

**LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : PROSIDING**

Judul Karya Ilmiah : Calculation of Phantom Volume for Computed Tomography (CT) Scan Images
 Penulis/ Jumlah Penulis : **Kusworo Adi**, Catur Edi Widodo, Aris Sugiharto, Qidir Maulana B. S., Adi Pamungkas/ 5 orang
 Status Pengusul : Penulis ke-1
 Identitas Prosiding : a. Judul Prosiding : The 3rd International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE 2016)
 b. ISBN/ISSN : 978-1-5090-0890-2
 c. Thn Terbit, Tempat Pelaks. : 2016, Semarang
 d. Penerbit/Organiser : Department of Electrical Engineering Universitas Diponegoro/ IEEE
 e. Alamat Repository/Web : <https://www.icitacee.undip.ac.id/index.php/icitacee/2016>
 Alamat Artikel : <https://ieeexplore.ieee.org/document/7892443>
 f. Terindeks di (jika ada) : Scopus SJR: 0,13 (2018)
<https://www.scimagojr.com/journalsearch.php?q=21100812376&tip=sid&clean=0>

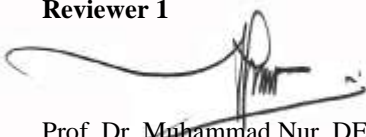
Kategori Publikasi Makalah : *Prosiding* Forum Ilmiah Internasional
 (beri ✓ pada kategori yang tepat) *Prosiding* Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer 1	Reviewer 2	
a. Kelengkapan unsur isi prosiding (10%)	2,40	2,70	2,55
b. Ruang lingkup dan kedalaman pembahasan (30%)	7,40	8,80	8,10
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,40	8,90	8,15
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	7,40	8,90	8,15
Total = (100%)	24,60	29,30	26,95

Semarang, 8 Mei 2020

Reviewer 1



Prof. Dr. Muhammad Nur, DEA
 NIP. 195711261990011001
 Unit Kerja : Departemen Fisika - FSM UNDIP

Reviewer 2



Prof. Dr. Heri Sutanto, SSi, MSi
 NIP. 197502151998021001
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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input checked="" type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	3,00		2,40
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		7,40
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		7,40
d. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9,00		7,40
Total = (100%)	30,00		24,60
Nilai Pengusul =			

Catatan Penilaian artikel oleh Reviewer :

1. Kelengkapan unsur isi prosiding:

Artikel ini ditulis sesuai dengan standard IEEE. Kebaruan dikemukakan dengan jelas

2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup cukup luas dan dibahas dengan baik

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

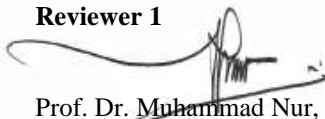
Referensi mutakhir, data dan informasi yang masih baru saat penerbitan serta metoda standard yang dapat direfleksikan oleh mereka yang sebidang

4. Kelengkapan unsur dan kualitas terbitan:

Penerbitan sudah standard IEEE, lengkap dengan unsur unsur yang menjadi persyaratan IEEE. Penerbitan di IEEE Explore terindex Scopus SJR: 0,13 (2018), nilai maksimum 25

Semarang, 8 Mei 2020

Reviewer 1



Prof. Dr. Muhammad Nur, DEA

NIP. 195711261990011001

Unit Kerja : Departemen Fisika - FSM UNDIP

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input checked="" type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	3,00		2,70
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		8,80
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		8,90
c. Kelengkapan unsur dan kualitas terbitan /prosiding (30%)	9,00		8,90
Total = (100%)	30,00		29,30
Nilai Pengusul =			

Catatan Penilaian artikel oleh Reviewer :

