

# **2019 International Conference of Artificial Intelligence and Information Technology (ICAIIT 2019)**

**Yogyakarta, Indonesia  
13 – 15 March 2019**



**IEEE Catalog Number: CFP19JVE-POD  
ISBN: 978-1-5386-8449-8**

**Copyright © 2019 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:	CFP19JVE-POD
ISBN (Print-On-Demand):	978-1-5386-8449-8
ISBN (Online):	978-1-5386-8448-1

**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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com



## Table of Contents

Message from Conference Chair	i
Welcome Speech by Dr. Suryadiputra Liawatimena as The Indonesia Section Computer Society Chapter Chair	ii
Welcome Speech by Dr. A. Teguh Siswanto as Dean of Industrial Technology Faculty, Universitas Atma Jaya Yogyakarta	iii
Welcome Speech by Dr. Gregorius Sri Nurhartanto, SH. LL.M. as Rector of Universitas Atma Jaya Yogyakarta	iv
Welcome Speech by Ir. Sablin Yusuf, M.Sc., M.Comp.Sc. as Rector of Kalbis Institute, Indonesia	vi
Special Region of Yogyakarta	vii
Universitas Atma Jaya Yogyakarta	ix
KALBIS Institute	xi
Keynote Speaker 1: Professor Andrea Corradini (Copenhagen School of Design and Technology, Denmark)	xii
Keynote Speaker 2: Associate Professor Władysław Homenda (Warsaw University of Technology, Poland)	xiii
Keynote Speaker 3: HAIYONG WU, Ph. D (Nanjing Xiaozhuang University)	xiv
Keynote Speaker 4: Dr. Suryadiputra Liawatimena, S.Kom., PgDip.App.Sci (Universitas Bina Nusantara, Indonesia)	xvii
ICAIT 2019 Organizing Committees	xxi
Table of Contents	xxiii
Conference Schedule	xxiv
Conference List of Papers	xxvii
Conference List of Papers per room	xxxii



## International Conference of Artificial Intelligence and Information Technology 2019 List of Papers

Paper Code	Paper Title (Authors)	Room (Session) Time	Page
1570484576	A Comparative Study on Variational Autoencoders and Generative Adversarial Networks (Mirza Sami, Iftekharul Mobin)	Titanium 1 (4), 14.00-14.15	1
1570497821	Face Detection using Haar Cascades to Filter Selfie Face Image on Instagram (Adri Priadana, Muhammad Habibi)	Titanium 2 (2), 16.00-16.15	6
1570497875	MREAK : Morphological Retina Keypoint Descriptor (Himanshu Vaghela, Manan Oza, Sudhir Bagul)	Ballroom 1 (4), 12.45-13.00	10
1570497900	Semi-Supervised Image-to-Image Translation (Manan Oza, Himanshu Vaghela, Sudhir Bagul)	Titanium 2 (2), 15.45-16.00	16
1570507038	Social Media Prototyping for Web-based Property Business (Harya Bima Dirgantara, Paramaresthi Windriyani, Rendy Adiwikarta)	Titanium 2 (1), 13.45-14.00	21
