



ICITACEE 2017 THE 4[®] INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY COMPUTER, AND ELECTRICAL ENGINEERING

Green TECHNOLOGY for the Better Future in Information Technology, Electrical, and COMPUTER ENGINEERING Implementation





Awarded to

ABDUL SYAKUR

as

PRESENTER

THE 4th INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY, COMPUTER, AND ELECTRICAL ENGINEERING

(ICITACEE 2017)

Department of Computer Engineering, Diponegoro University Semarang, 18 - 19 October 2017

Ir. M. Agung Wibowo, M.M., M.Sc., Ph.D



General Chair

NOMOR 716/UN7.P/HK/2017.

Dean of Faculty Engineering, Diponegoro University

JE.

Scopus	Search	Sources Lis [.]	ts SciVal ⊅	ĵ Ĵ	Create account Sign ir
Document deta	ails				
< Back to results < Previous - 귀 Export 관 Download 믑 View at Publisher	11 of 26 Next > Print ⊠E-mail S:	ave to PDF 🕁 /	Add to List More)	,	Metrics ⑦ View all metrics >
Proceedings - 2017 4th Internati Electrical Engineering, ICITACEE Volume 2018-January, 1 July 201 4th International Conference on ICITACEE 2017; The Wujil Resor 2017 through 19 October 2017;	onal Conference on Infor 2017 7, Pages 123-126 Information Technology, : and ConventionsSemara Category numberCFP178	mation Technolog Computer, and El Ing; Indonesia; 18 9Z-PRT; Code 134	gy, Computer, and lectrical Engineering, © October 1244		PlumX Metrics ~ Usage, Captures, Mentions, Social Media and Citations beyond Scopus.
Experimental study of type (Conference Paper) Syakur, A. ⊠, Nugroho, A., Department of Electrical Engined Tembalang, Semarang, 50275, Ir	n lightning air ten Napitupulu, A.B. ⊠ ering, Faculty of Engineer donesia	rminal perfo ing, Diponegoro (ormance based University, Jln. Prof. So	on material Dedarto SH,	Cited by 0 documents
Abstract Lightning air terminal is a main conductor which has a construct electric charge. The main param- terminals seen from the breakdo	part of the external lightn ion in the formed side of eters that determine both	ing protection sys lightning air term the deficient perf	✓ V stem in the form of an ninal tapered shape as formance of a Franklir ning air terminal bace	iew references (5) upright rod collector's static 's lightning air d on material types	is cited in Scopus: Set citation alert > Set citation feed >
This research was conducted for namely copper, aluminum and g terminals (LAT) based on differer Variables that are sought in the f from the study showed that the t current to the ground as seen fro different with the same gap. At a probability of the type of materia of 8.23 KV breakdown voltage wi probability of the type of materia	6 times experiments usin alvanized iron (standard I at type of material using a form of breakdown voltag ype of material from ligh om the breakdown voltage gap of 1 cm, test uses th I exposed to breakdown v th 0.06 Ω resistance. Test I exposed to breakdown v 48 with 0.08 Ω resistance	g lightning air ter EC 62305). The m high voltage DC e and resistance o tning air terminal e level. The level o ree types of mater roltage on the type s with two kinds o roltage on the type a. Testing with one	rminals with 3 different nethod used is testing negative polarity by a of each lightning air te s affect the ability to d of breakdown voltage f rials testing of lightnin es of copper by 100% of materials of lightnin es of aluminum at 100 e type of material of light	t type of material, the Lightning air djusting the gap. rminals. The results eliver the lightning or each material is g air terminals, the with an average value g air terminal, the % with an average	Related documents Characterization of a metallic pearl-like necklace stroked by lightning: Preliminary results Latorre, J.A. , Rodríguez, J.E. , Martínez, C.A. (2016) 2016 33rd International Conference on Lightning Protection, ICLP 2016 Lightning protection system for light rail transit case on

the probability of the type of material exposed to breakdown voltage on the types of galvanized iron materials by 96.67% with an average value of breakdown voltage of 8.64 KV with 0.10 Ω resistance. © 2017 IEEE.

SciVal Topic Prominence ()

Topic: Lightning | Lightning protection | Lightning shielding

Prominence percentile: 86.540

Author keywords

(air terminal) (breakdown voltage) (conductivity) (lightning protection system) (resistivity)

(j)

Indexed keywords

View all related documents based on references

Lovrić, D., Vujević, S., Modrić, T.

(2013) International Transactions on Electrical Energy Systems

Palembang, Indonesia

(2018) 4th IEEE Conference on Power Engineering and

Renewable Energy, ICPERE 2018

On the estimation of Heidler

function parameters for reproduction of various standardized and recorded lightning current waveshapes

Denov, B., Zoro, R.

- Proceedings

THE 2017 4th INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY, COMPUTER, AND ELECTRICAL ENGINEERING

OCTOBER 18 - 19, 2017

0

The Wujil Resort and Conventions Semarang, October 18 - 19, 2017



DEPARTMENT OF COMPUTER ENGINEERING FACULTY OF ENGINEERING DIPONEGORO UNIVERSITY



Proceedings

The 2017 4th International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)

October 18-19, 2017, Semarang, Indonesia

Editor:

Mochammad Facta Munawar Agus Riyadi Agung Budi Prasetijo Eko Didik Widianto Dania Eridani

Copyright ©2017 by IEEE.

Conference Technical Program Overview

Wednesday-Thursday, October 18-19, 2017

Track: Keynote Speakers

Room: Plenary

NO	ID	Title	Authors
1	KEY-01	Bioinspired Algorithms for Internet of Things Network	Riri Fitri Sari
2	KEY-02	Assessing Information Security Culture: The Case of Malaysia Public Organization	Mohamad Noorman Masrek
3	KEY-03	4th Industrial Revolution: The Future of Machining	Azli Yahya

Track: Electric Power Room: PWR

NO	ID	Title	Authors
1	EPW-01	A Bi-directional Boost Converter-Based Non-Isolated DC-DC Transformer with Modular Solid-State Switches for Medium-/High-Voltage DC Grids	Ahmed Elserougi, Ahmed Massoud, Shehab Ahmed
2	EPW-02	Enhancing the DC Voltage Utilization of Twelve-Switch Voltage Source Inverter Feeding Symmetrical/Asymmetrical Nine-Phase Loads	Ahmed Elserougi, Ibrahim Abdelsalam, Ahmed Massoud, Shehab Ahmed
3	EPW-03	Determination of the Conduction Angle for Switched Reluctance Motor Drive	Slamet Riyadi
4	EPW-04	Load Shedding and Forecasting in Distribution Systems with PV-based Distributed Generation and Electric Vehicles	Anas Tahir, Ahmed Massoud
5	EPW-05	A Three-Level Common-Emitter Current Source Inverter with Reduced Device Count	Suroso, Daru Tri Nugroho, Winasis Winasis
6	EPW-06	Reduction of Cogging Torque on Brushless Direct Current Motor with Segmentation of Magnet Permanent	Rudy Setiabudy, Herlina, Yudha Sasmita Putra
7	EPW-07	Optimal Photovoltaic Placement at the Southern Sulawesi Power System for Stability Improvement	Ardiaty Arief, Muhammad Bachtiar Nappu, Sitti Marwah Rachman, Mustadir Darusman

