

TEDDY SURYA GUNAWAN



- KULLIYAH OF ENGINEERING
- IIUM Gombak Campus
- Email address:
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المؤهل العلمي

- Ph.D in Electrical Engineering
- Master in Engineering
- Bachelor in Electrical Engineering

مسؤوليات التدريس

ADVANCED OPERATING SYSTEM	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
ADVANCED OPERATING SYSTEMS	2015/2016 2016/2017
CONTROL SYSTEMS	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2017/2018
ELECTRIC CIRCUITS	2008/2009 2010/2011
ELECTRICAL AND COMPUTER ENGINEERING LAB III	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2016/2017 2017/2018
ENGINEERING LAB I	2008/2009
FINAL YEAR PROJECT I	2018/2019 2019/2020 2020/2021
FINAL YEAR PROJECT II	2018/2019
INTEGRATED DESIGN PROJECT	2013/2014 2014/2015
OBJECT ORIENTED PROGRAMMING FOR ENGINEERS	2009/2010
OPERATING SYSTEMS	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
Operating System	2018/2019 2019/2020 2020/2021
PARALLEL COMPUTING	2019/2020 2020/2021
PROJECT I	2010/2011 2011/2012 2012/2013
PROJECT II	2010/2011 2011/2012

SPEECH AND AUDIO PROCESSING	2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
SPEECH AND IMAGE PROCESSING	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
Speech & Image Processing	2018/2019
Speech and Image Processing	2019/2020 2020/2021

المشاريع البحثية

In Progress

- 2019 - Present** - Prototype Development of an Integrated Parental Perinatal Depression and Anxiety Monitoring Systems
- 2019 - Present** - Empirical Model for Volatile Organic Compound Selectivity Prediction of Polymer-based Acoustic Wave Sensor Array through Machine Learning Algorithm
- 2019 - Present** - The Analytical Study of Environment, Social and Governance (ESG) Data to Improve the Effectiveness of the National Sustainable Development Goals (SDG) Reporting Using Artificial Intelligence
- 2019 - Present** - Artificial Intelligence aided algorithm to improve the detection of severity of curve in scoliotic spine
- 2018 - Present** - A Novel Pose Estimation Algorithm for Mobile AR via Inertial Sensing and Conditional Density Propagation
- 2018 - Present** - Speech Emotion Recognition and Depression Prediction based on Speech Analysis using Deep Neural Networks
- 2018 - Present** - Development of a novel particle-filter-based pose estimation algorithm incorporating inertial sensors fusion with vision data for augmented reality application on smartphones
- 2017 - Present** - Analyses of Infodemiology among Parents with Chronic Disease Children in Malaysia for improved Public Health Informatics
- 2016 - Present** - Reduced-reference Metric Video Quality Metric using Spatial Information in Salient Regions
- 2016 - Present** - Development of Novel Algorithm using Features of Respiratory Sounds Abnormalities for Detection of Lung Cancer
- 2015 - Present** - Improving Prediction of Sukuk Rating through Ensemble Classifier Techniques of Data Mining
- 2015 - Present** - Proposing with Analysis a Multi-Level Inverter Using Optimized Pulse-Width-Modulation Approach with Reduced Harmonics and Switching Losses

2015 - Present The Investigation on Arabic Word Pose Estimation Algorithm as Marker for Augmented Reality Application

2015 - Present Novel model of leakage current mechanisms in radiation hard Silicon Carbide Schottky Diodes

Completed

2017 - 2020 Analyses of Infodemiology among Parents with Chronic Disease Children in Malaysia for improved Public Health Informatics

2016 - 2018 Investigation on the Behaviour of Weapon Positioning System on Volatile Warship

2016 - 2017 An Effective Hybrid Human Gait Recognition System Combining Independent Component Analysis and Total Silhouette Computation

2016 - 2019 Reduced-reference Metric Video Quality Metric using Spatial Information in Salient Regions