- Kelengkapan unsur isi jurnal:**
 Artikel telah ditulis secara lengkap mulai dari judul, abstrak, pendahuluan hingga referensi dan sebagian sesuai template penerbit IEEE secara online. Penulisan author belum mengikuti template online IEEE. Scope prosiding IEEE relevan dengan topik artikel yang ditulis.
- Ruang lingkup dan kedalaman pembahasan:**
 Ruang lingkup dan kedalaman pembahasan sudah baik dan mendalam. Perhitungan volume fantom dengan CT scan sudah dilakukan dengan baik dan jelas. Paper belum mengkaitkan hasil dari peneliti lain.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:**
 Data penelitian yang diperoleh sangat memadai. Hasil penelitian sudah sesuai dengan metodologi riset yang dilakukan. Artikel disusun berdasarkan referensi yang masih minim dengan total 6 referensi dan 50% kategori tidak mutakhir.
- Kelengkapan unsur dan kualitas terbitan:**
 Secara umum kelengkapan unsur artikel lengkap. Kualitas penerbit IEEE baik. Prosiding IEEE terindeks Scopus, SJR (2018) 0.13.

Semarang, 4 Mei 2020

Reviewer 2



Prof. Dr. Heri Sutanto, SSi, MSi

NIP. 197502151998021001

Unit Kerja : Departemen Fisika - FSM UNDIP

ISBN : 978-1-5090-1434-7



THE 3rd INTERNATIONAL CONFERENCE
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“**GREEN TECHNOLOGY**
STRENGTHENING IN INFORMATION TECHNOLOGY,
ELECTRICAL AND COMPUTER ENGINEERING
IMPLEMENTATION”

PROCEEDINGS

SEMARANG, 19TH - 21ST OCTOBER 2016



**UNIVERSITAS
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IEEE

Proceedings

2016 3rd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE 2016)

October 19-21st, 2016, Semarang, Indonesia

Editor:

Mochammad Facta
Munawar Agus Riyadi
Eko Didik Widiyanto
M. Arfan

Proceedings

2016 3rd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE 2016)

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Publisher :

Department of Electrical Engineering
Diponegoro University

ISBN : 978-1-5090-1434-7 (PRINT, Part Number : CFP1689Z-PRT)

ISBN : 978-1-5090-1433-0 (DVD, Part Number : CFP1689Z-DVD)

ISBN : 978-1-5090-0890-2 (XPLORE COMPLIANT, Part Number : CFP1689Z-ART)

Additional copies may be ordered to:
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Semarang, Indonesia 50275

Greetings from the General Chair

Welcome to 2016 the 3rd International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE) held in Semarang, Central Java, Indonesia. This conference provides a forum for researchers, academicians, professionals, and students from various engineering background and also from interdisciplinary research in the development and the design of Information Technology and Computer, Power System, Circuit and Control, and Communication Systems, as well as the interdisciplinary topics to disseminate the latest issues and research.

The ICITACEE 2016 is held in @Hom Hotel, Semarang, on October 19th – 21st. Three distinguished scholars will start the session as keynote speakers: Prof. Dr. Yanuarsyah Haroen as Power Electronic expert from Bandung Institute of Technology, Dr. Muhammad Nadzir Marsono as SoC FPGA Expert from Universiti Teknologi Malaysia (UTM), and Dr. Syed Abdurrahman as a DSP and Image Processing expert from Universiti Teknologi Malaysia (UTM). We are very grateful for them to share their knowledge, experience, and their motivation for always doing the best. We recently received more than 120 papers, however only of 91 high quality papers were accepted and being presented in this event. All the accepted and presented papers will be then published in the IEEE Xplore (ISBN 978-1-5090-0890-2). We will select the best papers of each categories mentioned above.

Organizing such an ambitious conference has always been incredibly challenging and would have been impossible to happen without our outstanding committee support. I would like to thanks all staff of Department of Electrical Engineering and Department of Computer Engineering as well as IEEE Student Branch of Diponegoro University. They have been working very hard and been always providing me with unprecedented support, advice, and kind assistance on all aspects of the conference. Special thank goes to the IEEE Indonesia Section for all support to ICITACEE 2016. I also would like to thank all of the Steering Committee, Technical Program Committee, Reviewers, Authors, Session Organizers, and Chairs, and other volunteers and participants. I expect that everyone is able to enjoy some of what Semarang City especially Simpang Lima (Five Cross) has to offer. Hopefully the ICITACEE 2016 conference would become the event of our best deeds.