4/28/2020	"bioinspired	d algorithms for Internet of Th	hings network" - IE	EE Conference	e Publication
IEEE.org IEEE Xplore	Digital Library IEEE-SA IEEE	Spectrum More Sites		Ca	rt Create Account Personal Sign In
		Institutional Sign	In		
Browse	My Settings	Get Help	Subscribe		
Conferences > 2017 4th		rnot of Things pe	otwork"		
Publisher: IEEE	Cite This Cite This				
1 Author(s) Ir. Riri	i Fitri Sari) View All Authors				
176 Full Text Views			Export te	Alerts Manage Content Alerts Add to Citation Alerts	More Like This Efficient router node deployment for ZigBee based Internet of Things network using Physarum optimization algorithm 2017 International Conference on Information and Communication Technology Convergence (ICTC) Published: 2017 Research on Risk Assessment Method of Internet of Things Architecture Based on Parameter Joint Optimization 2019 International Conference on Robots &
Abstract Authors	Downi PDF				Intelligent System (ICRIS) Published: 2019 View More
Keywords Metrics More Like This	Abstract: The Internet of Thi smart cities, smart buildings, smart h View more Metadata Abstract: The Internet of Things (IoT) h smart buildings, smart homes smart health, smart factories, smart manufacturing, autonor infrastructure and manageme and crowdsourcing as inform optimization and new approa evolution of technology, and s major development of system overcome the challenges of h bioinspired researches for co systems engineering. We will introduced bio-inspired algori will discuss some example le Bioinspired algorithm taxonor overcome challenges such as and security will be discussed	ngs (IoT) has come towards smart homes, smart kitchens has come towards its peak tin s, smart kitchens, smart appli smart machines, smart appli mous vehicles, smart consur- ent will be based on the smar ation sources. The future of I ches for application of interfa system security. IoT success as engineering processes and oT Network. This talk will dis mmunication technology in lo discuss computational iterat thms, which is inspired by liv arned from the intelligence o my such evolution, swarm, eo s resource constraint, scalab d. The optimization technique	its peak time which s, smart appliances ne which includes s iances, security, sn oly chain, smart tra ner devices, etc. Th t systems which ha oT success depen- ices, allocation of b will only be realized d tools that will be a cuss some state of oT Network as an e tive optimization wh ing creature organi f living organism in cology, network, im ility, heterogeneity, as used in Researce	a includes , security, smart cities, nart home, nsportation, ne as sensors ds on the ehaviours, d through able to the art example of nich sms. We nature. mune to mobility h in	Top Organizations with Patents on Technologies Mentioned in This Article ORGANIZATION 4 ORGANIZATION 3 ORGANIZATION 2 ORGANIZATION 1

IEEE websites place cookies on your device to give you the best user experience. By using our we structure will be exposed in this presentation. We will also discuss bioinspired algorithm you agree to the placement of these cookies. To learn more, read our Privacy Policy. application for network deployment, clustering, routing and security.

Published in: 2017 4th International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)				
Date of Conference: 18-19 Oct. 2017	INSPEC Accession Number: 17503378			
Date Added to IEEE Xplore: 15 January	DOI: 10.1109/ICITACEE.2017.8257662			
2018	Publisher: IEEE			
ISBN Information:	Conference Location: Semarang, Indonesia			
Ir. Riri Fitri Sari				

Computer Engineering, Faculty of Engineering, University of Indonesia

Authors	^
Ir. Riri Fitri Sari Computer Engineering, Faculty of Engineering, University of Indonesia	
Keywords	~
Metrics	~

IEEE Personal Account	Purchase Details	Profile Information	Need Help?	Fo	llov	V	
CHANGE USERNAME/PASSWORD	PAYMENT OPTIONS	COMMUNICATIONS PREFERENCES	US & CANADA: +1 800 678 4333	f	in	1	y
	VIEW PURCHASED DOCUMENTS	PROFESSION AND EDUCATION	WORLDWIDE: +1 732 981 0060				
		TECHNICAL INTERESTS	CONTACT & SUPPORT				

About IEEE *Xplore* | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2020 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.

IEEE Account	Purchase Details	Profile Information	Need Help?
» Change Username/Password	» Payment Options	» Communications Preferences	» US & Canada: +1 800 678 4333
» Update Address	» Order History	» Profession and Education	» Worldwide: +1 732 981 0060
	» View Purchased Documents	» Technical Interests	» Contact & Support

About IEEE Xplore | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. © Copyright 2020 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.

IEEE websites place cookies on your device to give you the best user experience. By using our websites, you agree to the placement of these cookies. To learn more, read our Privacy Policy.

/28/2020	Assessing information s	security culture: The case	of Malaysia public org	anization - IEE	E Conference Publication
IEEE.org IEEE Xplore	e Digital Library IEEE-SA IEE	E Spectrum More Sites		Ca	rt Create Account Personal Sign In
		Institutional Si	gn In		
Browse	My Settings	Get Help	Subscribe		
Conferences > 2017 4th		/ culture: The c	ase of Malav	sia	
public organ	ization		,		
Publisher: IEEE	Cite This Cite This	s 🕒 PDF			
1 Author(s) Moha	amad Noorman Masrek View All	Authors			
			Export to	0	More Like This
158 Full Text Views			Collabratec	Alerts Manage Content Alerts	Rule-Based Business Data Processing in Service Coordination Systems 2014 Ninth International Conference on Broadband and Wireless Computing, Communication and Applications Published: 2014
				Add to Citation Alerts	A semantic preserving CEP based approach for business data processing 2016 12th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-FSKD) Published: 2016
Abstract					View More
Authors	Downl PDF				Top Organizations with Patents on Technologies Mentioned in
Keywords	Abstract: In line with the gro breaches, there is also a gro	wing number of reported wing interest among rese	cases of information s archers to study inform	ecurity nation	ORGANIZATION 4
	security cultu View more				ORGANIZATION 3
More Like This	Metadata				ORGANIZATION 2
	In line with the growing numl there is also a growing intere To this effect, researchers ha assessing and developing in or frameworke are not a silve	per of reported cases of in est among researchers to ave developed various mo formation security culture.	formation security bre study information secu dels and frameworks f . However, most of the	aches, urity culture. for use models	
	settings. The requirements a from one organization to othe was conducted with the aim in the context of Malaysian p	of build which can be easily and the characteristics of ir er organization. On the ba of identifying the dimension bublic organizations. The fi	ny applied to all organi nformation security cul asis of this background ons of information secu ramework for assessin	Iture differ , this study urity culture	
	information security culture v verified through experts' inte management support, policy	vas developed through ex rviews. The framework co and procedures, complia	tensive literature revie insists of six component nce, awareness, budg	w and nts, namely, et and	
	technology. A corresponding security culture and administ ministries. The respondents	scale was also developed ered to Malaysian public of were requested to indicate	d to assess the information of the feature of the feature of the feature of the feature of the aspects that are	ation deral considered	
	crucial and important in deve directors responded to the su	loping an information sec revev. The results showed	urity culture. A total of	293 IT	
IEEE websites pl	acecomplies low weinded to the st	toagine somitice besties	action of the alorente	using our wel	osites,
you agree to the	placethion(Tof these bookless theoretical, practical and em	n etistrambrejessait s pirical. From a theoretical	tin threated ponergely standpoint, it has deve	/ eloped an	Accept & Close

