GTSD2018 PROGRAM OUTLINE

IMPORTANT INFORMATION FOR ALL PARTICIPANTS

- Please wear your GTSD2018 Conference name tag at all times to gain admission to presentation in break-out rooms.
- Name tags and tickets are required for Conference Gala Banquet.
- If you need any information about the conference, please ask the student helpers or committee members for assistance.

FRIDAY, NOVEMBER 23rd 2018

07:30am - 05:30pm				
	Venue: Conference Foyer, 6 th Floor, T	he Center Building		
08:30am - 09:10am	Opening Ceremony			
	Venue: Room No. A1-602, 6 th Floor, The Center Building			
	Introduction			
	Opening Welcome			
09:10am - 9:40am	Keynote Address 1			
	Keynote Address 2			
10:10am - 10:30am	Morning Tea break			
	Venue: Conference Foyer, 6 th Floor, Th	ne Center Building		
10:30am - 12:00am	Breakout session No.1 (BS-1)	Breakout session No.2 (BS-2)		
	Topic: Special Session (Student	Topic: Renewable Energy and		
	authors)	Power System Engineering		
	Venue: Room A1-602	Venue: Room A1-1207		
	Breakout session No.3 (BS-3)	Breakout session No.4 (BS-4)		
	Topic: Automotive and Mechanical	Topic: Mechatronics Engineering		
	Engineering	Venue: Room A1-1203		
	Venue: Room A1-1202			
	Breakout session No.5 (BS-5)	Breakout session No.6 (BS-6)		
	Topic: Applied Physics and Thermal	•		
	Engineering	Educational Development		
	Venue: Room A1-1204	Venue: Room A1-601B		
	Breakout session No.7 (BS-7)	Breakout session No.8 (BS-8)		
	Topic: Chemical and Environmental	Topic: Electronics Engineering		
	Engineering	Venue: Room A1-1206		
	Venue: Room A1-1205			
12:00am - 01:30am				
	Venue: Conference Foyer, 6 th Floor, Th	ne Center Building		
01:30pm - 03:30pm	Breakout sessions (BS-1 to BS-8)			
	Topics and Venues: Same as morning			
03:30pm - 03:50pm	Afternoon Tea break			
	Venue: At session sites, respectively			
03:50pm - 05:30pm	Breakout sessions (BS-1 to BS-6)			
	Topics and Venues: Same as morning			
06:00pm - 08:00pm	Gala dinner			
	Venue: Kim Dung Restaurant, No. 02, Dang Van Bi Street, Thu Duc District,			
	HCMC			

SATURDAY, NOVEMBER 24th 2018

08:00am - 08:30am				
00.00am - 00.00am	Venue: Conference Foyer, 6 th Floor, The Center Building			
08:30am - 08:40am	Opening Welcome			
00.30aiii - 00.40aiii	Representative of Board of President, HCMUTE			
	Venue: Room No. A1-602, 6 th Floor, The Center Building			
08:40am - 09:05am	Keynote Address 3			
00.40aiii - 09.03aiii	Venue: Room No. A1-602, 6 th Floor, The Center Building			
09:05am - 09:30am	<u> </u>			
09:05am - 09:30am	Keynote Address 4 Venue: Room No. A1-602, 6 th Floor, The Center Building			
09:30am - 09:55am		le Certier Building		
09:30am - 09:55am	Keynote Address 5			
09:55am - 10:15am	Venue: Room No. A1-602, 6 th Floor, The Center Building			
09:55am - 10:15am	Morning Tea break	be Center Duilding		
40:45am 40:45am	Venue: Conference Foyer, 6 th Floor, The Center Building			
10:15am - 12:15pm	Breakout session No.2 (BS-2)	Breakout session No.3 (BS-3)		
	Topic: Renewable Energy and	Topic: Automotive and Mechanical		
	Power System Engineering Venue: Room A1-1207	Engineering Venue: Room A1-1202		
	Breakout session No.9A (BS-9A)	Breakout session No.9B (BS-9B)		
	Topic: Electrical Engineering	Topic: Electrical Engineering		
	Venue: Room A1-1203	Venue: Room A1-1204		
	Breakout session No.10A (BS-10A)	Breakout session No.10B (BS-10B)		
	Topic: Applied Science and	Topic: Applied Science and		
	Information Engineering	Information Engineering		
	Venue: Room A1-1205	Venue: Room A1-1206		
	Breakout session No.11A (BS-11A)	Breakout session No.11B (BS-11B)		
	Topic: Civil Engineering	Topic: Civil Engineering		
	Venue: Room A1-602	Venue: Room A1-601B		
12:15pm - 01:30pm	Lunch			
	Venue: Conference Foyer, 6 th Floor, The Center Building			