2016 - 2019 Real-Time Data Retrieval and Sorting System for the IoT

2016 - 2019 Investigation of Novel Algorithm using Features of Respiratory Sounds Abnormalities for Detection of Lung Cancer

2015 - 2019 The Investigation on Arabic Word Pose Estimation Algorithm as Marker for Augmented Reality Application

2015 - 2018 An Efficient Algorithm on Lossless Audio Compression using Optimized Linear Predictor and Entropy Coding for Multichannel Quranic Audio Recitation

2015 - 2019 Proposing with Analysis a Multi-Level Inverter Using Optimized Pulse-Width-Modulation Approach with Reduced Harmonics and Switching Losses

2015 - 2019 Improving Prediction of Sukuk Rating through Ensemble Classifier Techniques of Data Mining

2015 - 2018 Novel model of leakage current mechanisms in radiation hard Silicon Carbide Schottky Diodes

2014 - 2017 Novel Method for Building Ancient Recombination Landscape using Archaic Human Genomes

2014 - 2017 Study of Photoplethysmogram Based Biometric Identification Incorporating Different Age Groups and Physiological Conditions

2014 - 2016 Cardioid Based Graph ECG Biometric Recognition Incorporating Physiological Variability

2014 - 2019 An Efficient Algorithm to Discover Large and Frequent Itemset in High Dimensional Data

2014 - 2016 Design and Development of Portable Classroom Attendance System Based on Fingerprint Biometric

2012 - 2015 Robust adaptive control of nonlinear system application to flight control system

2011 - 2014 The Investigation of Location-based Query Implementation on Aid Distribution System During Disaster Recovery

- 2011 - 2011** Development of Final Year Project Portal for Engineering Degree Program
- 2011 - 2013** Design and Develop A Prototype of Environment Friendly Hybrid
- 2011 - 2013** Bimodal Person Identification System Based on Speech and Signature Recognitions
- 2011 - 2015** Development Of SQL And PLSQL Programming Workbook For Database Courses Using Islamic Scenario
- 2011 - 2015** An Exploratory Study of Attitudes to ICT-related Environmental Issues and Initiatives among Students and Staff in Malaysian and Australian Higher Education Institutions (HEIs)
- 2010 - 2012** Design and implementation of novel parallel speech processing algorithms on a multicore system
- 2010 - 2013** Novel Algorithms on Speech and Audio Coding Based on Compressive Sensing Principle
- 2010 - 2012** Development of Embedded system for remote operation of CNC milling
- 2009 - 2011** Development of fast mode Decision Algorithm for Efficient scalable video coding
- 2008 - 2010** Adaptive Video Coding Over Wireless Channel

المنشورات

Article

- 2020** [Design of travel angle control of quanser bench-top helicopter using mamdani-based fuzzy logic controller.](#) Indonesian Journal of Electrical Engineering and Computer Science , 17 (2) pp.815-824
- 2020** [Safety and security solution for school bus through RFID and GSM technologies.](#) Safety and security solution for school bus through RFID and GSM technologies , 17 (2) pp.804-814
- 2020** [An efficient algorithm for cardiac arrhythmia classification using ensemble of depthwise Separable convolutional neural networks.](#) Applied Sciences , 10 (2) pp.483-499
- 2020** [A real-time mobile notification system for inventory stock out detection using SIFT and RANSAC.](#) International Journal of Interactive Mobile Technologies (ijIM) , 14 (5) pp.32-46
- 2020** [Development of control system for quadrotor unmanned aerial vehicle using LoRa wireless and GPS tracking.](#) Telkomnika (Telecommunication Computing Electronics and Control) , 18 (5) pp.2674-2681
- 2020** [On the review of image and video-based depression detection using machine learning.](#) Indonesian Journal of Electrical Engineering and Computer Science , 19 (3) pp.1677-1684