https://ieeexplore.ieee.org/document/8257663/authors#authors

		sing mormation security culture.	: The case of Malaysia public organiza	ation - IE	EEE Conference Publicat	ion	
	empirical based framework for assessing information security culture. From a practical standpoint, the scale or instrument developed in the study can be used to gauge the level of information security culture and finally from the empirical standpoint, it has provided additional empirical evidence on the st						
	Published and Electric						
	Date of Co	onference: 18-19 Oct. 2017	INSPEC Accession Number: 17503	3391			
	Date Adde	d to IEEE Xplore: 15 January	DOI: 10.1109/ICITACEE.2017.82576	63			
		ia um ati a m	Publisher: IEEE				
	ISBN IN	ormation:	Conference Location: Semarang, Indonesia				
	Mohamad Noorman Masrek Faculty of Information Management, MARA Universiti Teknologi MARA, Shah Ala Selangor, Malaysia			am			
	Authors						
	Mohamad Noorman Masrek Faculty of Information Management, MARA Universiti Teknologi MARA, Shah Alam Selangor, Malaysia			lam			
	Keywords			~			
	Metrics			~			
IEEE Personal Acc	ount	Purchase Details	Profile Information	Nee	d Help?	Follow	
CHANGE USERNAME/PA	SSWORD	PAYMENT OPTIONS	COMMUNICATIONS PREFERENCES	US & (CANADA: +1 800 678 4333	f in	
		VIEW PURCHASED DOCUMENTS	PROFESSION AND EDUCATION	WORL	DWIDE: +1 732 981 0060		
			TECHNICAL INTERESTS	CONT	ACT & SUPPORT		
About IEEE Xplore Conta A not-for-profit organizatio	ct Us Help A n, IEEE is the v	Accessibility Terms of Use Nondiscrimit vorld's largest technical professional orga	nation Policy Sitemap Privacy & Opting Out anization dedicated to advancing technology fo	of Cookies r the bene	s fit of humanity.		
© Copyright 2020 IEEE - A	II rights reserve	ed. Use of this web site signifies your ag	reement to the terms and conditions.				
		Purchase Details	Profile Information	I	Need Help?		
IEEE Account							
IEEE Account » Change Username/Pa	ssword	» Payment Options	» Communications Preferences		» US & Canada: +1 800 67	8 4333	

© Copyright 2020 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions. IEEE websites place cookies on your device to give you the best user experience. By using our websites, you agree to the placement of these cookies. To learn more, read our Privacy Policy.

4/28/2020	4 th	Industrial revolution: The	e future of machining	- IEEE Confer	ence Publication
IEEE.org IEEE Xplore	Digital Library IEEE-SA IEEE	Spectrum More Sites		Са	rt Create Account Personal Sign In
		Institutional Sig	jn In		
Browse	My Settings	Get Help	Subscribe		
Conferences > 2017 4th	International Confer				
4" INGUSTRIAI	Cito This		ng		
1 Author(s) Azli Ya	ahya View All Authors				
			Export t	0	
349 Full Text Views			Collabratec	Alerts Manage Content Alerts Add to Citation Alerts	More Like This Predicting Material Removal Rate of Electrical Discharge Machining (EDM) using Artificial Neural Network for High Igap current International Conference on Electrical, Control and Computer Engineering 2011 (InECCE) Published: 2011 Development of intelligent sensing unit for micro-electrical discharge machining 2017 56th Annual Conference of the
Abstract					Engineers of Japan (SICE) Published: 2017
Authors	Downl PDF				View More
Keywords Metrics	Abstract: The Industrial Revo metal manufacturing, transpor promote the re View more	lution was a period of cha tation and socio-economy	anges in agriculture, t y of England. The cha	extile and anges	Top Organizations with Patents on Technologies Mentioned in This Article
More Like This	Metadata				ORGANIZATION 4
	Abstract:	a period of changes in ac	nriculture textile and	metal	ORGANIZATION 3
	manufacturing, transportation	and socio-economy of Er	ngland. The changes	promote the	ORGANIZATION 2
	revolution in a way of advance resulted in an increased of raw plantation was to allow the lan discovered that the fertility of t other legumes. As a result, the food for sustaining the livestoc technology agriculture organiz efficiency as well as profits. Th now, directly or indirectly will a other with a huge number of e Revolution indicated that comp or face the struggle or failure a be better at their jobs rather th example, the machining proce focus operators are still neede	d techniques and practice waterials and food. For d to rest after the cultivat he soil can be restored by e yearly yields is improved k through winter. Further ation, drastically change he world is changing and ffect us. People and mac ngineering applications. To banies and industries mus at worst. However, with th an worrying that the hum ss of Electrical Discharge d due to the nature of the antion systems nave been	es such as in agricult example, an old prac- tion activities. However y the cultivation of clo d that leads to the inco- more, the adaptation the production volum the 4th Industrial Rev chines are connected The arrival of the 4th st adapt with the new he recent technology, han skills will be deval e Machining system, a e machining parameter	ure, which tice in trite in er, it was over and reased of of new es, rolution is to each industrial technology people can ued. As for a skill and ers	

IEEE websites place ctiokies on your performance is the potential to empower operators to a far greater degree you agree to the placement of these cookies. To learn more, read our Privacy Policy, than in the past by unlocking the latent creativity through experience, perception and

Accept & Close

nce Publication

Conference Location: Semarang,

4 th Industrial re imagination for betterment of product. In ac	volution: The future of machining - IEEE Conferendition, the industry will always need workers'				
brilliance, ingenuity and skills on the front line and in the field work for making smarter decision, so					
(View more)					
Published in: 2017 4th International Confe and Electrical Engineering (ICITACEE)	erence on Information Technology, Computer,				
Date of Conference: 18-19 Oct. 2017	INSPEC Accession Number: 17455186				
Date Added to IEEE Xplore: 15 January	DOI: 10.1109/ICITACEE.2017.8257664				
2018	Publisher: IEEE				
ISBN Information:					

Indonesia

Azli Yahya

Faculty of Electrical Engineering, Universiti Teknologi Malaysia

Contents

The Industrial Revolution was a period of changes in agriculture, textile and metal manufacturing, transportation and socio-economy of England. The changes promote the revolution in a way of advanced techniques and practices such as in agriculture, which resulted in an increased of raw materials and food. For example, an old practice in plantation was to allow the land to rest after the cultivation activities. However, it was of clover and other legumes. As a result, the yearly yields is improved that leads to the increased of food for sustaining the livestock through winter. Furthermore, the adaptation of new technology agriculture organization, drastically change the production volumes, efficiency as well as profits.

Authors	^
Azli Yahya Faculty of Electrical Engineering, Universiti Teknologi Malaysia	
Keywords	~
Metrics	~

IEEE Personal Account

Purchase Details

Profile Information

CHANGE USERNAME/PASSWORD

PAYMENT OPTIONS

Need Help?

Follow

f in

VIEW PURCHASED DOCUMENTS

COMMUNICATIONS PREFERENCES PROFESSION AND EDUCATION TECHNICAL INTERESTS

US & CANADA: +1 800 678 4333 WORLDWIDE: +1 732 981 0060 CONTACT & SUPPORT

A mol-tor-print organization, let let the world's largest technical professional organization dedicated to advancing technology tor the benefit of humanity IEEE websites place cookies on your device to give you the best user experience. By using our websites, youragree to the placement of these cookies: To learn more, read our Privacy Policy.