DETAILED CONFERENCE PROGRAM

FRIDAY, NOVEMBER 23rd 2018

07:30am Registration

Venue: Conference Foyer, 6th Floor, The Center Building

08:30am Opening Ceremony

Venue: Room No. A1-602, 6th Floor, The Center Building

Introduction

Opening Welcome

Prof. Do Van Dung, President, HCMUTE, Vietnam

Prof. Yan-Kuin Su, Former President of Kun Shan University, Taiwan

Guests of Honors

Representative of Ministry of Education and Training, Vietnam

Vote of Thanks

Assoc. Prof. Dr. Ngo Van Thuyen, University Council Chairman, HCMUTE, Vietnam

09:10am Keynote Address

Venue: Room No. A1-602, 6th Floor, The Center Building

Chair: Assoc. Prof. Dr. Le Hieu Giang, HCMUTE, Vietnam

Keynote Address 1:

Taiwan Energy Transition - The Challenges and Opportunities

Prof. Chang-Ren Chen

Department of Mechanical Engineering, Kun Shan University, Taiwan

Keynote Address 2:

Saliency-based Identification of Debris Flows from Aerial Photographs

Prof. Kai-Yew Lum

Department of Electrical Engineering, National Chi Nan University, Taiwan

10:10am Morning Tea

Venue: Conference Foyer, 6th Floor, The Center Building

10:30am - 05:30pm Paper Presentations - Breakout Sessions

(12:00am - 01:30pm Lunch break)

(03:30pm - 03:50pm Afternoon Tea break)

(06:00pm - 08:00pm Gala dinner)

SATURDAY, NOVEMBER 24th 2018

08:00am Registration

Venue: Conference Foyer, 6th Floor, The Center Building

08:30am Opening Welcome

Venue: Room No. A1-602, 6th Floor, The Center Building

08:40am Keynote Address

Venue: Room No. A1-602, 6th Floor, The Center Building

Chair: Assoc. Prof. Dr. Hoang An Quoc, HCMUTE, Vietnam

Keynote Address 3:

Most Sustainable, Lowest Cost and Highly Efficient – First Solar's Rapid

Innovation Approach in Thin-Film Photovoltaics

Dipl.-Ing. Andreas Wade (VDI, VDE)

Deputy Operating Agent IEA PVPS Task 12,

President International Thin-Film Solar Industry Association, PVthin

Keynote Address 4:

Measurement of diesel emissions on real roads and construction fields by pems

Prof. Jau Huai Lu

Department of Mechanical Engineering, National Chung Hsing University, Taiwan

Keynote Address 5:

iCloud-Based Electrical Distribution Controlling System with "ABB Ability" for

Power Management

Mr. Cao Phu Hai

Product Manager of Medium – Low Voltage Products, ABB in Vietnam

09:55am Morning Tea

Venue: Conference Foyer, 6th Floor, The Center Building

10:15am - 12:15pm Paper Presentations - Breakout Sessions

(12:15pm - 01:30pm Lunch)