- 2020** [Factors affecting continued use of online health information seeking behaviour among parents in developing countries.](#) International Journal of Evaluation and Research in Education (IJERE)
- 2020** [Fast and accurate algorithm for ECG authentication using residual depthwise separable convolutional neural networks.](#) Applied Sciences , 10 (9) pp.1-15
- 2020** [A text mining analytics on online forum medical queries among parents with diabetic children.](#) Journal of Pharmacy and Bioallied Sciences , 2 (Supp2) pp.933-933
- 2020** [A systematic review of breast cancer detection using thermography and neural networks.](#) IEEE Access , 8 pp.208922-208937
- 2020** [Development of video-based emotion recognition using deep learning with Google colab.](#) Telkomnika , 18 (5) pp.2463-2471
- 2019** [Performance evaluation of portable air quality measurement system using raspberry Pi for remote monitoring.](#) Indonesian Journal of Electrical Engineering and Computer Science , 17 (2) pp.564-574
- 2019** [The disruptometer: an artificial intelligence algorithm for market insights.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.727-734
- 2019** [Cyberbullying in e-learning platform: an exploratory study through text mining analytics.](#) Journal of Information Systems and Digital Technologies , 1 (2) pp.40-47
- 2019** [A critical insight into multi-languages speech emotion databases.](#) Bulletin of Electrical Engineering and Informatics , 8 (4) pp.1312-1323
- 2019** [On the use of voice activity detection in speech emotion recognition.](#) Bulletin of Electrical Engineering and Informatics , 8 (4) pp.1324-1332
- 2019** [Design of power factor meter using internet of things for power factor improvement, remote monitoring and data logging.](#) Indonesian Journal of Electrical Engineering and Computer Science , 17 (2) pp.700-709
- 2019** [A novel optimization harmonic elimination technique for cascaded multilevel inverter.](#) Bulletin of Electrical Engineering and Informatics , 8 (2) pp.405-413
- 2019** [Investigation of lower limb's muscles activity during performance of salat between two age groups.](#) Indonesian Journal of Electrical and Computer science , 14 (2) pp.608-617
- 2019** [A Comparative study of total harmonics distortion between Spwm and She-Pwm modulation techniques for inverters..](#) Journal of Electrical Power and Electronics System , 1 (1) pp.1-5
- 2018** [Design and implementation of portable outdoor air quality measurement system using Arduino.](#) International Journal of Electrical and Computer Engineering (IJECE) , 8 (1) pp.280-290
- 2018** [Development of Quran reciter identification system using MFCC and GMM classifier.](#) International Journal of Electrical and Computer Engineering (IJECE) , 8 (1) pp.372-378

- 2018** [Design of microstrip hairpin bandpass filter for 2.9 GHz – 3.1 GHz s-band radar with defected ground structure.](#) Malaysian Journal of Fundamental and Applied Sciences (MJFAS) , 14 (4) pp.448-455
- 2018** [A review on emotion recognition algorithms using speech analysis.](#) Indonesian Journal of Electrical Engineering and Informatics (IJEEI) , 6 (1) pp.12-20
- 2018** [Implementation of fuzzy logic control system on rotary car parking system prototype.](#) Indonesian Journal of Electrical Engineering and Computer Science , 12 (2) pp.706-715
- 2018** [On the use of edge features and exponential decaying number of nodes in the hidden layers for handwritten signature recognition.](#) Indonesian Journal of Electrical Engineering and Computer Science , 12 (2) pp.722-728
- 2018** [Penetration testing using Kali Linux: SQL injection, XSS, Wordpress, and WPA2 attacks.](#) Indonesian Journal of Electrical Engineering and Computer Science , 12 (2) pp.729-737
- 2018** [Concealment of files blocked by Gmail with EOF-based image steganography.](#) Indonesian Journal of Electrical Engineering and Computer Science , 12 (2) pp.716-721
- 2018** [Development of smart chicken poultry farm.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (2) pp.498-505
- 2018** [Speech emotion recognition using deep feedforward neural network.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (2) pp.554-561
- 2018** [Development of English handwritten recognition using deep neural network.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (2) pp.562-568
- 2018** [Development of quranic reciter identification system using MFCC and GMM classifier.](#) International Journal of Electrical and Computer Engineering , 8 (1) pp.372-378
- 2018** [Classification of normal and crackles respiratory sounds into healthy and lung cancer groups.](#) International Journal of Electrical and Computer Engineering (IJECE) , 8 (3) pp.11530-1538
- 2018** [On the review and setup of security audit using Kali Linux.](#) Indonesian Journal of Electrical Engineering and Computer Science , 11 (1) pp.51-59
- 2018** [Sukuk rating prediction using voting ensemble strategy.](#) International Journal of Electrical and Computer Engineering (IJECE) , 8 (1) pp.299-304
- 2018** [Performance evaluation of multichannel audio compression.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.146-153
- 2018** [Comparison of entropy coding mechanism on IEEE1857.2 lossless audio compression standard.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.176-183
- 2018** [On the comparison of line spectral frequencies and mel-frequency cepstral coefficients using feedforward neural network for language identification.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.168-175

