



- 
- Sritrusta Sukaridhoto, Mohammad Hasbi Assidiqi, Novenda Nur Alfath Salim  
*The 16th International Electronics Symposium, 2014*
- Development of Hand Detection and Voice Command Controller for Multimedia Player**  
Vivien Wardhany, La Rayhan Haddy, Luthfia Witanti, Sritrusta Sukaridhoto, Amang Sudarsono, Artiarini Kusuma Nurindiyani, Fardani Annisa Damastuti  
*The 16th International Electronics Symposium, 2014*
- Application Programming Interface Design of Microkernel Based Robotics Operating System**  
Adhe Widianjaya, Dadet Pramadihanto, Sritrusta Sukaridhoto  
*The 16th International Electronics Symposium, 2014*
- A Design for OpenFlow Implementation of Fixed Backoff-time Switching Method in Wireless Mesh**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi, Kan Watanabe  
*Proceedings of the Society Conference of IEICE 2013, 2013*
- A fixed backoff-time switching method for wireless mesh networks: Design and Linux implementation**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Dadet Pramudihanto, Zainal Arief  
*2013 International Conference on Information Technology and Electrical Engineering (ICITEE), 2013*
- Further Investigation on Building and Benchmarking A Low Power Embedded Cluster for Education**  
Sritrusta Sukaridhoto, Achmad Subhan KHalilullah, Dadet Pramadihanto, Achmad Subhan KHalilullah, Dadet Pramadihanto  
*Applied Technology, Science, and Arts, 2013*
- An Idea of Linux Implementation of Fixed Backoff-time Switching Method for Wireless Mesh Networks**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi, Kan Tajima, Watanabe Shigeto  
*Proceedings of the Society Conference of IEICE 2012, 2012*
- A proposal of CSMA fixed backoff-time switching protocol and its implementation on QualNet simulator for wireless mesh networks**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi, Kan Watanabe  
*2012 26th International Conference on Advanced Information Networking and Applications Workshops, 2012*
- A Linux Implementation Design of Fixed Backoff-time Switching Method for Wireless Mesh Networks**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi, Kan Watanabe, Shigeto Tajima  
*IEICE Technical Report NS2012-67, 2012*
- An implementation of fixed backoff-time switching method on IEEE 802.11 MAC protocol for wireless Internet-access mesh network**  
Nobuo Funabiki, Sritrusta Sukaridhoto, Zhe Wang, Toru Nakanishi, Kan Watanabe, Shigeto Tajima  
*International Workshop on Smart Info-Media Systems in Asia (SISA 2011), 2011*
- A proposal of a traffic control method with consumed bandwidth estimation for real-time applications in wireless mesh networks**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi  
*2011 IEEE 15th International Symposium on Consumer Electronics (ISCE), 2011*
- An Implementation and Evaluation of Fixed Backoff-time Switching Method on QualNet for Wireless Mesh Network**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi, Kan Watanabe  
*IEICE Technical Report NS2011-49, 2011*
- Implementation Naked Object Detection on Firefox Internet Browser using Cascade of Boosted Classifiers Based on Haar-Like Features Algorithm”**  
Rizqi Putri Nourma Budiarti, Mochamad Hariadi, Sritrusta Sukaridhoto, Nobuo Funabiki  
*The 18th Indonesian Scientific Conference in Japan, 2010*

- 
- A Proposal of Traffic Control Method with Bandwidth Usage Estimation for Real-Time Applications in Wireless Mesh Networks**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi  
*IEICE Technical Report NS2010-109, 2010*
- Linux dan Implementasi Sistem Pendeteksi Gambar Porno**  
Sritrusta Sukaridhoto, Dadet Pramadihanto, Mochamad Hariadi, Muhammad Fatoni, Rudy Cahyadi, Rizqi Putri N B, Nobuo Funabiki  
*Indoesian Linux Conference, 2010*
- A comparative study of open source softwares for virtualization with streaming server applications**  
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi, Dadet Pramadihanto  
*2009 IEEE 13th International Symposium on Consumer Electronics, 2009*
- Sistem Pendeteksi Gambar Porno**  
Dadet Pramadihanto, Sritrusta Sukaridhoto, Muhammad Fatoni A, Rudy Cahyadi H P  
*Prosiding Seminar Nasional Open Source Software ke-2, 2007*
- Database dan Website Terdistribusi via VPN pada studi kasus Website UMPN Online**  
Udin Harun Al Rasyid, Sritrusta Sukaridhoto, Ferry Hendrayana, Anggietyas Pratiwi, Zainal Abidin  
*Proceeding Industrial Electronics Seminar (IES), 2007*
- Implementasi Sinkronisasi Adzan Masjid**  
Sritrusta Sukaridhoto  
*Proceedings The 8th Seminar on Intelligent Technology and Its Applications (SITIA), 2007*
- Rancang Bangun Robot Berbasis PDA**  
Sritrusta Sukaridhoto, Titon Dutono, Nonot Harsono, Amang Sudarsono, Akuwan Saleh, Arief Furqon, Endro Subko  
*Proceeding Industrial electronics Seminar (IES), 2007*
- Membangun Virtual Class dengan Fitur Ajax Chating dan Ujian Online**  
Sritrusta Sukaridhoto, Ahmad Zaki Wahyudi, Nonot Harsono  
*Prosiding Seminar Nasional Open Source Software ke-2 P2 Informatika LIPI ISSN 1978-7510 2007, 2007*
- Pengendalian Model 3 Dimensi Wajah Melalui Pendeteksian dan Tracking Titik Fitur Wajah” (Facial Feature Tracking Based Template Matching on Image Sequence)**  
Bitaria Citra Dewi, Zulfan Hakim, Sritrusta Sukaridhoto, Dadet Pramadihanto  
*Seminar Nasional Teknologi Informasi, 2006*
- Teknik Pemetan Wilayah Secara Cepat dan Akurat Menggunakan GPS yang Dikoordinasikan Melalui Jaringan 3G atau yang Setara**  
Nonot Harsono, Ahmad Subhan, Sritrusta Sukaridhoto, Amang Sudarsono  
*Prosiding Konferensi Nasional Teknologi Informasi dan Komunikasi Untuk Indonesia, 2006*
- Model Distributed-Data Processing Berbasis Open-Source Untuk Pengolahan Data Kependudukan Dalam Rangka Implementasi E-Gov Indonesia**  
Nonot Harsono, Sritrusta Sukaridhoto, Ahmad Subhan, Amang Sudarsono  
*Prosiding Konferensi Nasional Teknologi Informasi dan Komunikasi Untuk Indonesia, 2006*
- Rancang Bangun Portable Data-Entry Untuk Pendataan Sidik Jari Pendudukan Menggunakan Embedded System Berbasis Open-Source Dalam Rangka Implementasi E-Gov Indonesia**  
Nonot Harsono, Sritrusta Sukaridhoto, Ahmad Subhan, Amang Sudarsono  
*Prosiding Konferensi Nasional Teknologi Informasi dan Komunikasi Untuk Indonesia, 2006*
- Pengendalian Model 3 Dimensi Wajah Melalui Pendeteksian dan Traking Titik Fitur Wajah**  
Rosyidina Safitri, Zulfan Hakim, Sritrusta Sukaridhoto, Dadet Pramadihanto  
*Seminar Nasional Teknologi Informasi, 2006*
- Teknik Keamanan pada VoIP dengan Virtual Private Networking dan Kriptografi Serta Korelasi Terhadap Bandwidth dan Intelligibility Suara**