SESSION CHAIRS

FRIDAY, NOVEMBER 23rd 2018

	10:30am –	- 12:00am	Prof. Dr. Wen-June Wang, Taiwan
			Assoc. Prof. Dr. Nguyen Hoai Son, Vietnam
Breakout session No.1 (BS-1)			Assoc. Prof. Dr. Do Thanh Trung, Vietnam
Topic: Special Session (Student	01:30pm –	- 03:30pm	Prof. Dr. Wen-June Wang, Taiwan
authors)			Assoc. Prof. Dr. Le Chi Kien, Vietnam
Venue: Room A1-602			Assoc. Prof. Dr. Do Thanh Trung, Vietnam
	03:50pm –	- 05:30pm	Prof. Dr. Wen-June Wang, Taiwan
			Assoc. Prof. Dr. Le Chi Kien, Vietnam
			Assoc. Prof. Dr. Do Thanh Trung, Vietnam
Breakout session No.2 (BS-2)	10:30am –	- 12:00am	Prof. Dr. Nob. Harada, Japan
Topic: Renewable Energy and			Dr. Le My Ha, Vietnam
Power System Engineering	01:30pm –	- 03:30pm	Prof. Dr. Jeihoon Baek, Korea
Venue: Room A1-1207			Assoc. Prof. Dr. Quyen Huy Anh, Vietnam
venue. Noom A1-1201	03:50pm -	- 05:30pm	Assoc. Prof. Dr. Dinh Thanh Viet, Vietnam
			Assoc. Prof. Dr. Truong Viet Anh, Vietnam
	10:30am –	- 12:00am	Dr. Nguyen Van Trang, Vietnam
Breakout session No.3 (BS-3)			Dr. Le Thanh Phuc, Vietnam
Topic: Automotive and Mechanical	01:30pm –	- 03:30pm	Prof. Dr. Chang-Ren Chen, Taiwan
Engineering			Assoc. Prof. Dr. Pham Huy Hoang, Vietnam
Venue: Room A1-1202	03:50pm –	- 05:30pm	Assoc. Prof. Dr. Atsushi Mitani, Japan
			Assoc. Prof. Dr. Tran Ngoc Dam, Vietnam
	10:30am –	- 12:00am	Assoc. Prof. Dr. Nguyen Truong Thinh, Vietnam
Breakout session No.4 (BS-4)			Dr. Nguyen Vu Lan, Vietnam
Topic: Mechatronics Engineering	01:30pm –	- 03:30pm	Prof. Dr. Jau-Huai Lu, Taiwan
Venue: Room A1-1203			Dr. Vu Quang Huy, Vietnam
	03:50pm –	- 05:30pm	Assoc. Prof. Dr. Nguyen Ngoc Phuong, Vietnam
		•	Assoc. Prof. Dr. Truong N. Luan Vu, Vietnam
Deceleration No. 5 (DO. 5)	10:30am –	- 12:00am	Prof. Dr. Yueh-Heng Li, Taiwan
Breakout session No.5 (BS-5)			Dr. Le Minh Nhut, Vietnam
Topic: Applied Physics and	01:30pm –	- 03:30pm	Assoc. Prof. Dr. Le Anh Duc, Vietnam
Thermal Engineering Venue: Room A1-1204			Dr. Nguyen Xuan Vien, Vietnam
venue: Room A1-1204	03:50pm –	- 05:30pm	Prof. Dr. Jau-Huai Lu, Taiwan
			Assoc. Prof. Dr. Dang Thanh Trung, Vietnam
	10:30am –	- 12:00am	Dr. Dang Quang Vang, Vietnam
Breakout session No.6 (BS-6)			Dr. Nguyen Quoc Khanh, Vietnam
Topic: Sustainable Economics and	01:30pm –	- 03:30pm	Dr. Nguyen Thi Thanh Van, Vietnam
Educational Development			Dr. Nguyen Khac Hieu, Vietnam
Venue: Room A1-601B	03:50pm -	- 05:30pm	Assoc. Prof. Dr. Ngo Anh Tuan, Vietnam
			Assoc. Prof. Dr. Bui Van Hong, Vietnam
	10:30am –	- 12:00am	Prof. Dr. Long-Full Lin, Taiwan
Breakout session No.7 (BS-7)			Dr. Nguyen Thai Anh, Vietnam
Topic: Chemical and	01:30pm –	- 03:30pm	Assoc. Prof. Dr. Nguyen Van Suc, Vietnam
Environmental Engineering	•	•	Dr. Trinh Khanh Son, Vietnam
Venue: Room A1-1205	03:50pm –	- 05:30pm	Dr. Vo Thi Nga, Vietnam
	•	•	Dr. Nguyen Tan Dung, Vietnam
	10:30am -	- 12:00am	Prof. Dr. Kai-Yew Lum, Taiwan
Burgland and L. N. C. (D. C.)			Assoc. Prof. Dr. Tran Thu Ha, Vietnam
Breakout session No.8 (BS-8)	01:30pm -	- 03:30pm	Prof. Dr. Kai-Yew Lum, Taiwan
- · - · · - · ·	- P	- 1-	
Topic: Electronics Engineering			Dr. Vo Minh Huan, Vietnam
Topic: Electronics Engineering Venue: Room A1-1206	03:50pm –	- 05:30pm	Assoc. Prof. Dr. Nguyen Minh Tam, Vietnam