Abdul Syakur

General Chair

2016 3rd International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE)

FOREWORD FROM CHIEF OF ELECTRICAL ENGINEERING DEPARTMENT DIPONEGORO UNIVERSITY, SEMARANG-INDONESIA

In the Name of Allah, the Most Gracious, Most Merciful.

All the praises and thanks to Allah.

Welcome all of the participants and keynote speakers to the International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE 2016) in Semarang. This is the third international conference held together by Electrical Engineering Department and Computer Engineering Department of Engineering Faculty, Universitas Diponegoro. I would like to appreciate the measureless work in this conference as a collaborative effort among Electrical Engineering Department, Computer Engineering Department, IEEE Student Branch of Universitas Diponegoro, and IEEE Indonesia Section. I would like to express my deep appreciation to Organizing Committee members, staffs, and students of Electrical Engineering and Computer Engineering Department for their effort and support. I would like to extend our appreciation to Rector of Universitas Diponegoro and Dean of Engineering Faculty.

I hope that this conference will be a prestige forum to communicate and sharing the findings, and precious researches among experts in field of computer engineering, information technology, and electrical engineering. We are extremely happy that this event will give contribution to global development of Computer Engineering, Information Technology, and Electrical Engineering.



Dr. Wahyudi, S.T., M.T.
Chief of Electrical Engineering Department
Engineering Faculty
Universitas Diponegoro, Semarang – Indonesia.

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2016 3rd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)

October 19th – 21st, 2016 at @HOM Hotel, Semarang, INDONESIA

ICITACEE 2016

Conference Technical Program Overview

A1. Electric & Power System (Wednesday: October 19th, 2016. 12:30-14:45) LEXICON

No	Paper ID	Title	Authors
1	EPS-01	Investigation of Temperature Rise Considering the Stator Parameters in a High-Speed Spindle Motor	Wawan Purwanto, Jerry Chih Tsong Su
2	EPS-02	Voltage Balancing Circuits for Five-Level Power Inverter With A Single DC Voltage Source	Suroso, Abdullah Nur Aziz
3	EPS-03	The Use of Neural Network (NN) to Predict Voltage Drop during Starting of Medium Voltage Induction Motor	Fidelis Galla Limbong
4	EPS-04	Research on Positive Narrow Bipolar Events in Padang	Ariadi Hazmi, Primas Emeraldi, M. Imran Hamid, Nobuyaki Takagi
5	EPS-05	Minimization of Cogging Torque Based on Different Shape of Anti Notch Method	Herlina, Rudy Setiabudy, Uno Bintang Sudibyo
6	EPS-06	Investigation the Influence of Variation Number and different width of Anti Notch to Cogging Torque Reduction	Rudy Setiabudy, Herlina
7	EPS-07	Voltage Drop Simulation at Southern Sulawesi Power System Considering Composite Load Model	Ardiaty Arief, Muhammad Bachtiar Nappu
8	EPS-08	Analytical Design of Sea Wave Energy Power Plant Using Tubular Linear PM Generator in Southern Coast of Yogyakarta, Indonesia	Budi Azhari, Fransisco Danang Wijaya, Dewangga Adhyaksa, Wassy Prawinnetou
9	EPS-09	Reduction on Cogging Torque in Dual Stator Radial Flux Permanent Magnet Generator for Low Speed Wind Turbine	Adeguna Ridlo Pramurti, Eka Firmansyah, Suharyanto

A2. Electric & Power System (Wednesday: October 19th, 2016. 15:15-17:30) LEXICON

No	Paper ID	Title	Authors
1	EPS-10	Network Losses Reduction Due To New Hydro Power Plant Integration	Muhammad Bachtiar Nappu, Muhammad Imran Bachtiar, Ardiaty Arief