The 2017 4th International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)

Conference Committee

General Chair : Agung Budi Prasetijo (Universitas Diponegoro)

Co-Chair : Aghus Sofwan (Universitas Diponegoro)

Secretary : Dania Eridani

Organizing Committee:

Munawar Agus Riyadi R. Rizal Isnanto Risma Septiana Andi Widiasmoro Melati Mawas Titi Eko Didik Widianto Yudi Eko Windarto Kurniawan Teguh Martono Adnan Fauzi

Steering Committee:

Hiroshi Ochi (Kyushu Institute of Technology, Jepang) Hiroshi Furukawa (Kyushu University, Jepang) Kuncoro Wastuwibowo (IEEE Indonesia Section) Trio Adiono (IEEE Solid State Circuits Indonesia Chapter) Mauridhi Hery Purnomo (Sepuluh Nopember Institute of Technology) Razali Ismail (University Teknologi Malaysia) Taufik (California Polytechnic State, USA)

Technical Program Committee:

Mochammad Facta (Diponegoro University, Indonesia) Masayuki Kurosaki (Kyushu University, Japan) Trio Adiono (Bandung Institute of Technology, Indonesia) P. Insap Santosa (Gadjah Mada University, Indonesia) Hermawan (Diponegoro University, Indonesia) Mauridhi Hery Purnomo (Sepuluh Nopember Institute of Technology, Indonesia) Khoirul Anwar (Japan Advanced Institute of Science and Technology, Japan) Wahyudi (Diponegoro University, Indonesia) Tole Sutikno (Ahmad Dahlan University, Indonesia) Wahyul Amien Syafei (Diponegoro University, Indonesia) Munawar Agus Riyadi (Diponegoro University, Indonesia) Sidiq Syamsul Hidayat (Semarang State Polytechnics, Indonesia) Supari (Semarang University, Indonesia) Slamet Riyadi (Soegijapranoto Katholic University, Indonesia) M. Haddin (Sultan Agung Islamic University, Indonesia) Onil Nazra Persada (CIRELA, France) Zolkafle Buntat (Universiti Teknologi Malaysia) Taufik (California Polytechnic State University, USA) Hashim Uledi Iddi (University of Dar es Salaam, Tanzania) Aris Triwiyatno (Diponegoro University, Indonesia) Pandu Sandi Pratama (Pusan National University, South Korea) Razali Ismail (Universiti Teknologi Malaysia, Malaysia) Ismail Saad (University Malaysia Sabah, Malaysia) Oky Dwi Nurhayati (Diponegoro University, Indonesia)

TABLE OF CONTENTS

Keynote Speakers

- 1 Bioinspired Algorithms for Internet of Things Network *Riri Fitri Sari*
- 2 Assessing Information Security Culture: The Case of Malaysia Public Organization Mohamad Noorman Masrek
- 3 4th Industrial Revolution: The Future of Machining Azli Yahya

Computer Science

5 Mapping Multiple Databases to Resource Description Framework with Additional Rules as Conclusions Drawer

Atleiya Julianita, Saptadi Nugroho, Banu Wirawan Yohanes

- 9 Designing Android Reward System Application in Education to Improve Learning Quality Ratih Isnaini, Basori Basori, Rosihan Ari Yuana, Dwi Maryono
- 15 Location Prediction Model using Naïve Bayes Algorithm in a Half-open Building Banu Wirawan Yohanes, Samuel Yanuar Rusli, Hartanto Kusuma Wardana
- 20 A System Engineering Approach to the Implementation of the Internet of Things (IoT) in a Country *Muhammad Suryanegara, Ajib Setyo Arifin, Muhamad Asvial, Gunawan Wibisono*
- 24 Application of Design Patterns and Quality Measurement on Academic Information Systems Siti Rochimah, Afif Ishamsyah Hantriono, Rizky Januar Akbar, Andreyan Rizky Baskara
- 31 Part of Speech Features for Sentiment Classification based on Latent Dirichlet Allocation *Eka Surya Usop, R. Rizal Isnanto, Retno Kusumaningrum*
- 35 A Multiple Classifiers Broadcast Protocol for VANET Sami S. Alwakeel, Hesham A. Altwaijry, Agung B. Prasetijo
- 41 Buy/Sell Signal Detection in Stock Trading with Bollinger Bands and Parabolic SAR with Web Application for Proofing Trading Strategy
 A sume P. Presettion Table A. Seputro, Use P. Windowski, Vidi F. Windowski, Web Application for Proofing Trading Strategy

Agung B. Prasetijo, Takdir A. Saputro, Ike P. Windasari, Yudi E. Windarto

- 45 Hoax Detection System on Indonesian News Sites Based on Text Classification using SVM and SGD Agung B. Prasetijo, R. Rizal Isnanto, Dania Eridani, Yosua Alvin Adi Soetrisno, M. Arfan, Aghus Sofwan
- 50 Analysis of Custody Transfer on Moving Bundle Protocol of Wireless Router in Delay Tolerant Network (DTN) Fitri Noviani, Deris Stiawan, Sri Desy Siswanti, Tri Wanda Septian, Munawar A. Riyadi, Fahad Aljaber, Rahmat Budiarto

Electric Power

- 54 A Bi-directional Boost Converter-Based Non-Isolated DC-DC Transformer with Modular Solid-State Switches for Medium-/High-Voltage DC Grids *Ahmed Elserougi, Ahmed Massoud, Shehab Ahmed*
- 60 Enhancing the DC Voltage Utilization of Twelve-Switch Voltage Source Inverter Feeding Symmetrical/Asymmetrical Nine-Phase Loads *Ahmed Elserougi, Ibrahim Abdelsalam, Ahmed Massoud, Shehab Ahmed*
- 66 Determination of the Conduction Angle for Switched Reluctance Motor Drive *Slamet Riyadi*
- Load Shedding and Forecasting in Distribution Systems with PV-based Distributed Generation and Electric Vehicles
 Anas Tahir, Ahmed Massoud

- 77 A Three-Level Common-Emitter Current Source Inverter with Reduced Device Count Suroso Suroso, Daru Tri Nugroho, Winasis Winasis
- 81 Reduction of Cogging Torque on Brushless Direct Current Motor with Segmentation of Magnet Permanent
 - Rudy Setiabudy, Herlina Herlina, Yudha Sasmita Putra
- 87 Optimal Photovoltaic Placement at the Southern Sulawesi Power System for Stability Improvement *Ardiaty Arief, Muhammad Bachtiar Nappu, Sitti Marwah Rachman, Mustadir Darusman*
- 93 Feature Extraction Using Hilbert-Huang Transform for Power System Oscillation Measurements Buyung Sofiarto Munir, Muhamad Reza, Agung Trisetyarso, Bahtiar Saleh Abbas
- 97 Audit of Harmonic on Residential Loads in Central Java Sapto Nisworo, Deria Pravitasari
- 102 Harmonics Monitoring of Car's Inverter using Discrete Fourier Transformation Mat Syai'in, N.H. Rohiem, R. K. Tobing, M.A. Atmoko, M. F. Adiatmoko, A. Soeprijanto, A.M Hatta, Sekartedjo Sekartedjo
- 108 Voltage Sag Mitigation Due To Short Circuit Current Using Dynamic Voltage Restorer Based On Hysteresis Controller