SATURDAY, NOVEMBER 24th 2018

SATORDAT/ NOVEMBER 24	2010		
Breakout session No.2 (BS-2)	10:15am –	12:15pm	Assoc. Prof. Dr. Vo Viet Cuong, Vietnam
Topic: Renewable Energy and			Assoc. Prof. Dr. Truong Dinh Nhon, Vietnam
Power System Engineering			
Venue: Room A1-1207			
Breakout session No.3 (BS-3)	10:15am –	12:15pm	Assoc. Prof. Dr. Dang Thien Ngon, Vietnam
Topic: Automotive and Mechanical			Assoc. Prof. Dr. Pham Huy Tuan, Vietnam
Engineering			
Venue: Room A1-1202			
Breakout session No.9A (BS-9A)	10:15am –	12:15pm	Prof. Dr. Hojin Jeong, Korea
Topic: Electrical Engineering			Assoc. Prof. Dr. Phan Van Ca, Vietnam
Venue: Room A1-1203			
Breakout session No.9B (BS-9B)	10:15am –	12:15pm	Prof. Dr. Nob. Harada, Japan
Topic: Electrical Engineering			Dr. Quach Thanh Hai, Vietnam
Venue: Room A1-1204			
Breakout session No.10A (BS-10A)	10:15am –	12:15pm	Prof. Dr. Hsuan-Ming Feng, Taiwan
Topic: Applied Science and			Dr. Le Van Vinh, Vietnam
Information Engineering			
Venue: Room A1-1205			
Breakout session No.10B (BS-10B)	10:15am –	12:15pm	Assoc. Prof. Dr. Duong Tuan Anh, Vietnam
Topic: Applied Science and			Dr. Thanatip Chankong, Thailand
Information Engineering			
Venue: Room A1-1206			
Breakout session No.11A (BS-11A)	10:15am –	12:15pm	Assoc. Prof. Dr. Nguyen Trung Kien, Vietnam
Topic: Civil Engineering			Dr. Chau Dinh Thanh, Vietnam
Venue: Room A1-602			
Breakout session No.11B (BS-11B)	10:15am –	12:15pm	Assoc. Prof. Dr. Phan Duc Hung, Vietnam
Topic: Civil Engineering		-	Dr. Tran Vu Tu, Vietnam
Venue: Room A1-601B			

DAY 1 (FRIDAY, NOVEMBER 23rd 2018)

BS-1 Special Session (Student authors, 15 papers)

Venue: Room No. A1-602, 6th Floor, The Center Building

Friday, November 23rd 2018

10:40am - 12:00am

Chair: **Prof. Dr. Wen-June Wang,** National Central University, Taiwan

Assoc. Prof. Dr. Nguyen Hoai Son, Ho Chi Minh City University of Technology and Education, Vietnam **Assoc. Prof. Dr. Do Thanh Trung,** Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 18-Optimal Design of a New Compliant XY Micropositioning Stage for Nanoindentation Tester Using Efficient Approach of Taguchi Method, Response Surface Method and NSGA-II, Minh Phung Dang, Thanh Phong Dao and Hieu Giang Le
- (2) **26-Real-Time Self-Driving Car Navigation Using Deep Neural Network**, Truong-Dong Do, Minh-Thien Duong, Quoc-Vu Dang and My-Ha Le
- (3) **46-Select Location for Load Shedding in Power System**, Trong Nghia Le, Huy Anh Quyen, Thi Thanh Binh Phan, Ngoc Au Nguyen and Tan Phung Trieu
- (4) 58-Risk management: Awareness, Identification and Mitigation in Public Private Partnerships of Technical infrastructure Projects in Da Nang, Thi Trang Pham and Cao Tho Phan

01:30pm - 03:30pm

<u>Chair</u>: Prof. Dr. Wen-June Wang, National Central University, Taiwan

Assoc. Prof. Dr. Le Chi Kien, Ho Chi Minh City University of Technology and Education, Vietnam **Assoc. Prof. Dr. Do Thanh Trung,** Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 60-The Effect of Inlet Design on the Flow Uniformity Inside ESP, Hsin-I Chou, Ching-Ju Liao and Jau-Huai Lu
- (2) **90-Design of Green Agriculture System Using Internet of Things and Image Processing Techniques**, Ha Anh Minh Tran, Ha Quang Thinh Ngo, Thanh Phuong Nguyen and Hung Nguyen
- (3) **94-The Design of an VIAM-USV1000 Unmanned Surface Vehicle for Environmental Monitoring Applications**, Ngoc-Huy Tran, Tu-Cuong Nguyen, Van-Tao Tran, Vuong-Chi Nguyen and Thanh-Nam Nguyen
- (4) **109-Optimization of Heterogeneous Electro Fenton Process for Textile Wastewater Treatment,** Nguyen Duc Dat Duc, Le Thi Thuy An and Nguyen Tan Phong
- (5) 174-Designing Greener Real Time Controllers, Long Quang Tran, PJ Radcliffe and Liuping Wang
- (6) 177-Research on Braking Force Distribution in Regenerative Braking System Apply to Conventional Vehicle, Tung Tuan Duong, Dung Van Do and Thinh Truong Nguyen