- 2018** [Measuring the road traffic intensity using neural network with computer vision.](#) Indonesian Journal of Electrical Engineering and Computer Science , 10 (1) pp.184-190
- 2018** [Design of microstrip hairpin bandpass filter for 2.9 GHz – 3.1 GHz Sband radar with defected ground structure.](#) Malaysian Journal of Fundamental and Applied Science , 14 (4 (October-December)) pp.448-455
- 2018** [Performance evaluation of smart home system using Internet of things.](#) International Journal of Electrical and Computer Engineering (IJECE) , 8 (1) pp.400-411
- 2018** [Decision tree optimization for sukuk rating prediction.](#) Journal of Fundamental and Applied Science , 10 (25) pp.323-332
- 2017** [Design of automatic number plate recognition on android smartphone platform.](#) Indonesian Journal of Electrical Engineering and Computer Science , 5 (1) pp.99-108
- 2017** [A dynamic bandwidth schemes base on adaptive video streaming.](#) Transylvanian Review , XXV (22) pp.5709-5718
- 2017** [Development of language identification using line spectral frequencies and learning vector quantization networks.](#) Journal of Telecommunication, Electronic and Computer Engineering , 9 (3-7) pp.21-27
- 2017** [Development of educational game for primary school mathematics using Microsoft Kinect.](#) Indonesian Journal of Electrical Engineering and Computer Science , 6 (2) pp.457-463
- 2017** [Investigation of lossless audio compression using IEEE 1857.2 advanced audio coding.](#) Indonesian Journal of Electrical Engineering and Computer Science , 6 (2) pp.422-420
- 2017** [Evaluating the effect of viewing angle in different conditions for gait recognition.](#) ARPN Journal of Engineering and Applied Sciences , 12 (16) pp.4729-4735
- 2017** [Prototype design of smart home system using internet of things.](#) Indonesian Journal of Electrical Engineering and Computer Science , 7 (1) pp.107-115
- 2017** [Development of photo forensics algorithm by detecting photoshop manipulation using error level analysis.](#) Indonesian Journal of Electrical Engineering and Computer Science , 7 (1) pp.131-137
- 2017** [Artificial neural network based fast edge detection algorithm for MRI medical images.](#) Indonesian Journal of Electrical Engineering and Computer Science , 7 (1) pp.123-130
- 2017** [Development of efficient iris identification algorithm using wavelet packets for smartphone application.](#) Indonesian Journal of Electrical Engineering and Computer Science , 8 (2) pp.450-456
- 2017** [Survey on language processing algorithm for sign language synthesizer.](#) International Journal on Robotics and Mechatronics , 4 (2) pp.39-49
- 2017** [Development of face recognition on raspberry Pi for security enhancement of smart home system.](#) Indonesian Journal of Electrical Engineering and Informatics (IJEI) , 5 (4) pp.317-325