No	Paper ID	Title	Authors
2	EPS-11	Electrical and Temperature Correlation to Monitor Fault Condition of ZnO Surge Arrester	Novizon and Zulkarnain Abdul-Malek
3	EPS-12	Discrimination of Particle-Initiated Defects in Gas-Insulated System Using C4.5 Algorithm	Firmansyah Nur Budiman, Elvira Sukma Wahyuni
4	EPS-13	Enhanced Fault Ride -Through Ability of DFIG-Based Wind Energy System Using Superconducting Fault Current Limiter	Chandan Kumar Sharma, Subhendu Sekhar Sahoo, Kalyan Chatterjee
5	EPS-14	Design of Photovoltaic BLDC Motor-Water Pump System with Single Converter	Slamet Riyadi
6	EPS-15	Integrated LC Resonant Converter and Silent Discharge Ozonizer for Colour Removal	Mochammad Facta, Hermawan, Zolkafle Buntat
7	EPS-17	A Prototype of Multistage Dynamic Braking of Three Phase Squirrel Cage Induction Motor	Tejo Sukmadi, Syauqie Candra Buana, Trias Andromeda, Mochammad Facta
8	EPS-18	Application of Dielectric Barrier Discharge Plasma for Reducing Chemical Oxygen Demand (COD) on Industrial Rubber Waste Treatment	Abdul Syakur, Badrus Zaman, Fauzan, Nur Jannah, Nurmaliakasih Dias Yunita

B1. Electronic Circuit & Control (Wednesday: October 19th, 2016. 12:30-14:45) OLIVETTI

No	Paper ID	Title	Authors
1	ECC-01	Human Tracking Application in a Certain Closed Area Using RFID Sensors and IP Camera	Daniel Patricko Hutabarat, Darma Patria, Santoso Budijono, Robby Saleh
2	ECC-02	Designing And Implementation Of Autonomous Quadrotor As Unmanned Aerial Vehicle	Felix Yustian Setiono, Anthony Candrasaputra, Tobias Bimo Prasetyo, Kho Lukas Budi Santoso
3	ECC-03	Multi Channel Electromyography (EMG) Signal Acquisition based Microcontroller	Florentinus Budi Setiawan, Siswanto
4	ECC-04	ECG Signal Processing using Offline-Wavelet Transform Method based on ECG-IoT Device	Amri Faizal, Muhammad Ilham R, and Arjon Turnip
5	ECC-06	Trans-impedance Amplifier (TIA) Design for Visible Light Communication (VLC) using Commercially Available OP-AMP	Syifaul Fuada, Angga Pratama, Trio Adiono, Yulian Aska



2016 3rd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)

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No	Paper ID	Title	Authors
6	ECC-07	Robot Arm Controlled By Muscle Tension Based On Electromyography And PIC18f4550	Ricky Fajar Adiputra, Florentinus Budi Setiawan
7	ECC-08	A Low Cost Anthropomorphic Prosthetic hand Using DC Micro Metal Gear motor	Mochammad Ariyanto, Munadi, Gunawan D. Haryadi, Rifky Ismail, Jonny A. Pakpahan, and Khusnul A. Mustaqim
8	ECC-09	New watershed segmentation algorithm based on hybrid gradient and self-adaptive marker extraction	Li Yuan, Yu Qingsong, Shen Chaomin, Hu Wenxin
9	ECC-10	Variations on Load and Distance Controller for Ropeless Elevator with Fuzzy	Ainil Syafitri, Iwa Garniwa MK, Iwa Garniwa MK, I Made Ardita
10	ECC-11	Fuzzy-PID Simulations on Ropeless Elevator Performance	Ainil Syafitri, Iwa Garniwa MK, Ridwan Gunawan, I Made Ardita
11	ECC-12	A Simple Proportional plus PD Sign for Asymptotically Stable Robot Manipulators	Adha Cahyadi, Samiadji Herdjunto, Herianto
12	ECC-13	Arrival Time Field Based Path Planning Algorithm for Mobile Robot	Imaduddin A. Majid, Adha Imam Cahyadi, Igi Ardiyanto, and Muhammad Saifussalam