1570508178	Simple Implementation of Fuzzy Controller for Low Cost Microcontroller (Wakhyu Dwiono, Arif Johar Taufiq, W Winarso)	Titanium 2 (3), 11.00-11.15	26
1570508359	Design of Manufacture Professional Training and Assessment Information System in The Implementation of PBET (Production Based Education and Training) Learning Activity Model (Yustina Tritularsiah)	Titanium 1 (1), 13.00-13.15	31
1570509093	Extraction of Skull and Face Surfaces from CT Images (Masy Ari Ulinuha, Eko Mulyanto Yuniarno, I Ketut Eddy Purnama, Mochamad Hariadi)	Titanium 3 (2), 16.30-16.45	37
1570510791	Real-time Moving Object Video Tracking using Support Vector Machines for Visual Servo Application (Modestus Oliver Asali, Saripudin, Bambang Trilaksono, Toto Indriyanto)	Titanium 2 (4), 13.00-13.15	41
1570510797	Visual Servoing using Mixed Sensitivity $H^\infty$ Control for Yaw-Pitch Camera Platform (Saripudin, Modestus Oliver Asali, Bambang Riyanto Trilaksono, Toto Indriyanto)	Titanium 2 (4), 12.45-13.00	48
1570511011	Automatic Lecture Video Content Summarization with Attention-based Recurrent Neural Network (Muhammad Bagus Andra, Tsuyoshi Usagawa)	Ballroom 1 (3), 11.00-11.15	54
1570511144	Design and Development Meeting Schedule Management Application using the RAD Method (Egia Rosi Subhiyakto, Yani Parti Astuti)	Titanium 1 (4), 14.15-14.30	60
1570512201	The Influence of Sampling Frequency on Guitar Chord Recognition using DST Based Segment Averaging (Linggo Sumarno)	Ballroom 1 (4), 13.00-13.15	65
1570512443	The Priority of Tourism Destinations Development using 6AsTD Framework and TOPSIS (Yunifa Miftachul Arif, Supeno Mardi Susiki Nugroho, Mochamad Hariadi)	Titanium 2 (1), 13.00-13.15	70
1570512457	Systematic Literature Review of Profiling Analysis Based on Social Media (Mihuandayani, Ema Utami, Anggit Dwi Hartanto, Sumarni Adi, Suwanto Raharjo)	Titanium 2 (1), 14.00-14.15	77
1570512562	NDNization of IP Network Based On Communication Flow Model (Fandhy Bayu Rukmana, Nina Hendrarini, Riri Fitri Sari)	Ballroom 2 (3), 10.45-11.00	83
1570512569	Improve Smart Waste Management to Preserve Tourist Attractions Yogyakarta in IoT Environment (RANIA RIZKI ARINTA, Dominikus Boli Watomakin, Suyoto)	Titanium 2 (1), 13.15-13.30	88
1570512578	Smart Kost: Ubiquitous Boarding House Controlling and Monitoring System in Industry 4.0 (Julius Galih Prima Negara, Alfredo Gormantara, Suyoto)	Titanium 3 (1), 13.15-13.30	94
1570512583	IoT Based: Improving Control System For High-Quality Beef in Supermarkets	Titanium 3 (1), 13.30-13.45	99