- 2017** [Digital photography based food intake prediction using artificial neural network.](#) Malaysian Journal of Medicine , 72 (Supplement 1) pp.20-20
- 2017** [Edge detection of MRI images using artificial neural network.](#) The Medical Journal of Malaysia , 72 (Supplement 1) pp.22-22
- 2017** [Performance evaluation of automatic number plate recognition on android smartphone platform.](#) International Journal of Electrical and Computer Engineering , 7 (3) pp.1941-1951
- 2017** [Single channel speech enhancement using Wiener filter and compressive sensing.](#) International Journal of Electrical and Computer Engineering (IJECE) , 7 (3) pp.1941-1951
- 2016** [Development of Quran reciter identification system using MFCC and neural network.](#) TELKOMNIKA Indonesian Journal of Electrical Engineering , 17 (1) pp.168-175
- 2016** [Speech enhancement based on wiener filter and compressive sensing.](#) Indonesian Journal of Electrical Engineering and Computer Science , 2 (2) pp.367-379
- 2016** [Fingerprint biometric systems.](#) Trends in Bioinformatics , 9 (2) pp.52-58
- 2016** [Possibility of using interdigital sensor \(IDS\) in estimating different level of blood glucose.](#) Sindh University Research Journal (Science Series) , 48 (4D) pp.209-212
- 2016** [Portable anti forgery recognition for attendance system using fingerprint based biometric.](#) ARPN Journal of Engineering and Applied Sciences , 11 (1) pp.396-403
- 2016** [Travel angle control of quanser bench-top helicopter based on quantitative feedback theory technique.](#) Indonesian Journal of Electrical Engineering and Computer Science , 1 (2) pp.310-318
- 2016** [QFT controller for nonlinear system application to 3-DOF flight control module.](#) ARPN Journal of Engineering and Applied Sciences , 11 (6) pp.4172-4175
- 2016** [Review of parameter estimation techniques for time-varying autoregressive models of biomedical signals.](#) International Journal of Signal Processing Systems , 4 (3) pp.220-225
- 2015** [Performance comparisons between PID and adaptive PID controllers for travel angle control of a bench-top helicopter.](#) International Journal of Electronics, Electrical and Communication Engineering , 9 (1) pp.35-40
- 2015** [Robust control of bench-top helicopter using quantitative feedback theory.](#) TELKOMNIKA Indonesian Journal of Electrical Engineering , 14 (3) pp.500-507
- 2014** [Green IT attitude and behaviour in higher education institution: a gender perspective.](#) Journal of Applied Sciences , 14 (7) pp.714-718
- 2013** [Towards a sign language synthesizer: a bridge to communication gap of the hearing/speech impaired community.](#) IOP Conference Series: Materials Science and Engineering , 53 pp.012072 (1)-012072 (7)
- 2013** [Speech enhancement based on compressive sensing algorithm.](#) IOP Conference Series: Materials Science and Engineering Email alert RSS feed , 53 pp.012076