03:50pm - 05:30pm

<u>Chair</u>: <u>Prof. Dr. Wen-June Wang, National Central University, Taiwan</u>

Assoc. Prof. Dr. Le Chi Kien, Ho Chi Minh City University of Technology and Education, Vietnam **Assoc. Prof. Dr. Do Thanh Trung,** Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **183-Application of Machine Learning in Forecasting Energy Usage of Building Design**, Truong Xuan Dan and Phan Nguyen Ky Phuc
- (2) **212-Synthesis Silver Nanoparticles via Reduction Reaction by AC Glow Discharge at Atmospheric Pressure with Liquid**, Thai Van Phuoc, Shinnosuke Abe, Kenichiro Kosugi, Nobuo Saito, Kazumasa Takahashi, Toru Sasaki, and Takashi Kikuchi
- (3) **246-Conceptual Design of Massage Robot Using in Healthcare Therapy**, Luong Huu Thanh Nam, Truong Cong Toai, Tran Kim Phong and Nguyen Truong Thinh
- (4) **255-Study on UFLS Strategy in a Stand-alone Power System**, Manh-Tuan Nguyen, Chin-I Wu, Jhih-Yang Siao, Ying-Yi Hong, Yung-Ruei Chang, Yih-Der Lee and Shen-Szu Wang
- (5) **256-Studies on Operation Modes of Diesel Generators in a Standalone Power System**, Chin-I Wu, Jhih-Yang Siao, Manh-Tuan Nguyen, Ying-Yi Hong, Yung-Ruei Chang, Yih-Der Lee and Shen-Szu Wang

BS-2 Renewable Energy and Power System Engineering (15 papers)

Venue: Room No.A1-1207, 12th Floor, The Center Building

Friday, November 23rd 2018

10:40am - 12:00am

<u>Chair</u>: Prof. Dr. Nob. Harada, National Institute of Technology, Kitakyushu College, Japan Dr. Le My Ha, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **5-Observer-Based LQR for Wind Energy Conversion Systems with Single Measurement**, Van-Phong Vu and Ton Duc Do
- (2) **16-Techno-Economic Analysis of Solar Power Plant Project in Binh Thuan, Vietnam**, Phuong Truong Le, Van Dung Nguyen and Phuong Long Le
- (3) 23-Optimal Compensation Using Genetic Algorithm for Voltage Stability Enhancement of a Multi-Machine Power System, Dinh-Nhon Truong, Huu-Phuoc Duong, Tan-Hung Nguyen and Minh-Truong Le Dang
- (4) **37-Comparative Study of Short-term Electric Load Forecasting: Case Study EVNHCMC**, Nguyen Tuan Dung, Tran Thu Ha and Nguyen Thanh Phuong

01:30pm - 03:30pm

<u>Chair</u>: Prof. Dr. Jeihoon Baek, Koreatech University, Korea

Assoc. Prof. Dr. Quyen Huy Anh, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 38-Voltage Stability Enhancement of Bac Lieu Wind Power by ANFIS Controlled Static Var Compensator, V.-T. Bui and D.-N. Truong
- (2) **57-Total Solution of Surge Protection on Power Line for Telecommunication Sites**, Le Quang Trung, and Quyen Huy Anh
- (3) **83-A Research of Acid Gas Condensation in Large-scale Coal-fired Power Plants**, Anh Hoang, Tuyen Nguyen and Mao Nguyen
- (4) 104-Investigating the Design Parameters of Maple seed's Aerodynamic Force by Taguchi Method to Apply to Wind Turbine Blades, Hung-Son Dang and Hoai-Nam Lai
- (5) 112-Impact of Ancillary Services and Its Prices on Large-Scale Solar and Wind Power Penetration in Electricity Market, Dinh Thanh Viet and Phan Cong Tien
- (6) 116-A Study on Design and Simulation of The Point Absorber Wave Energy Converter Using Mechanical PTO, Phan Cong Binh