	(BALTRA AGUSTI PRAMAJURI, Erni Widarti, Suyoto)		
1570512614	IOT: Improved Home Energy Control System Based on Consumer Behavior (Melky Radja, Gilbert Gutabaga Hungilo, Gahizi Emmanuel, Suyoto)	Titanium 3 (1), 13.45-14.00	104
1570512658	A classification approach of emotional reactions while driving a vehicle (Andrea Corradini, Alexander Efa)	Titanium 2 (2), 16.15-16.30	109
1570512694	Determining the Neural Network Topology from the Viewpoint of Kuhn's Philosophy and Popper's Philosophy (MUHAMMAD IBNU CHOLDUN RACHMATULLAH, Kridanto Surendro, Judhi Santoso, Dimitri Mahayana)	Ballroom 1 (4), 12.30-12.45	115
1570512696	IoT-Based Smart And Healthy Wardrobe System (Fedelis Brian Putra Prakasa, Jaouja Maiga, Suyoto)	Titanium 3 (1), 13.00-13.15	119
1570512722	IoT Based: Hydroponic Using Drip Non-Circulation System for Paprika (Dhana Sudana, Dadang Eman, Suyoto)	Titanium 3 (1), 14.00-14.15	124
1570512735	Smart hydroponic farming with IoT-based climate and nutrient manipulation system (Rangga Perwiratama, Yosef Kelly Setiadi, Suyoto)	Titanium 3 (1), 14.15-14.30	129
1570512995	Audio Steganography Using Lifting Wavelet Transform and Dynamic Key (Mohamad Anwar, Moechammad Sarosa, Erfan Rohadi)	Titanium 2 (4), 12.30-12.45	133
1570513290	Automated Test Suite for Regression Testing Based on Serenity Framework: A Case Study (Fransiskus Anindita Kristiawan Pramana Gentur Sutapa, Sri Suning Kusumawardani, Adhistya Erna Permanasari)	Titanium 2 (1), 14.30-14.45	138
1570513593	Clutter Mitigation Technique on OFDM MIMO Radar (Risdilah Mimma Untsa, Gamantyo Hendratoro, Puji Handayani)	Ballroom 1 (2), 16.45-17.00	145
1570513597	Switching Formation and Topology in Cooperative Multi-Agent Source Seeking Using Gradient Estimation (MOCHAMMAD SAHAL, Trihastuti Agustinah, Achmad Jazidie)	Ballroom 1 (4), 14.00-14.15	151
1570513608	Forming Formation of Particle Swarm using Artificial Neural Network Self Organizing Map (ANN-SOM) with 2-leveled Strategy (Bayu Fandidarma, Achmad Jazidie, Rusdhianto Efendi Abdul Kadir)	Ballroom 1 (4), 13.15-13.30	157
1570513614	Complexity Reduction for Multiview HEVC Codec Using FPGA (M. Suhairi, Wirawan, Endroyono, Astria Nur Irfansyah)	Titanium 2 (2), 15.30-15.45	163
1570513710	Trajectory Tracking Automated Guided Vehicle Using Fuzzy Controller (Mamat Septyan, Trihastuti Agustinah)	Ballroom 2 (3), 11.15-11.30	169
1570513712	Modified Ant Colony Algorithm For Swarm Multi Agent Exploration on Target Searching in Unknown Environment (Yoan Purbolingga, Achmad Jazidie, Rusdhianto Efendi Abdul Kadir)	Ballroom 1 (4), 13.30-13.45	175
1570513732	EEG-based Mental Fatigue Detection Using Cognitive Tests and RVM Classification (Andi Setiawan, Adhi Dharma Wibawa, Evi Septiana Pane, Mauridhi Hery Purnomo)	Titanium 3 (2), 16.15-16.30	180
1570513741	REINFORCEMENT POINT AND FUZZY INPUT DESIGN OF FUZZY Q-LEARNING FOR MOBILE ROBOT NAVIGATION SYSTEM (Arga Dwi Pambudi, Trihastuti Agustinah, Rusdhianto Efendi Abdul Kadir)	Ballroom 2 (3), 11.00-11.15	186
1570513896	Parameter Identifiability of Phased-MIMO Radar (Muttaqin Hardiwansyah, Syahfrizal Tahcfulloh, Gamantyo Hendratoro)	Ballroom 1 (4), 13.45-14.00	192
1570514049	Review of Benefit Using Gamification Element for Countryside Tourism (Fedelis Brian Putra Prakasa, Andi Wahyu Rahardjo Emanuel)	Titanium 2 (1), 13.30-13.45	196
1570514074	The Classification of the Movie Genre based on Synopsis of the Indonesian Film (Antonius Christiyanto Saputra, Pius Guiseppa Sarto Aji Tetuko, Giovanni Christian Nugroho, Anjelina Br Sitepu, Stanley, Yohanes Sigit Purnomo WP)	Titanium 2 (4), 14.30-14.45	201
1570515288	A Study of Text Classification for Indonesian News Article (Grelly Lucia Yovellia Londo, Dwiky Hutomo Kartawijaya, Muhammad Rafi Aryasuta P, Hesti Tri Ivariyani, Dipo Ariyandi, Yohanes Sigit Purnomo WP)	Ballroom 2 (4), 12.30-12.45	205
1570515432	Big Data Analytics: Estimation of Destination for Users of Bus Rapid Transit (BRT) Public Transportation in Jakarta (MUHAMMAD SYARIF, Widyawan, Teguh Bharata Adji)	Titanium 1 (2), 15.30-15.45	209
1570516332	Gamification of Mobile-based Japanese Language Shadowing (Hans Christian Kurniawan, Benhard Sitohang, Satrio Adi Rukmono)	Titanium 1 (3), 11.00-11.15	215