Nizamul Muluk, Agung Warsito, Juningtyastuti Juningtyastuti, Iwan Setiawan

- 113 Design Analysis of Photovoltaic Systems as Renewable Energy Resource in Airport Hermawan Hermawan, Karnoto Karnoto
- 117 Design and Development of Data Acquisition for Leakage Current at Electrical Tracking Test Jumrianto Jumrianto, Wahyudi Wahyudi, Abdul Syakur
- 123 Experimental Study on Lightning Air Terminal Performance based on Material Type Abdul Syakur, Agung Nugroho, Anastasia Br. Napitupulu
- 127 Comparison of Cost Estimation Methods in Power Wheeling for Java-Bali Interconnection System *Hermawan Hermawan, Trias Andromeda*
- 131 Optimization of Gas Turbine Power Plant Economic Dispatch using Cuckoo Search Algorithm Method *Tejo Sukmadi, Ariya Dwi Wardhana, Munawar Agus Riyadi*

Electronics, Robotics and Instrumentation

- 136 Ball Detection Algorithm for Robot Soccer based on Contour and Gradient Hough Circle Transform *Ane Cornelia, Iwan Setyawan*
- 142 Hardware Design of Queuing Free Environmental Friendly Automatic Toll Gate Using RFID W. A. Syafei, A. F. Listyono, Darjat Darjat
- 147 Smart Meter based on Time Series Modify and Constructive Backpropagation Neural Network *M. F. Adiatmoko, Adi Soeprijanto, Mat Syai'in, Nasyith Hananur R*
- 154 The Development of Soil Water Content Detector Amin Suharjono, Muhammad Mukhlisin, Nur Khodijah M. Alfisyahrin
- 158 Applying Maritime Wireless Communication to Support Vessel Monitoring Zahir Zainuddin, Wardi Wardi, Yurika Nantan
- 162 Design of Lungs Volume Measuring Instrument using Pressure Sensor Based on Arduino Uno R3 with Bluetooth Integration Gayuh Nurul Huda, Eko Didik Widianto, Oky Dwi Nurhayati
- 170 Designing and Implementing the Arduino-based Nutrition Feeding Automation System of a Prototype Scaled Nutrient Film Technique (NFT) Hydroponics using Total Dissolved Solids (TDS) Sensor Dania Eridani, Olivia Wardhani, Eko Didik Widianto
- 176 Door And Light Control Prototype Using Intel Galileo Based Internet of Things Yudi Eko Windarto, Dania Eridani
- 181 Particle Swarm Optimization (PSO)-Based Self Tuning Proportional, Integral, Derivative (PID) for Bearing Navigation Control System on Quadcopter Sumardi Sumardi, Muhammad Surya Sulila, Munawar Agus Riyadi
- 187 Design of Integrated SCADA Systems in Piston Production Manufacturing Case Study on the Conveyor, the Coolant, the Hydraulic, and the Alarm Systems using PLC CJ1M and CJ1W-ETN21 Syahril Ardi, Agus Ponco, Rizky Awaludin Latief

28/2020 IFFF ora I IFFF <i>Xplore</i>	Experimental study on	lightning air terminal perforn	nance based on mat	erial type - IEE Ca	E Conference Publication
	g.a	Institutional Sign	n In		
Browse	My Settings	Get Help	Subscribe		
Conferences > 2017 4th Experimenta on material t	International Confer I study on lightnir ype	ng air terminal pe	rformance t	based	
Publisher: IEEE 3 Author(s) Abdul	Cite This Cite Th Syakur ; Agung Nugroho ; Anas	is DF tasia Br. Napitupulu) View All	Authors		
			Export t	0	More Like This
55 Full Text Views			Collabratec	Alerts Manage Content Alerts Add to Citation Alerts	The lightning protection performance of the composite material cross-arm in 10 kV distribution lines 2014 International Conference on Lightning Protection (ICLP) Published: 2014
					- View More
Abstract	Down				Top Organizations with Patents
Document Sections	PDF				on Technologies Mentioned in This Article
 Introduction Experimental Setup Results and Discussion Conclusion 	Abstract: Lightning air tern in the form of an upright roc View more Metadata Abstract: Lightning air terminal is a m	ninal is a main part of the extended of the extension of the extension of the external lightn	ernal lightning protect struction in the forme	ction system ad side of I m in the	ORGANIZATION 4 ORGANIZATION 3 ORGANIZATION 2 ORGANIZATION 1
Authors	form of an upright rod cond air terminal tapered shape a that determine both the defi	uctor which has a constructic as collector's static electric ch icient performance of a Frank	on in the formed side narge. The main para klin's lightning air ten	of lightning ameters minals seen	
Figures	from the breakdown voltage material types. This researce	e level. This study discusses ch was conducted for 6 times	lightning air terminal experiments using l	based on ightning air	
References	terminals with 3 different typ (standard IEC 62305). The	pe of material, namely coppe method used is testing the Li	r, aluminum and gal ightning air terminals	vanized iron s (LAT)	
Keywords	based on different type of n adjusting the gap. Variables	naterial using a high voltage l s that are sought in the form o	DC negative polarity of breakdown voltage	by e and	
Metrics	resistance of each lightning type of material from lightni	air terminals. The results fro ng air terminals affect the abi	m the study showed ility to deliver the ligh	that the ntning	
More Like This	current to the ground as service voltage for each material is three types of materials tes material exposed to breakd	en from the breakdown voltag different with the same gap. ting of lightning air terminals, own voltage on the types of g	ge level. The level of At a gap of 1 cm, tes the probability of the copper by 100% with	f breakdown st uses e type of u an	
IEEE websites pla	average value of 8.23 KV b	reakdown voltage with 0.06 ເ ລຸດີອ ເອເຍເ ສດາຫຼາຍມ ີ່ the bestaus ຄ	ົງ resistance. Tests v ເຜັ ສແກະເຈັດອິດຕ ິກ ຄືນ ອ	vith two Asingposedve	bsites,
vou agree to the r	olateeprenkdorvtheste goorite	s. There af a luncing metad with	vipithivance vie calgoviva	lue of	Accept & Close

breakdown voltage kV 8.48 with 0.08 Ω resistance. Testing with one type of material of

Experimental study on lightning air terminal performance based on material type - IEEE Conference Publication

lightning air terminal, the probability of the type of material exposed to breakdown voltage on the types of galvanized iron materials by 96.67% with an average value of breakdown voltage of 8.64 KV with 0.10 Ω resistance.

Published in: 2017 4th International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)

Date of Conference: 18-19 Oct. 2017	INSPEC Accession Number: 17503420
Date Added to IEEE Xplore: 15 January	DOI: 10.1109/ICITACEE.2017.8257688
2018	Publisher: IEEE
ISBN Information:	Conference Location: Semarang,

Contents

Indonesia

I. Introduction

Lightning is a natural phenomenon which occurs stepping electric charge between the clouds with the earth. If the charge in the cloud grows, the greater the induced charge so that the potential difference between the clouds with Signetartho Constructioner Resadingater. The incident was followed by the release of the electron charge in the form of tongues of lightning that came down from the clouds and also up from the earth. [1], [6]

Authors	~
Figures	~
References	~
Keywords	~
Metrics	~

IEEE Personal Account	Purchase Details	Profile Information	Need Help?	Foll	ow	
CHANGE USERNAME/PASSWORD	PAYMENT OPTIONS	COMMUNICATIONS PREFERENCES	US & CANADA: +1 800 678 4333	f	in	y
	VIEW PURCHASED DOCUMENTS	PROFESSION AND EDUCATION	WORLDWIDE: +1 732 981 0060			
		TECHNICAL INTERESTS	CONTACT & SUPPORT			

About IEEE Xplore | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2020 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.

IEEE websites place cookies on your device to give you the best user experience. By using our websites, you agree to the placement of these cookies. To learn more, read our Privacy Policy.