- 2013** [Human gait recognition and classification using similarity index for various conditions](#) . IOP Conference Series: Materials Science and Engineering , 53 (Conf.1) pp.012069-1
- 2013** [Wavelet cepstral coefficients for isolated speech recognition](#). TELKOMNIKA Indonesian Journal of Electrical Engineering , 11 (5) pp.2731-2738
- 2013** [Development of portable automatic number plate recognition system on android mobile phone](#). IOP Conference Series: Materials Science and Engineering , 53 (012066) pp.1-10
- 2012** [Development of low bit rate speech encoder based on vector quantization and compressive sensing](#). Journal of Applied Sciences pp.1-11
- 2012** [Development of a electrically inspired low emission microcontroller based hybrid vehicle](#). American Journal of Applied Sciences , 9 (10) pp.1729-1735
- 2012** [Parallelization of speech compression based algorithm based on human auditory system on multicore system](#). Journal of Applied Sciences , 12 (4) pp.375-380
- 2012** [Modelling and control of laboratory scale conveyor belt type grain dryer plant](#) . Journal of Food, Agriculture & Environment , 10 (2) pp.1384-1388
- 2011** [Low bit rate video coding for remote desktop operation of CNC milling](#) . Advanced Materials Research , 264 pp.1631-1636
- 2011** [Multilayers fast mode decision algorithms for scalable video coding](#) . Australian Journal of Basic and Applied Sciences , 5 (12) pp.3209-3216
- 2010** [Forward masking threshold estimation using neural networks and its application to parallel speech enhancement](#). IIUM Engineering Journal , 11 (1) pp.15-26
- 2010** [Complexity evaluation in scalable video coding](#). Advances Multimedia - an International Journal (AMIJ) , 1 (1) pp.12-25
- 2010** [Perceptual speech enhancement exploiting temporal masking properties of human auditory system](#). Speech Communication , 52 (5) pp.381-393
- 2009** [Novel framework for hidden data in the image page within executable file using computation between advanced encryption standard and distortion techniques](#). International Journal of Computer Science and Information Security , 3 (1) pp.1-6
- 2009** [New approach of hidden data in the portable executable file without change the size of carrier file using statistical technique](#). International Journal of Computer Science and Network Security (IJCSNS) , 9 (7) pp.218-224
- 2007** [SMaTTS: standard malay text to speech system](#). International Journal of Electrical and Computer Engineering , 4 (2) pp.285-293

Conference or Workshop Item

- 2020** [A summarization of the visual depression databases for depression detection](#). In: **6th International Conference on Wireless and Telematics (ICWT) 2020**
- 2020** [Speech emotion recognition using convolution neural networks and deep stride convolutional neural networks](#). In: **6th International Conference on Wireless and Telematics (ICWT) 2020**

- 2020 [Development of voice-based smart home security system using Google voice kit.](#) In: **6th International Conference on Wireless and Telematics (ICWT) 2020**
- 2020 [Security enhancement of smart home system using signature recognition on Raspberry Pi.](#) In: **6th International Conference on Wireless and Telematics (ICWT) 2020**
- 2020 [Multilanguage speech-based gender classification using time-frequency features and SVM classifier.](#) In: **The 2nd International Conference on Innovative Technology, Engineering and Sciences 2020 (iCITES 2020)**
- 2020 [Social network analysis using Python data mining.](#) In: **8th International Conference on Information Technology for Cyber and IT Service Management (CITSM 2020)**
- 2020 [Development of very low frequency data acquisition system using Raspberry Pi.](#) In: **8th International Conference on Information Technology for Cyber and IT Service Management (CITSM 2020)**
- 2020 [Introduction to signal processing and machine learning.](#) In: **Webinar Ilmu Komputer**
- 2020 [Writing Science: write papers that get cited and proposals that get funded.](#) In: **Webinar on Engineering Series: Pelatihan Penulisan Artikel Ilmiah Internasional**
- 2020 [Introduction to signal processing and machine learning and its relation to IR 4.0.](#) In: **Webinar on Development and Implementation of Artificial Intelligence in the Era of Industrial Revolution 4.0 and Society 5.0**
- 2020 [Final year project writing: how to write like a professional writer.](#) In: **ECE FYP1 Briefing**
- 2020 [IoT Security: IoT framework, current trends, and recent advances.](#) In: **Webinar on The Science of Big Data, Security, and Best Practice of IoT**
- 2020 [The influence of gender and level of education on motivations for seeking health information online among parents.](#) In: **The 8th International Conference on Cyber and IT Service Management (CITSM 2020)**
- 2020 [A conceptual paper on the influence socio-economic status on attitude towards online health information seeking behavior: a Malaysian women context.](#) In: **The 8th International Conference on Cyber and IT Service Management (CITSM 2020)**
- 2020 [Recent advances in Internet of things and edge computing.](#) In: **Seminar Nasional Teknik Elektro (SENTER) 2020**
- 2020 [Recent advances in IoT, edge computing and its applications.](#) In: **The 2nd TALENTA International Conference on Science and Technology 2020**
- 2019 [Mobile application for Halal food ingredients identification using optical character recognition.](#) In: **2018 IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**
- 2019 [Feature selection for financial data classification: Islamic finance application.](#) In: **2018 IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**