1570516556	A Preliminary Performance Evaluation of Population-Based Algorithms in VANET (Ronald Adrian, Selo Sulisty, I Wayan Mustika, Sahirul Alam)	Titanium 1 (4), 12.45-13.00	220
1570516699	Classification of Premature Ventricular Contraction based on ECG Signal using Multiorder Rényi Entropy (Achmad Rizal, Inung Wijayanto)	Titanium 3 (2), 16.00-16.15	225
1570518440	Predictive Analytics for Predicting Customer Behavior (Asniar, Kridanto Surendro)	Titanium 1 (1), 14.00-14.15	230
1570518672	Internet of Things: Roboboat for Water Area Monitoring using 4G network and Google Firebase (Dadan Nur Ramadan, Sugondo Hadiyoso, Ahmad Rizaldi Sakti)	Titanium 3 (1), 14.30-14.45	234
1570518796	Decision Support Systems to Determining Programme for Students Using DBSCAN And Naive Bayes (Erna Daniati)	Titanium 1 (1), 14.30-14.45	238
1570519077	Fluid Simulation Based on Material Point Method with Neural Network (Pandu Akbar Dwikatama, Dody Dharma, Achmad Imam Kistijantoro)	Titanium 1 (1), 14.15-14.30	244
1570520869	Designing IT-based Skills and Competency Learning System (Sigit Triyono, Yetti Supriyati, Billy Tunas)	Titanium 1 (4), 14.30-14.45	250
1570521650	Determining the Threshold Value for Identification of the Goblet Cells in Chicken Small Intestine (Dedi Sepriana, Kusworo Adi, Catur Edi Widodo)	Ballroom 1 (2), 15.30-15.45	255
1570521672	Information Retrieval System for Searching JSON Files with Vector Space Model Method (Eko Wahyudi, Sfenrianto, M Jundi Hakim, Okky Robiana Sulaeman, Rochmat Setiyawan, Reko Subandi)	Ballroom 2 (4), 14.00-14.15	260
1570522671	Traffic Sign Image Recognition Using Gabor Wavelet and Principle Component Analysis (Immawan Wicaksono, Hendra Kusuma, Tri Arief Sardjono)	Ballroom 1 (3), 11.15-11.30	266
1570523474	COMPARISON OF DISTANCE METHODS IN K-MEANS ALGORITHM FOR DETERMINING VILLAGE STATUS IN BEKASI DISTRICT (Yoga Religia, Aswan Supriyadi Sunge)	Titanium 2 (4), 14.00-14.15	270
1570523658	Rough-Regression for Categorical Data Prediction based on Case Study (Riswan Efendi, Susnaningsih Mu'at, Voni Apriana Dewi, Nelsi Arisandy, Noor Azah Samsudin, Dadang Syarif Sihabudin Sahid)	Titanium 1 (4), 13.00-13.15	277
1570523931	A Comparison of the Use of Several Different Resources on Lexicon Based Indonesian Sentimentc Analysis on App Review Dataset (Bayu Trisna Pratama, Ema Utami, Andi Sunyoto)	Ballroom 2 (4), 12.45-13.00	282
1570523975	Image Based Leaf Area Measurement Method Using Artificial Neural Network (Joko Siswanto, Ida Bagus Made Artadana)	Titanium 2 (2), 16.30-16.45	288
1570524081	Contrast-enhanced Based on Abdominal Kernels for CT Image Noise Reduction (Riky Tri Yunardi, Qurratul Istiqomah, Risalatul Latifah)	Ballroom 1 (2), 16.30-16.45	293
1570524566	Improved Particle Swarm Optimization By Fast Simulated Annealing Algorithm (Samar Salem Ahmed Omar Bashath, Amelia Ritahani Ismail)	Titanium 1 (4), 13.30-13.45	297
1570524898	FHC-Optimization Model for Deciding the Objective Hajj Pilgrims to Restricted Quota (Case Study: Hajj Pilgrimage Procedure in Indonesia) (Ditdit Nugeraha Utama, Muhammad Faturrahman, Methamazid Rusdi, Ibnu Yahya Saputra, Fuji Suci Isnaeni, Bayu Waspodo)	Titanium 1 (4), 13.15-13.30	302
1570525893	Detection of Anomalies in Citrus Leaves Using Digital Image Processing and T <sup>2</sup> Hotelling Multivariate Control Chart (Marcelinus Alfasisurya Setya Adhiwibawa, Waego Nugroho, Solimun)	Titanium 2 (2), 16.45-17.00	310
1570526013	Adapted Flower Pollination Algorithm for Lecturer-Class Assignment (MA. SHIELA C. SAPUL, Rachsuda Setthawong, Pisal Setthawong)	Titanium 1 (1), 13.45-14.00	315
1570526180	Fuzzy Coordinator based AI for Dynamic Difficulty Adjustment in Starcraft 2 (Muhammad Daryl Bey Sandy Supriyadi, Supeno Mardi Susiki Nugroho, Mochamad Hariadi)	Titanium 2 (4), 14.15-14.30	322
1570526192	Digital Overcurrent Relay Implementation With Non-Standard Inverse Curve Modelling Using Adaptive Neuro Fuzzy Inference System	Titanium 2 (4), 13.30-13.45	327