B2. Electronic Circuit & Control (Wednesday: October 19th, 2016. 15:15-17:30) OLIVETTI

No	Paper ID	Title	Authors
1	ECC-14	Design of Soft Contact Lens Indexer Inspection Semi Automatic	Didi Istardi, Kemas Syaiful
2	ECC-15	Yuarm: A Low Cost Android Platform for Vision Based Manipulators Control	Sisdarmanto Adinandra, Dani Erfawan
3	ECC-16	Development of Unmanned Aerial Vehicle (UAV) Ornithopter with Wireless Radio Control	Farika T Putri, Mochammad Ariyanto, Ismoyo Haryanto, Moh. Arozi, Wahyu Caesarendra, M. Rizki Ibrahim Hanan
4	ECC-17	Comparison Methods of Edge Detection for USG Images	M. Khairudin, Dessy Irmawati
5	ECC-18	Ultrasonic Signal Denoising Based on Wavelet Haar Decomposition Level	Herlinawati, Umi Murdika, Grienda Elan, Titin Yulianti



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No	Paper ID	Title	Authors
6	ECC-19	Sliding Mode Control for Therapeutic Pool Model Control System	Munadi, Henry Kristianto, Mochammad Ariyanto, Ismoyo Haryanto, Hari Peni Julianti
7	ECC-20	Experiment of Networked Control System (NCS) Using Network Emulator	Indra Sakti, Dicky Rianto Prajitno
8	ECC-21	Brainwave-Controlled Applications with the Emotiv EPOC Using Support Vector Machine	Kha Hoang Ha, Vo Anh Kha, Dinh Quoc Hung
9	ECC-22	Development of Hovercraft Prototype with Stability Control System using PID Controller	Munawar A Riyadi, Lazyo Rahmando, Aris Triwiyatno
10	ECC-23	Design of Color Based Object Sorting Through Arm Manipulator with Inverse Kinematics Method	Sumardi, Lanang Febriramadhan, Aris Triwiyatno
11	ECC-24	Designing Internal-External Control Method for Delta Robot Prototype to Manipulate Non-Linear Movement Object	Aris Triwiyatno, Muhammad Fikko Fadjrimiratno, Sumardi
12	ECC-25	Real Time Classification of SSVEP Brain Activity with Adaptive Feedforward Neural Networks	Arjon Turnip, M. Ilham Rizqyawan, Dwi Esti K, Jasman Pardede, Sandi Yanyoan, Edi Mulyana
13	ECC-28	Fuzzy-Mamdani Inference System in Predicting the Correlation Between Learning Method, Discipline and Motivation with Student's Achievement	Juningtyastuti, Fransiskus Allan Gunawan

C1. Information & Computer Technologies (Wednesday: October 19th, 2016. 12:30-14:45) OLYMPIA

No	Paper ID	Title	Authors
1	ICT-01	Calculation of Phantom Volume for Computed Tomography (CT) Scan Images	Kusworo Adi, Catur Edi Widodo, Aris Sugiharto, Qidir Maulana B. S., Adi Pamungkas
2	ICT-02	Design and Development of Android-based Cloud ECG Monitoring System	Muhammad Ilham Rizqyawan, M. Faizal Amri, Rian Putra Pratama, Arjon Turnip
3	ICT-03	Designing Framework for Software Reuse Maturity Improvement	Bagus Setyawan Wijaya, Yudi Satria Gondokaryono