03:50pm - 05:30pm

Chair: Assoc. Prof. Dr. Dinh Thanh Viet, The University of Da Nang, Vietnam

Assoc. Prof. Dr. Truong Viet Anh, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 129-Wavelet-Based Fuzzy Logics for Recognition of Faults at Nha Be Power Substation of the Vietnam Power System, Bon Nhan Nguyen, Thanh Phan Nguyen, Trieu Ngoc Ton, Khanh Van Nguyen, Toan Duc Nguyen and Vang Quoc Le
- (2) **131-A Short-Term Wind Power Forecasting Tool for Vietnamese Wind Farms and Electricity Market,** Dinh Thanh Viet, Vo Van Phuong, Minh Quan Duong, Alexander Kies, Bruno U. Schyska and Yuan Kang Wu
- (3) **136-Renewable Energy System Using Weather Data for Optimal Scheduling**, Duy Tan Nguyen and Duy Anh Nguyen
- (4) 144-A Cost-Optimal Pathway to Integrate Renewable Energy into the Future Vietnamese Power System,
 Dinh Thanh Viet, Vo Van Phuong, Minh Quan Duong, Ma Phuoc Khanh, Alexander Kies and Bruno Schyska
- (5) 145-Study of FACTS Device Applications for the 220kV Southwest Region of the Vietnam Power System, Bon Nhan Nguyen, Lam Thanh Le, Quyen Cao Le, Thai Hong Pham, Chiem Tan Nguyen and Hoang Trong Nguyen

BS-3 Automotive and Mechanical Engineering (15 papers)

Venue: Room No.A1-1202, 12th Floor, The Center Building Friday, November 23rd 2018

10:40am - 12:00am

<u>Chair</u>: **Dr. Nguyen Van Trang,** Ho Chi Minh City University of Technology and Education, Vietnam **Dr. Le Thanh Phuc**, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **86-Estimation of the Accumulated Energy in the Hybrid Ignition System**, Do Quoc Am, Do Van Dung and Nguyen Tan Ngoc
- (2) **252-Vehicle Frontal Impact to Pole Barrier Simulation Using Computer Finite Element Model**, Luu Nguyen Phu Thuong
- (3) 254-The Affect of Air Gap Between ABS Sensor and Brake Disc to the Anti lock Braking System Efficiency, Le Khac Binh
- (4) **263- Evaluation of RV165-2 Engine Performance**, Hung-Le Viet, Dung-Do Van, Giang-Luong Huynh, Thanh-Doan Minh

01:30pm - 03:30pm

<u>Chair</u>: Prof. Dr. Chang-Ren Chen, Kun Shan University, Taiwan

Assoc. Prof. Dr. Pham Huy Hoang, Ho Chi Minh City University of Technology, Vietnam

- (1) **1-Effect of Kaolin on the Mechanical Property of Polypropylene/Low Density Polyethylene Blend**, Pham Thi Hong Nga and Tran Ngoc Thien
- (2) 29-Identification of Contact Property between Soft-hard Materials, Le Hoai Phuong and Atsushi Mitani
- (3) 52-Program for Designing Planar Cam Mechanisms, Pham Huy Hoang and Le Quang Ngoc
- (4) 105-Effects of Infill, Infill Patterns and Number of Perimeter Shells on Casting Patterns Fabricated Using FDM Method, Nghi Huynh Huu, Duc Tran Cong Toan, Tho Nguyen Huu and Ha Thai Thi Thu
- (5) **107-Design of the Flexure Hinge Utilized for Ultrasonic-Aided Machining**, Hoang Trung Kien, Van Nguyen Thinh Phat and Pham Le Dang Hai
- (6) **121-Design of a Bistable Mechanism for Symmetric Force Output**, Tien Hoang Ngo, Ngoc Dang Khoa Tran and Dung-An Wang

03:50pm - 05:30pm

<u>Chair</u>: Assoc. Prof. Dr. Atsushi Mitani, Sapporo City University, Japan

Assoc. Prof. Dr. Tran Ngoc Dam, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 122-Study the Effect of Chrome Coating Thickness to Fatigue Strength of the Axle-Shaped Machine Parts, Phoi Nguyen Vinh, Ngon Dang Thien and Cuong Le Chi
- (2) 123-Study on the Applicability of Influence Coefficient Method Combined with Vector Analysis in Dynamic Balancing Rigid Rotor Using Flexible Supports, Lam Tran Thanh, Ngon Dang Thien, Cuong Le Chi
- (3) **124-Influence of Vibration Amplitude on Tool Wear During Ball End Milling of Hardened Steel**, Antsev A. V, Ngon Dang Thien, Trong Dang Huu and Yanov E. S
- (4) 138-Influence of Nanosilica in Mechanical Property of Natural Rubber Composite, Minh Tai Le
- (5) 139-Solution for Heat Treatment in Quenching Process of S45C Steel Small Diameter Machine Parts Having Strong Texture, Long Nguyen Nhut Phi, Ngon Dang Thien, Cuong Le Chi and Phoi Nguyen Vinh

BS-4 Mechatronics Engineering (14 papers)