	(Dimas Okky Anggriawan, Eka Prasetyono, Fikri Fahrismi, Anang Budikarso, Anang Tjahjono, Hardefa Rizky Putu Rogonondo)		
1570526214	Harmonics Reduction for Four-Leg Distribution Network-Connected Single Phase Transformerless PV Inverter System Using Diagonal Recurrent Neural Network (Dedy Kurnia Setiawan, Mochamad Ashari, Heri Suryoatmojo)	Titanium 2 (1), 14.15-14.30	331
1570526218	Melanoma Classification Using Texture and Wavelet Analysis (Akhiyar Waladi, Nanda Maulina Firdaus, Aniati M. Arymurthy)	Ballroom 2 (4), 14.15-14.30	336
1570526222	Deep Learning-Based Patient Visits Forecasting Using Long Short Term Memory (Hayuning Titi Karsanti, Igi Ardiyanto, Lukito Edi Nugroho)	Titanium 1 (2), 15.45-16.00	344
1570526281	Offensive Language Detection using Artificial Neural Network (Meredita Susanty, Ahmad Fauzan Rahman, Muhammad Dzaky Normansyah, Ade Irawan, Sahrul)	Ballroom 2 (4), 13.30-13.45	350
1570526304	Customizable Dynamic Hand Gesture recognition System for Motor Impaired people using Siamese neural network (Pullakandam Muralidhar, Prashanth Sateesh, Amartya Saha)	Titanium 1 (2), 16.00-16.15	354
1570526319	Use of ARIMA Method To Predict The Number of Train Passenger In Malang City (Triyanna Widiyaningtyas, Muladi, Adiba Qonita)	Titanium 1 (2), 16.15-16.30	359
1570526385	Sentiment Analysis In Twitter Using Lexicon Based and Polarity Multiplication (Kusrini, Mochamad Mashuri)	Ballroom 2 (4), 13.00-13.15	365
1570526401	Heart Rate Estimation from Wrist-Type Photoplethysmographic Signals Corrupted by Intense Motion Artifacts using NLMS Adaptive Filter and Spectral Peak Tracking (Put Gani Ayub Tamudia, Astri Handayani, Agung Wahyu Setiawan)	Titanium 3 (2), 16.45-17.00	369
1570526412	The Effect of Game Experience from Counter-Strike: Global Offensive (Sasmoko Sasmoko, Jason Harsono, Yogi Udjaja, Yasinta Indrianti, Jurike Moniaga)	Titanium 1 (3), 10.30-10.45	374
1570526423	Dynamic Background Video Forgery Detection using Gaussian Mixture Model (Nugroho Satriyanto, Rinaldi Munir, Harlili)	Titanium 2 (4), 13.45-14.00	379
1570526452	Study on a Train- and Bus-based Delay-Tolerant Networks: Scheduled Mobility and Impact on Routing (Agus Urip Ari Wibowo, Selo Sulisty, I Wayan Mustika)	Titanium 1 (2), 16.45-17.00	384
1570526453	A Study on Part Affinity Fields Implementation for Human Pose Estimation with Deep Neural Network (Jessika, Isca Amanda, Hasna Marhamah Auliya, Astri Handayani)	Ballroom 1 (2), 16.15-16.30	391
1570526455	Automated Segmentation of Breast Tissue and Pectoral Muscle in Digital Mammography (Aulia Rahmatika, Astri Handayani, Agung Wahyu Setiawan)	Titanium 3 (2), 15.30-15.45	397
1570526456	Proportional-Derivative Control for Quadrotor Stabilization under Inertia Perturbation (Nurman Setiawan, Samiadji Herdjunanto, Adha Imam Cahyadi)	Ballroom 2 (4), 14.30-14.45	402
1570526466	Determining Banana Types and Ripeness from Image using Machine Learning Methods (Irzal Ahmad Sabilla, Cahyaningtyas Sekar Wahyuni, Chastine Fatichah, Darlis Herumurti)	Ballroom 1 (2), 16.00-16.15	407
1570526480	Predicting Candidates For Fit And Proper Test Using K-Nearest Neighbor (TIO SAMPURNO, Beni Hedyantama, Martini Ayu Widiyati)	Titanium 1 (1), 13.30-13.45	413
1570526499	Face Recognition of Low-Resolution Video Using Gabor Filter & Adaptive Histogram Equalization (Hendy William Sino, Indrabayu, Intan Sari Areni)	Titanium 2 (4), 13.15-13.30	417
1570526500	Improved Ranking Based Collaborative Filtering Using SVD and Borda Algorithm (Muhammad Iqbal Ardiansyah Teguh Bharata Adji, Noor Akhmad Setiawan)	Ballroom 1 (3), 10.45-11.00	422
1570526502	Word Embedding Comparison for Indonesian Language Sentiment Analysis (Helmi Imaduddin, Widyawan, Silmi Fauziati)	Ballroom 2 (4), 13.15-13.30	426
1570526507	HERO: Maximizing Student Potential to Mobilize Community Empowerment	Titanium 1 (1), 13.15-	431