---

Sritrusta Sukaridhoto, Titon Dutono, Nonot Harsono, Iwan Sarif, Deni Kurniawan, Zen Samsono, Deni Kurniawan

*The Indonesian Conference on Telecommunication (ICTEL), 2006*

**Aplikasi Penjualan Tiket Berbasis Teknologi Life Like Character**

Sritrusta Sukaridhoto, Titon Dutono, Dadet Pramadihanto, Wahyudin Aziz, Zulfan Hakim, Taufik Wicaksono, Hadi Surya, Bitaria Citra Dewi, Sari Rachmawati, Rosyidina Safitri

*Proceeding Industrial Electronics Seminar (IES), 2006*

**Implementasi Campus Internet Prepaid berbasis Aplikasi Open-Source (studi kasus internet untuk mahasiswa di Politeknik Elektronika Negeri Surabaya)**

Sritrusta Sukaridhoto, Anang Tjahyono, Iqbal Firmansyah

*The Indonesian Conference on Telecommunication (ICTEL), 2006*

**Rancang Bangun Sistem Pengamanan Rumah Otomatis / Home Awareness : Aplikasi Pelaporan via SMS, Interactive-Voice-Response, dan Web-Camera Terkendali**

Sritrusta Sukaridhoto, Haryadi Amran Darwito, Akuwan Saleh

*Electronic Engineering Polytechnic Institute of Surabaya (EEPIS) – Journal, 2005*

**Pengembangan Linux Cluster dengan Menggunakan OpenMoxsix**

Idris Winarno, Iwan Syarif, Sritrusta Sukaridhoto

*Seminar Nasional Teknologi Informasi, 2005*

**Development of a Compact Cluster with Embedded CPUs**

Sritrusta Sukaridhoto, Yoshifumi Sasaki, Koichi Ito, Takafumi Aoki

*Proceeding Industrial Electronics Seminar (IES), 2004*

**Sistem Monitoring Trafik Paket Internet Melalui WAP Berbasis SNMP**

Sritrusta Sukaridhoto, Nanang Syahroni, Arief Suhardiono, Aris Nur Bawani

*Seminar Nasional Teknik Indonesia, 2003*

**Sistem Transmisi Informasi SMS Pada Context-Aware Devices**

Nanang Syahroni, Amang Sudarsono, Sritrusta Sukaridhoto

*Proceeding Industrial Electronic Seminar (IES), 2003*

**Perancangan Sistem Monitoring Paket Internet Pada Peralatan Jaringan Multi Interface**

Nanang Syahroni, Sritrusta Sukaridhoto, Arief Suhardiono, Aris Nur Bawani

*Seminar Nasional Teknik Indonesia, 2003*

\*

**Books**

**Buku Jaringan Komputer I**

Sritrusta Sukaridhoto

*Politeknik Elektronika Negeri Surabaya, 2014*

**Jaringan Komputer Nirkabel**

Sritrusta Sukaridhoto

*Politeknik Elektronika Negeri Surabaya, 2009*

**Jaringan Komputer 2**

Sritrusta Sukaridhoto

*Politeknik Elektronika Negeri Surabaya, 2008*

**Jaringan Komputer**

Sritrusta Sukaridhoto

*Politeknik Elektronika Negeri Surabaya, 2005*

---

## **signature**

The fully truth of the details are guaranteed. With strong sense of responsibility, hands on management and communication skills. Strong loyalty and self-motivation.

regards,

**Sritrusta Sukaridhoto, ST. Ph.D.**