Venue: Room No. A1-1203, 12th Floor, The Center Building Friday. November 23rd 2018

10:40am - 12:00am

<u>Chair</u>: Assoc. Prof. Dr. Nguyen Truong Thinh, Ho Chi Minh City University of Technology and Education, Vietnam Dr. Nguyen Vu Lan, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 53-Design and Analysis of a Compliant Gripper Integrated with Constant-Force and Static Balanced Mechanism for Micro Manipulation, Duc-Chuong Nguyen, Thanh-Vu Phan and Huy-Tuan Pham
- (2) 87-Research and Development of a Human Step-Counting and Light-Sleep Wake-Up Device for Health Improvement, Huy Q. Vu, Kien T. N. Vu and Dung X. Le
- (3) **91-Investigation on Barbot to Serve Human in Public Space**, Ha Quang Thinh Ngo, Thanh Phuong Nguyen and Hung Nguyen
- (4) **92-Research on Aerial Vehicle for Robust Navigation System Under Natural Disaster**, Ha Anh Minh Tran, Ha Quang Thinh Ngo, Thanh Phuong Nguyen and Hung Nguyen

01:30pm - 03:30pm

<u>Chair</u>: **Prof. Dr. Jau-Huai Lu,** National Chung Hsing University, Taiwan **Dr. Vu Quang Huy,** Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 93-Using Fuzzy Logic Scheme for Automated Guided Vehicle To Track Following Path Under Various Load, Ha Quang Thinh Ngo and Anh Son Tran
- (2) **115-Design and Control of a Ball-balancing Robot**, Danh Ngoc Nguyen, Thanh Bo Cao, Truong Hung Pham, Nhu Thanh Vo, Phuoc Vinh Dang and Hoai Nam Le
- (3) **118-Design an Adaptive Autopilot for an Unmanned Surface Vessel,** Dinh Due Vo, Viet Anh Pham and Duy Anh Nguyen
- (4) 119-Application of Combinatorial Optimization in Logistics, Long Le Ngoc Bao, Duc Hanh Le and Duy Anh Nguyen
- (5) 134-Design A Chess Movement Algorithm and Detect the Movement by Images Classification Using Support Vector Machine Classifier, Ngo Luong Thanh Tra, Phung Tri Cong and Nguyen Duy Anh
- (6) **143- A Study on Building Optimal Path Planning Algorithms for Mobile Robot**, Quoc My Nguyen, Lam Ngoc Minh Tran and Tri Cong Phung

03:50pm - 05:30pm

<u>Chair</u>: Assoc. Prof. Dr. Nguyen Ngoc Phuong, Ho Chi Minh City University of Technology and Education, Vietnam

Assoc. Prof. Dr. Truong Nguyen Luan Vu, HCMC University of Technology and Education, Vietnam

- (1) **185-Fractional PI Control for Coupled-Tank MIMO System**, Vo Lam Chuong, Truong Nguyen Luan Vu and Le Linh
- (2) **191-Study on Response of Knee Rehabilitation Actuator using PID Controller**, Dao Minh Duc, Le Thi Thuy Tram, Tran Xuan Tuy and Pham Dang Phuoc
- (3) **243-Geometrical Design of a RUU Type Delta Robot Based on the Predescribed Workspace**, Hoai Nam Le and Xuan Hoang Le
- (4) **247-Design and Development of "Pho" Vending Machine,** Nguyen Truong Thinh, Tuong Phuoc Tho, Nguyen Ngoc Phuong

BS-5 Applied Physics and Thermal Engineering (15 papers)

Venue: Room No. A1-1204, 12th Floor, The Center Building Friday, November 23rd 2018

10:40am - 12:00am

<u>Chair</u>: Prof. Dr. Yueh-Heng Li, National Cheng Kung University, Taiwan

Dr. Le Minh Nhut, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **34-Optimization of Intermediate Pressure of the Two-stage Refrigeration System**, M. T. Hoang, C. C. Vo, T. V. Nguyen and H. K. Vu
- (2) **36-Research on Heat Exchanger between Water with Air in an Intercooler Based on CFD**, Cuong Duong Quoc, Thi Luong Dinh and Thang Dao Trong
- (3) **61-A Simple Linear Model for the Performance Evaluation of Cascade Fin Arrays**, Hsin-I Chou and Jau-Huai Lu
- (4) 108-Experimental Investigations for Fluid Flow Characteristics of Refrigerant R134a in a Microtubes Evaporator, Thanh Trung Dang, Hoang Tuan Nguyen and Gia Dat Nguyen