IEEE.org IEEE <i>Xplore</i> Digi Browse Conferences > 2017 4th Interna	ital Library IEEE-SA IEEE : My Settings	Spectrum More Sites	ı In	Car	t Create Account Personal Sign In
Browse Conferences > 2017 4th Interna	My Settings	Institutional Sigr	n In		
Browse Conferences > 2017 4th Interna	My Settings				
Conferences > 2017 4th Interna		Get Help	Subscribe		
A second data to a la se	national Confer				
A multiple class	sifiers broadcast	protocol for VA			
Publisher: IEEE	Cite This Cite This	🖾 PDF			
3 Author(s) Sami S. Alt	lwakeel ; Hesham A. Altwaijry ;	Agung B. Prasetijo View A	All Authors		
			Export t)	
74 Full Text Views			Collabratec	Alerts Manage Content Alerts Add to Citation Alerts	QGrid: Q-learning based routing protocol for vehicular ad hoc networks 2014 IEEE 33rd International Performance Computing and Communications Conference (IPCCC) Published: 2014 Impact of concurrent communications in geographical broadcasting protocols for vehicular ad hoc networks 2017 IEEE 9th Latin-American Conference on Communications (LATINCOM) Published: 2017
Abstract					View More
Document Sections	bestract: Many types of artific haking purposes. In VANET b	ial intelligent machines ha roadcast protocols, vehicle	ave been used for de es must decide the r	cision eceived	Top Organizations with Patents on Technologies Mentioned in This Article
Schemes III. Experiment Details AI IV. Experiment on pu Multiple- or	Metadata bstract: lany types of artificial intellige urposes. In VANET broadcast re to be rebroadcast or not S	nt machines have been u t protocols, vehicles must	sed for decision mak decide the received	ing messages	ORGANIZATION 3
Classifiers se Broadcast m Protocol re V. Results and th Discussions re	ender-receiver speed differen novement direction are import elationships of attributes to the ne use of a classifier-based an elationships of all the incorpor	ce, number of neighboring ant measures to take the broadcast decision canr tificial intelligence may ap ated attributes to such a c	g vehicles, as well as broadcast decision. not be mathematicall oproximately predict decision. As the deci	s vehicle's As the y defined, the sion is	
ba Authors ac	ased on prediction, the use of ccuracy. Therefore, this research	f multiple classifiers in dec irch employs a combined-	cision making may in classifiers at an abs	crease tract level	
Figures pe	o provide firmer broadcast dee erformance of our combined i	cisions on VANET. Our res multiple-classifiers outperf	search results justify formed a single-class	that the sifier	
References re	eachability compared to that c ombined multi-classifiers sch	of the efficient counter-base of the efficient counter-base ome also improves the same	ed scheme (ECS). The scheme (ECS) is a scheme (ECS) is a scheme (ECS).	≥.5% m The ries bv	
Keywords 38	8.9%.			~ ~ ~ ~ j	
	ublished in: 2017 4th Interne	ational Conference on Info	rmation Technology	Computer	

your agree to the placement of these cookies. To learn more, read our Privacy Policy.

cation

A multiple classifiers of	oadcast protocol for VANET - TEEE Conference
Date of Conference: 18-19 Oct. 2017	INSPEC Accession Number: 17503403
Date Added to IEEE <i>Xplore</i> : 15 January 2018	DOI: 10.1109/ICITACEE.2017.8257671
	Publisher: IEEE
ISBN Information:	Conference Location: Semarang, Indonesia
Sami S. Alwakeel	
Department of Computer Engineering, CCI Saudi Arabia	IS - King Saud University, Riyadh, Kingdom of
Hesham A. Altwaijry	
Department of Computer Engineering, CCI Saudi Arabia	IS - King Saud University, Riyadh, Kingdom of
Agung B. Prasetijo Department of Computer Engineering, Fac Semarang, Indonesia	ulty of Engineering - Diponegoro University,
i≣ c	contents
broadcast (e.g. distance-based broadcast solutions have used nostly only a few at global), such as the use of series and the message duplicates received, or even or reduce the number of nodes/vehicles that mitigate the broadcast-storm problem (the redundancy, contention and collision) [1]	st) However, most of the ttributes (whether local or Refer astance, humber of nly employing probability to at rebroadcast messages to ne massive message –[4].
Authors	^
Sami S. Alwakeel	
Department of Computer Engineering, Co Kingdom of Saudi Arabia	CIS - King Saud University, Riyadh,
Hesham A. Altwaijry	CIS - King Soud University Divedh
Kingdom of Saudi Arabia	GIƏ - King Saud University, Kiyadn,
Agung B. Prasetijo Department of Computer Engineering, Fa University, Semarang, Indonesia	aculty of Engineering - Diponegoro
Figures	~
References	~

IEEE websites place cookies on your device to give you the best user experience. By using our websites, Metrics you agree to the placement of these cookies. To learn more, read our Privacy Policy.

28/2020 A bi-di	irectional boost converter-base	d non-isolated DC-DC trar	nsformer with modular	solid-state switc	hes for medium-/high-voltage DC gr.
IEEE.org IEEE <i>Xplore</i>	Digital Library IEEE-SA IEE	E Spectrum More Sites		Cart	Create Account Personal Sign In
		Institutional Si	ign In		
Browse	My Settings	Get Help	Subscribe		
Conferences > 2017 4th		ar-based non-is	olated DC-DC		
transformer	with modular solic	-state switches	for medium.	/high-	
voltage DC g	rids	-State Switches	s for meanant	^{mgn-}	
Publisher: IEEE	Cite This Cite Thi	is PDF			
3 Author(s) Ahme	d Elserougi ; Ahmed Massoud ; S	Shehab Ahmed View All A	uthors	- -	
2 282 Paper Full Citations Text View	vs		Export t	Manage Content Alerts Add to Citation Alerts	Discussions on control loop design in average current mode control [PWM DC/DC power convertors] Conference Record of the 2000 IEEE Industry Applications Conference. Thirty- Fifth IAS Annual Meeting and World Conference on Industrial Applications of Electrical Energy (Cat. No.00CH37129) Published: 2000 Power grid configuration influence on the geomagnetically induced currents value in power transformers 2017 International Conference on Industrial Engineering, Applications and Manufacturing (ICIEAM) Published: 2017
Abstract	Dowol				View More
Document Sections	PDF				Top Organizations with Patents
I. Introduction					on Technologies Mentioned in This Article
II. The Proposed Bi- Directional DC-DC Transformer	Abstract: In this paper, a bi which can be used for conne grids View more	-directional non-isolated do ecting different dc voltage	c-dc transformer is pro levels in medium-/high	posed, i-voltage dc	ORGANIZATION 4
III. Design of the Proposed DC-DC Transformer	Metadata Abstract: In this paper, a bi-directiona	I non-isolated dc-dc transf	ormer is proposed, wh	ich can be	ORGANIZATION 2
IV. Simulation	used for connecting differen	t dc voltage levels in medi	um-/high-voltage dc gr	ids. The	\bigcirc
V. Conclusion	but with modular solid-state connected Insulated Gate B	switches to avoid the com ipolar Transistors (IGBTs)	plexity of employing set to meet the high-volta-	eries- ge	
Authors	requirement. The modular s module consists of Half-Brid	olid-state switch consists o	of cascaded modules, along with clamping IG	where each BT. Small	
Figures	module capacitance is required in the module voltage, r	red in the proposed archite not to store the energy to b	ecture as it is used typ be delivered to the load	ically to . This	
References	IGBTs ensure a successful of	or the dc-dc transformer.	on the other hand, cla apacitors' voltages with	imping out the	
Citations	need for voltage or current r architecture is presented alc	neasurements. A detailed ong with its operational mo	illustration for the prop odes and controller. Sin	nulation	
	manulta fam a ONANA AO 13 UOF	When a share - f			

IEEE_{Methes}ites place cookies on your device to give you the best user experience. By using our websites, you agree to the placement of these cookies. To learn more, read our Privacy Policy. Computer, and Electrical Engineering (ICITACEE)

Accept & Close

Mara Lika Thia

4/28/2020 A bi-directional boost converter-based non-isolated DC-DC transformer with modular solid-state switches for medium-/high-voltage DC gr...