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No	Paper ID	Title	Authors
4	ICT-04	Performance Evaluation of Teleprotection Using OpenDSS	Muhammad Kahlil Firdaus, Muhammad Hamdani Rizal, Muhammad Raid Mukhtar, Riri Fitri Sari
5	ICT-05	Design Architecture Enterprise Service Bus to Support Multi-Tenant Client and Resource Provider	Taufik Sulaeman Puspanegara, Albarda
6	ICT-06	Data Envelopment Analysis - Analytic Hierarchy Process Method for Performance Evaluation Study Program	Ali Wedo Sarjono, Farikhin Farikhin, Catur Edi Widodo
7	ICT-07	Eating for physical rather than emotional: A Bayesian Belief Network Approach for Android-Based Intuitive Eating Measurement	Anggita Dian Cahyani, Meiliana, Widodo Budiharto
8	ICT-08	Detection of the Beef Quality Using Mobile-Based K-Mean Clustering Method	Oky Dwi Nurhidayati, Kusworo Adi, Sri Pujiyanto
9	ICT-09	English – Indonesian Phrase Translation using Recurrent Neural Network and ADJ Technique	Wenty Octoviani, Muhammad Fachrurrozi, Novi Yusliani
10	ICT-10	IT Adoption Strategy to Promote Batik Micro-Scale Industry in Central Java, Indonesia Strengthening Universities Role In Batik Micro-Scale Industry	Rinta Kridalukmana, Naili Farida, Hari Susanta Nugraha
11	ICT-11	The Study of Theory of Planned Behavior of Building Automation System in Industrial Sector	Shu-Chiang Lin , Jacky Chin
12	ICT-12	A Literature Review of Question Answering System using Named Entity Recognition	Rini Wongso, Meiliana, Derwin Suhartono
13	ICT-13	The Benefit the Web 2.0 Technologies in Higher Education: Student's Perspectives	Yohana Dewi Lulu Widyasari, Lukito Edi Nugroho, Adhistya Erna Permanasari

C2. Information & Computer Technologies (Wednesday: October 19th, 2016. 15:15-17:30) OLYMPIA

No	Paper ID	Title	Authors
1	ICT-14	A New Image Watermarking Scheme Using Contourlet Transforms	Sy C. Nguyen, Kha H. Ha, Hoang M. Nguyen
2	ICT-15	Detection Plagiarism Documents On Indonesian Using Min-Hash And Synonym Recognition	Muhammad Badriansyah Putra



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7	ICT-34	Optimizing MySQL Database System on Information Systems Research , publications and Community Service	Kodrat Iman Satoto, R. Rizal Isnanto, Rinta Kridalukmana , Kurniawan Teguh Martono,
8	ICT-35	Information Technology Audit For Management Evaluation Using COBIT and IT Security	Assaf Arief, Iis Hamsir Ayub Wahab
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2	TRF-03	Implementation of Ultrasonic Communication for Wireless Body Area Network Using Amplitude Shift Keying Modulation	Muhammad Harry Bintang Pratama, Ajob Ajulian Zahra, Khusnil Mujib, Arif Munandar, Erizco Satya Wicaksono
3	TRF-04	Energy Efficiency Beamformers for K-User MIMO Interference Channels with Interference Alignment	Ha Hoang Kha, Tuan Do-Hong
4	TRF-05	Cyclic Prefix-based Noise Estimation with DVB-T Input for Spectrum Sensing in Cognitive Radio	Dzata Farahiyah, Trung Thanh Nguyen, Thomas Kaiser
5	TRF-06	Path Loss Model Estimation Based on Measurements of Off-Body and On-Body Communication Using Textile Antenna at 2.45 GHz	Basari, Novi Yohanna , Ria Aprilliyani, Rian Gilang Prabowo
6	TRF-07	Signal Analysis of GMSK Modulation-based CubeSat Automatic Identification System Receiver	Achmad Munir, Nazmi Febrian, Antrisha Daneraici Setiawan, Chairunnisa
7	TRF-08	Coupling Analysis of Isotropic and Anisotropic Dielectric Materials in Rectangular Waveguide	Muhammad Reza Hidayat, Achmad Munir
8	TRF-09	Effect of Element Number of SRR - based BPF to Its Characteristics	Mohammad Syahrul, Achmad Munir
9	TRF-10	Methods of MIMO Decoders for Very High Throughput WLAN IEEE802.11ac	Wahyul Amien Syafei, Zuhrotul Maulida, Imam Santoso
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