- 2019 [On the selection of culminating courses for outcome-based education evaluation at engineering education.](#) In: **International Conference on E-Learning 2019**
- 2019 [Cyberbullying in e-Learning platform: a text mining analytics.](#) In: **International Conference on E-Learning 2019**
- 2019 [Herb leaves pattern recognition using digital microscope and deep learning.](#) In: **International Conference on Universal Wellbeing (ICUW2019)**
- 2019 [Comparative analysis of gender identification using speech analysis and higher order statistics.](#) In: **2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019)**
- 2019 [Food intake calorie prediction using generalized regression neural network.](#) In: **2018 IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**
- 2019 [On the optimum speech segment length for depression detection.](#) In: **2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019)**
- 2019 [Mamdani-based fuzzy logic controller for travel angle control of bench-top helicopter.](#) In: **2018 IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**
- 2019 [Development of smart chicken poultry farm using RTOS on Arduino.](#) In: **2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019)**
- 2019 [Development of social network analysis platform.](#) In: **2019 IEEE 6th International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2019)**
- 2019 [Performance evaluation for SE 113 flow control system plant using self-tuning fuzzy PI controller.](#) In: **5th IEEE International Conference on Smart Instrumentation, Measurement and Application (ICSIMA 2018)**
- 2018 [Online information seeking behavior for cancer related disease: A developed and developing country comparison.](#) In: **International Conference on Computing, Engineering, and Design (ICCED) 2017**
- 2018 [Effect of duty cycle on THD for multilevel inverter based on selective harmonic elimination technique.](#) In: **2018 7th International Conference on Computer Communication Engineering (ICCCE2018)**
- 2018 [Investigation of lower limb's muscle activity during performance of solat between two groups.](#) In: **4th International Conference on Electronic Design(ICED 2018)**
- 2018 [Development of power factor meter using Arduino.](#) In: **2018 IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**
- 2018 [Development of air quality measurement system using raspberry Pi.](#) In: **2018 IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**

- 2018 [Performance evaluation for SE113 flow control system plant using self-tuning fuzzy PI controller.](#) In: **2018 IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**
- 2018 [Development of offline handwritten signature authentication using artificial neural network.](#) In: **International Conference on Computing, Engineering, and Design (ICCED 2017)**
- 2018 [Kinematic analysis of rotary car parking system mechanism.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications, ICSIMA 2017**
- 2018 [Nonstationary signal reconstruction from TVAR coefficients.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications, ICSIMA 2017**
- 2018 [Analysis of adaptive video streaming for users with demand heterogeneity.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA) 2017**
- 2018 [Development of school bus security system based on RFID and GSM technologies for Klang Valley Area.](#) In: **2018 IEEE 5th International Conference on Smart Instrumentation, Measurement and Application (ICSIMA)**
- 2018 [A systematic approach for developing course learning outcomes to fulfill accreditation requirements in Malaysia.](#) In: **7th World Engineering Education Forum 2017**
- 2017 [Miniaturized water flow and level monitoring system for flood disaster early warning.](#) In: **IOP Conf. Series: Materials Science and Engineering 260 (2017)**
- 2017 [Design and development of wireless PPG data acquisition for health monitoring application using bluetooth module.](#) In: **14th Student Conference on Research and Development, IEEE (SCoReD2016)**
- 2017 [A review of lossless audio compression standards and algorithms.](#) In: **International Conference on Electrical and Electronic Engineering 2017 (IC3E2017)**
- 2017 [Low altitude balloon IoT tracker.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA) 2017**
- 2017 [Traffic intensity monitoring using multiple object detection with traffic surveillance cameras.](#) In: **2017 IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2017)**
- 2017 [Investigation of various algorithms on multichannel audio compression.](#) In: **2017 IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2017)**
- 2017 [Development of modular smart farm system.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA) 2017**
- 2017 [Development of language identification system using MFCC and vector quantization.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA) 2017**