IVIOLE LIKE THIS

Date of Conference: 18-19 Oct. 2017	INSPEC Accession Number: 17503387
Date Added to IEEE Xplore: 15 January	DOI: 10.1109/ICITACEE.2017.8257675
ISBN Information	Publisher: IEEE
	Conference Location: Semarang, Indonesia
Ahmed Elserougi Electrical Dept., Qatar University, Doha, Qa	atar
Ahmed Massoud Electrical Dept., Qatar University, Doha, Qa	atar
Shehab Ahmed Electrical Dept., Texas A&M University at Q	atar, Doha, Qatar
i≣ c	ontents
I. Introduction The dc-dc transformer is an essential cor	mponent in medium-/high-
I. Introduction The dc-dc transformer is an essential convoltage dc grids for connecting two differ dc-dc transformer can be the solution isolate between the high- and low-voltage	mponent in medium-/high- ent dc voltage levels [1]. The solated [2]
I. Introduction The dc-dc transformer is an essential convoltage dc grids for connecting two differences of the distribution of the distributicati	mponent in medium-/high- ent dc voltage ievels [1]. The solated [3]hd5] and non-isolated transformer is employed to e sides.
I. Introduction The dc-dc transformer is an essential corvoltage dc grids for connecting two different dc-dc transformer can beschassified(i)(high) [6]–[10]. In the isolated type, an isolation isolate between the high- and low-voltage Authors Ahmed Elserougi Electrical Dept., Qatar University, Doha, C Ahmed Massoud	mponent in medium-/high- ent dc voltage levels [1]. The adated [2]. The adated [2]. The adated [2]. The adated [2]. The adated [2]. The adated [2]. The adated [2]. The adated [2]. The adated [2]. The adated
I. Introduction The dc-dc transformer is an essential cor voltage dc grids for connecting two differ dc-dc transformer can besides if ediates [6]–[10]. In the isolated type, an isolation isolate between the high- and low-voltage Authors Ahmed Elserougi Electrical Dept., Qatar University, Doha, C Electrical Dept., Qatar University, Doha, C	mponent in medium-/high- ent dc voltage levels [1]. The adated [3]hg[5] and non-isolated transformer is employed to e sides.
I. Introduction The dc-dc transformer is an essential corvoltage dc grids for connecting two different dc-dc transformer can beside spirited betwire [6]–[10]. In the isolated type, an isolation isolate between the high- and low-voltage Authors Ahmed Elserougi Electrical Dept., Qatar University, Doha, C Shehab Ahmed Electrical Dept., Texas A&M University at	mponent in medium-/high- ent dc voltage levels [1]. The adated [2]hd[5] and non-isolated transformer is employed to e sides. Qatar Qatar Qatar, Doha, Qatar
I. Introduction The dc-dc transformer is an essential corvoltage dc grids for connecting two differences dc-dc transformer can be subject in the solated type, an isolation isolate between the high- and low-voltage Authors Ahmed Elserougi Electrical Dept., Qatar University, Doha, C Shehab Ahmed Electrical Dept., Texas A&M University at Figures	mponent in medium-/high- ent dc voltage levels [1]. The adated [3]hg[5] and non-isolated transformer is employed to e sides. Qatar Qatar Qatar, Doha, Qatar
I. Introduction The dc-dc transformer is an essential corvoltage dc grids for connecting two different dc-dc transformer can beschassified(i)(high) [6]–[10]. In the isolated type, an isolation isolate between the high- and low-voltage Authors Ahmed Elserougi) Electrical Dept., Qatar University, Doha, C Ahmed Massoud Electrical Dept., Qatar University, Doha, C Shehab Ahmed Electrical Dept., Texas A&M University at Figures References	mponent in medium-/high- ent dc voltage levels [1]. The adated [3hd5] and non-isolated transformer is employed to e sides. Qatar Qatar Qatar Doha, Qatar
I. Introduction The dc-dc transformer is an essential corvoltage dc grids for connecting two differends dc-dc transformer can be solars if ied (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	mponent in medium-/high- ent dc voltage levels [1]. The adated [2]hd5] and non-isolated transformer is employed to e sides. Qatar Qatar Qatar, Doha, Qatar
I. Introduction The dc-dc transformer is an essential corvoltage dc grids for connecting two differends dc-dc transformer can beside spirified (16) (16) (16) (16) (16) (16) (16) (16)	mponent in medium-/high- ent dc voltage levels [1]. The adated [2]hd5] and non-isolated transformer is employed to e sides. Qatar Qatar Qatar, Doha, Qatar)

IEEE Personal Account	Purchase Details	Profile Information	Need Help?	Follow
IEEE websites place cookies	on WEN LEVICENS give you the	, FEREFERIO AND FOR	ng our websites,	<mark>f in</mark> ¥
you agree to the placement o	of the Cookies Poolewin Thore		Worldwide: +1 732 981 0678 4333	& Close

/28/2020 Enhan	cing the DC voltage utilization of twelve Digital Library IEEE-SA IEEE Spectru	- switch voltage source um More Sites	inverter feeding	symmetrical/a	symmetrical nine-phase loads - IEEE… rt Create Account Personal Sign In
		Institutional Sign In			
Browse	My Settings	Get Help	Subscribe		
Conferences > 2017 4th Enhancing th Source invert	International Confer Te DC voltage utilizatior ter feeding symmetrical	n of twelve- sy l/asymmetrica	witch volta al nine-pha	age ase	More Like This A novel method for estimation of IGBT switching losses in voltage source convertors through EMT simulations 2016 IEEE 2nd Annual Southern Power Electronics Conference (SPEC) Published: 2016 A new space vector modulation strategy for
Publisher: IEEE 4 Author(s) Ahme	Cite This Cite This	PDF	<mark>ed</mark> View All Aut	hors	common mode voltage reduction [in PWM invertors] PESC97. Record 28th Annual IEEE Power Electronics Specialists Conference. Formerly Power Conditioning Specialists Conference 1970-71. Power Processing and Electronic Specialists Conference 1972 Published: 1997
			Export to	0	View More
82 Full Text Views			Collabratec	Alerts Manage Content Alerts Add to Citation Alerts	Top Organizations with Patents on Technologies Mentioned in This Article ORGANIZATION 4 ORGANIZATION 3 ORGANIZATION 2 ORGANIZATION 1
Abstract Document Sections	Downl PDF				
 Introduction Basics of the Twelve-Switch Nine-Phase Inverter Enhancing the AC Output Voltage for TSNPI-Fed Symmetrical and Asymmetrical Nine-Phase Loads Simulation Experimental Validation 	Abstract: Twelve-Switch Nine-Phase independent three-phase loads or nin provides dc-ac conver View more Metadata Abstract: Twelve-Switch Nine-Phase Inverter (T three-phase loads or nine-phase load conversion with a reduced number of feed the load instead of employing co with eighteen switches. In this paper, extracted to enable operating with en feeding symmetrical/asymmetrical nin results are presented to validate the p Published in: 2017 4th International and Electrical Engineering (ICITACEE	e Inverter (TSNPI) can ne-phase load such as TSNPI) can be used to such as nine-phase n switches, as only twel onventional nine- phase optimum sinusoidal m hanced utilization of th ne-phase loads. Simula proposed approach. Conference on Inform E)	be used to feed to nine-phase mach feed three indep nachines. It provi- ve switches are of e voltage source odulating signals e dc input voltag tion and experim ation Technology	three hines. It bendent des dc-ac employed to inverter are e while hental	
Authors	Date of Conference: 18-19 Oct. 201	7 INSPEC Acces	sion Number: 1	7503393	
Figures IEEE websites pla	Date Added to IEEE Xplore: 15 Jan cc20obkies on your device to give placement of these cookies. To lear	uary DOI: 10.1109/i0 you the best user e: Publisher: IEE m more, read our P	chacee.2017.8 cperience. By u E fivacy Policy.	257676 J <mark>sing our we</mark> l	osites, Accept & Close