XXX

	Activities Around Campus (Rohmat Tulloh, Ridha Muldina Negara, Yayan Eka Yudha Prasetya, Sendy Saputra)	13.30	
1570526512	Backpropagation Implementation To Classify Dysgraphia In Children (Pratama Wisnu Samodro, Sari Widya Sihwi, Winarno)	Titanium 1 (4), 13.45-14.00	437
1570526525	The Repercussions of Game Multiplayer Online Battle Arena (Sasmoko, Senly Halim, Yasinta Indrianti, Yogi Udjaja, Jurike Moniaga, Brilly Andro Makalew)	Titanium 1 (3), 10.45-11.00	443
1570526529	A Review of Sentiment Analysis for Non-English Language (Fahim Djatmiko, Ridi Ferdiana, Muhammad Faris)	Ballroom 2 (4), 13.45-14.00	448
1570526533	The Influence of User Experience Playerunknown's Battlegrounds <i>Game</i> Toward Adaptive Learning (Jurike Moniaga, Bonavensius Yosua Aprilianus Tansil, Sasmoko, Yasinta Indrianti, Noerlina)	Titanium 1 (3), 11.15-11.30	452
1570526538	Implementation of Depth-HOG based Human Upper Body Detection On A Mini PC Using A Low Cost Stereo Camera (Bima Sena Bayu Dewantara, Fernando Ardilla, Ardiansyah At Thoriqy)	Ballroom 1 (2), 15.45-16.00	458
1570526541	Thermal Optimization on Incubator using Fuzzy Inference System based IoT (Renny Rakhmawati, Irianto, Farid Dwi Murdianto, Atabik Luthfi, Aviv Yuniar Rahman)	Ballroom 2 (3), 10.30-10.45	464
1570526544	A Neural Network based Approach for Predicting Indonesian Teacher Engagement Index (ITEI) (Sucianna Ghadati Rabiha, Sasmoko, Emny Harna Yossy, Yasinta Indrianti)	Titanium 1 (2), 16.30-16.45	469
1570526547	Incorporating Information Technology Concept to Sustainable Enterprise (Erda Guslinar Perdana, Husni S. Sastramihardja, Iping Supriana Suwardi)	Ballroom 1 (3), 10.30-10.45	475
1570526549	Auto-Encoding Progressive Generative Adversarial Networks for 3D Multi Object Scenes (Vedant Singh, Manan Oza, Himanshu Vaghela, Pratik Kanani)	Ballroom 2 (4), 14.45-15.00	481
1570526552	Pneumonia Detection with Deep Convolutional Architecture (Abdullah Faqih Al Mubarak, Ahmad Habbie Thias, Dominique Jeffrey Alamaro Maximilianus)	Titanium 3 (2), 15.45-16.00	486
1570526555	Audio Signal Transmission over Vehicular Channel with Moving Scatterer (Jans Hendry, Wahyu Pamungkas, Anggun Fitriani Isnawati, Eka Setia Nugraha)	Titanium 2 (3), 10.30-10.45	490
1570526557	Machine Learning for Data Processing in Vessel Telemetry System: Initial Study (Herry Susanto, Gunawan Wibisono)	Titanium 2 (3), 11.15-11.30	496
1570526563	Indonesian Sign Language (BISINDO) Translation System with ORB for Bilingual Language (Rahmatullah Arrizal Pranatadesta, Iping Supriana Suwardi)	Titanium 1 (4), 12.30-12.45	502
1570526573	An Efficient Resource Allocation Mechanism for Time-Sensitive Data in Dew Computing (M Saddam Hossain Khan, Puloma Roy, Fatema Khanam, Farzana Hannan Hera, Amit Kumar Das)	Ballroom 1 (4), 14.30-14.45	506
1570526714	Comparison Road Safety Education with and without IoT to Develop Perceptual Motor Skills in Early Childhood Children Aged 4-5 (Mario Nugroho Willyarto, Anggraeni S. Reksodipuro, Ulani Yunus, Suryadiputra Liawatimena)	Ballroom 1 (4), 14.15-14.30	511
1570526750	A Simple RBAC And SSO Architecture for ISONER Framework (I Made Sukarsa, I Ketut Gede Darma Putra, Nyoman Putra Sastra, Lie Jasa)	Titanium 2 (3), 10.45-11.00	517