- 2017 [Performance analysis of IEEE 1857.2 lossless audio compression linear predictor algorithm.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA) 2017**
- 2017 [Refined adaptive video quality demands over heterogeneous networks.](#) In: **4th IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA) 2017**
- 2017 [A comparative study between SPWM and SHE-PWM modulation techniques for DC-AC inverters.](#) In: **IEEE 3rd International Conference on Engineering, Technologies and Social Sciences 2017 (ICETSS-2017)**
- 2017 [The development of a smart food container for balanced diet intake.](#) In: **5th Asia Pacific Conference on Public Health Supplement 2017**
- 2017 [Development of fuzzy logic controller for Quanser bench-top helicopter.](#) In: **6th International Conference on Mechatronics (ICOM'17)**
- 2017 [Selective harmonics elimination technique in single phase unipolar H-bridge inverter.](#) In: **14th Student Conference on Research and Development, IEEE (SCoReD2016)**
- 2016 [On the characteristics of various Quranic recitation for lossless audio coding application.](#) In: **6th International Conference on Computer and Communication Engineering (ICCCCE 2016)**
- 2016 [An activity monitoring system for senior citizens living independently using capacitive sensing technique.](#) In: **Conference Record - IEEE Instrumentation and Measurement Technology Conference**
- 2016 [Modulation optimization effect on total harmonic distortion of single phase H-bridge inverter based selective harmonics E limination technique.](#) In: **6th International Conference on Computer and Communication Engineering (ICCCCE 2016)**
- 2016 [Speech enhancement in non-stationary noise using compressive sensing.](#) In: **6th International Conference on Computer and Communication Engineering (ICCCCE 2016)**
- 2016 [Effect of modulation index of pulse width modulation inverter on total harmonic distortion for sinusoidal.](#) In: **International Conference on Intelligent Systems Engineering**
- 2016 [Effect of modulation index of pulse width modulation inverter on total harmonic distortion for sinusoidal.](#) In: **"International Conference on Intelligent Systems Engineering, ICISE 2016"**
- 2014 [Human gait recognition: viewing angle effect on normal walking pattern.](#) In: **5th International Conference on Computer and Communication Engineering (ICCCCE 2014)**
- 2014 [S-Rater: data mining application in Islamic financial sector.](#) In: **2014 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)**
- 2014 [Self-tuning deadbeat PD controller for pitch angle control of a bench-top helicopter.](#) In: **5th International Conference on Computer and Communication Engineering (ICCCCE 2014)**

- 2014 [Wireless power transmission system based on magnetic inductive resonance of couple circuit.](#) In: **International Conference on Computer and Communication Engineering (ICCCE2014)**
- 2014 [Qualitative analysis on watermarking algorithm for large resolution camera phone image.](#) In: **5th International Conference on Computer and Communication Engineering (ICCCE2014)**
- 2014 [Complexity algorithm analysis for edit distance.](#) In: **5th International Conference on Computer and Communication Engineering (ICCCE2014)**
- 2014 [Evaluation of various leakage current paths with different switching conditions.](#) In: **5th International Conference on Computer and Communication Engineering (ICCCE2014)**
- 2014 [A comparative analysis of QRS and cardioid graph based ECG biometric recognition in different physiological conditions.](#) In: **IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA2014)**
- 2014 [Development of robust quantitative feedback theory controller for quanser bench-top helicopter.](#) In: **IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2014)**
- 2014 [Robust adaptive LQR control of nonlinear system application to 3-Dof flight control system.](#) In: **IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2014)**
- 2014 [Improvement of wiener filter based speech enhancement using compressive sensing.](#) In: **IEEE International Conference on Smart Instrumentation, Measurement and Applications (ICSIMA 2014)**
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