4/28/2

Matrica	Conference Location: Semarang, Indonesia		
vietrics	Ahmed Elserougi		
e Like This	Electrical Dept., Qatar University, Doha, Qatar		
	Ibrahim Abdelsalam Electrical and Control Department, Arab Academy for Science, Technology & Marit Transport, Cairo, Egypt	time	
	Ahmed Massoud Electrical Dept., Qatar University, Doha, Qatar		
	Shehab Ahmed Electrical Dept., Texas A&M University at Qatar, Doha, Qatar		
	E Contents		
	I. Introduction VOLTAGE Source Inverters (VSIs) are commonly used in different applications such as motor drives and renewable energy systems [1]– [6]. Conventionally, multistans VStommeistres aggregation number of legs, which equals the number of involved phases, where each leg consists of two Insulated Gate Bipolar Transistors (IGBTs) as shown in Fig. 1a.		
	Authors	^	
	Ahmed Elserougi) Electrical Dept., Qatar University, Doha, Qatar		
	(Ibrahim Abdelsalam) (Electrical and Control Department, Arab Academy for Science, Technology & (Maritime Transport, Cairo, Egypt)		
	Ahmed Massoud) Electrical Dept., Qatar University, Doha, Qatar)		
	Shehab Ahmed) Electrical Dept., Texas A&M University at Qatar, Doha, Qatar)		
	Figures	~	
	References	~	
	Keywords	~	

IEEE Personal Account Profile Information CHANGE USERNAME/PASSWORD PAYMENT OPTIONS IEEE websites place cookies on your device to give you the best user experience. By using our websites, f in WORLDWIDE: +1 732 981 AGe Pt & Close you agree to the placement of these cookies. To learn more, read our privacy Policy.

4/28/2020 Load s	hedding and forecasting in distribution systems with PV-based distributed g	generation and ele	ctric vehicles - IEEE Conference Publ
IEEE.org IEEE Xplore	Digital Library IEEE-SA IEEE Spectrum More Sites	Ca	rt Create Account Personal Sign In
	Institutional Sign In		
Browse	My Settings Get Help Subscrib	De	
Conferences > 2017 4th I	nternational Confer To and forecasting in distribution systems v	vith PV-	
based distrib	uted generation and electric vehicles		
Publisher: IEEE	Cite This Cite This DDF		
2 201 Paper Full Citations Text View	Ex Collabr	Add to Citation Alerts	More Like This A Smart Residential Microgrid Based on Renewable Energy Sources with Integrated Electric Vehicle Charging Station 2018 International Symposium on Fundamentals of Electrical Engineering (ISFEE) Published: 2018 A model for the efficient use of electricity produced from renewable energy sources for electric vehicle charging 2013 4th International Youth Conference on
Abstract Document Sections	Downl PDF		Top Organizations with Patents
I. Introduction II. Methodology III. Load Analysis	Abstract: The aim of the paper is to investigate the load shedding and for distribution networks with PV-based Distributed Generation (DG) and Plu Vehicles View more	OR Technologies Mentioned in This Article ORGANIZATION 4	
IV. Battery Energy Storage System (BESS)V. PV Effect Over Load Curve	Metadata Abstract: The aim of the paper is to investigate the load shedding and forecasting networks with PV-based Distributed Generation (DG) and Plug-in Electric (PEVs). Advancement in technology, especially in the transportation sect	ORGANIZATION 2	
Authors	minimum effect on the grid, and to meet the necessary energy demand, in energy solutions are a promising candidate. To present grid-friendly solutions		
Figures	load) with a designed Energy Storage System (ESS) for load shedding.	Then a PV	
References Citations Keywords	system is employed to support the ESS, therefore reducing its cost and s forecasting of the demand is conducted in order to meet the need within Simulation results are presented for different scenarios. The results obta forecast show potentials, and the analysis of the ESS shows a steady loa The solution provided can be further researched for analyzing other pros problems	size. At last, a short term. iined from the ad demand. spective	
Metrics			

and Electrical Engineering (ICITACEE) IEEE websites place cookies on your device to give you the best user experience. By using our websites, you agree to the placement of these cookies. To learn more, read our Privacy Policy.

Accept & Close

you agree to the placement of these cookies. To learn more, read our Privacy Policy. Date of Conference: 18-19 Oct. 2017 INSPEC Accession Number: 17503383 4/28/2020

2020 Load she	edding and forecasting in distribution system	ns with PV-based distributed generation	on and electric vehicles - IEEE C	onference Publ
	Date Added to IEEE <i>Xplore</i> : 15 January 2018	DOI: 10.1109/ICITACEE.2017.82576	578	
		Publisher: IEEE		
		Conference Location: Semarang, Indonesia		
	Anas Tahir Department of Electrical Engineering, Qata	ır University, Doha, Qatar		
	Ahmed Massoud Department of Electrical Engineering, Qata	ır University, Doha, Qatar		
	Contents			
	I. Introduction Development of Distributed Generation (Electric Vehicles (EVs) have contributed configuration of the traditional distribution active distribution network. Plug-in EV (F capability applies a heavy loading to the Moreover, varying the charging of the PE profile across the distribution system [2]. Sign in to Contri to integrate a centralized charging station management scheme, into the power syst On the other hand, decentralized battery therefore a centralized system makes it of concept. The addition of several DGs match challenging as well, therefore several type this issue in the literature [5]–[7].			
	Authors		^	
	Department of Electrical Engineering, Qa	tar University, Doha, Qatar		
	Ahmed Massoud Department of Electrical Engineering, Qa	tar University, Doha, Qatar		
	Figures		<u>~</u>	
	Citations		<u>~</u>	
	Keywords		~	
	Metrics		~	
IEEE Personal Acc	ount Purchase Details	Profile Information	Need Help?	Follow
CHANGE USERNAME/PA	SSWORD PAYMENT OPTIONS	COMMUNICATIONS PREFERENCES	US & CANADA: +1 800 678 4333	f in У

IEEE websites place cookies on your device to give you the best-user experience. By using our websites port Accept & Close you agree to the placement of these cookies. To learn more, read our Privacy Policy.