01:30pm - 03:30pm

<u>Chair</u>: Assoc. Prof. Dr. Le Anh Duc, Nong lam University, Vietnam

Dr. Nguyen Xuan Vien, HCMC University of Technology and Education, Vietnam

- (1) **127-Experiments on Influence of Gravity to Heat Transfer Efficiency in Micro Tube Condenser**, Thanh Trung Dang, Kien Cuong Giang and Minh Hung Doan
- (2) 132-Experimental Study on Improving Coefficient of Performance for Split Air Conditioning System by Using an Innovative Separated–Vapor Device, Minh Hung Doan, Trong Tuan Nguyen Tran, Xuan Vien Nguyen and Thanh Trung Dang
- (3) 192-The Effects of Mass Flow Rate on the Performance of a Microchannel Evaporator Using CO2 Refrigerant, Trong Hieu Nguyen and Thanh Trung Dang
- (4) 207-A Study on Change of the Shape and Size of the Minichannel Evaporators to Enhance the Cooling Capacity of the CO2 Air Conditioning Cycle, Kim Hang Vo and Thanh Trung Dang
- (5) **211-Experimental studies on Heating and Burning of Characterized Heavy fuel Blended Oil**, Sareddy Kullai Reddy, Chung-Hao Hsu and Yueh-Heng Li
- (6) **215-Study on Designing and Manufacturing a Radio Frequency Generator Using in Drying Technology**, Nguyen Hay, Pham Van Kien and Le Anh Duc

03:50pm - 05:30pm

<u>Chair</u>: Prof. Dr. Jau-Huai Lu, National Chung Hsing University, Taiwan

Assoc. Prof. Dr. Dang Thanh Trung, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 226-Determining an Effective Method for One-Sun-Dried Squid Drying, Le Anh Duc and Pham Van Toan
- (2) **238-Syngas Applied to Micro Thermophotovaltic Power System Assemble with Stirling Engine**, Sheng-Wen Liu, Chien-Chun Kao, Yueh-Heng Li and Wen Li Chen
- (3) 248-Optimizing the Operating Parameters of the Humidification Dehumidification Desalination System by Pinch Technology, Quoc Vo Kien, Quoc Hoang An and Hiep Le Chi
- (4) **249-Theoretical and Experimental Study of Intermittent Absorption Refrigeration System**, Nghia-Hieu Nguyen, Quoc-An Hoang and Hiep-Chi Le, Hung-Duong Hoang
- (5) **253-Exergy Analysis of the Combined Ejector Vapor Compression Refrigeration System Using R134a as Working Fluid,** Kien-Trung Nguyen, Quoc-An Hoang and Hiep-Chi Le

BS-6 Sustainable Economics and Educational Development (14 papers)

Venue: Room No. A1-601B, 6th Floor, The Center Building Friday, November 23rd 2018

10:40am - 12:00am

- <u>Chair</u>: **Dr. Dang Quang Vang,** *Ho Chi Minh City University of Technology and Education, Vietnam* **Dr. Nguyen Quoc Khanh,** *Ho Chi Minh City University of Technology and Education, Vietnam*
 - (1) 3-The Role of Happiness in the Relationship between Social Relations and Organizational Citizenship Behavior, Nguyen Thi Thanh Thuy and Chang Man-Ling
 - (2) 12-Forecasting of CO2 Emissions, Renewable Energy Consumption and Economic Growth in Vietnam Using Grey Models, Hong-Xuyen Thi Ho
 - (3) **21-The Effect of Customers' Personalization of Social Media on Salesperson Selling Behaviors**, Hong Nguyen Thi
 - (4) 28- Factors Affecting the Achievement of Environmental Standard Certificates (ESC) at Small and Medium Vietnamese Enterprises, Nguyen Thi Anh Van and Nguyen Khac Hieu

01:30pm - 03:30pm

<u>Chair</u>: **Dr. Nguyen Thi Thanh Van,** Ho Chi Minh City University of Technology and Education, Vietnam **Dr. Nguyen Khac Hieu,** Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **55-The Owner's Characteristics and Business Performance: The Case of Vietnamese Enterprises**, Nguyen Khac Hieu
- (2) **72-Put Forth a Conceptual Model about Corporate Social Responsibility in Tourism in Ho Chi Minh City**, Nguyen Thi Thanh Van, Nguyen Thien Duy
- (3) **78-Blockchain Technology Opportunities for Emerging Economies**, Quoc Khanh Nguyen, Quang Vang Dang
- (4) 79-Blockchain Technology for the Advancement of the Future, Quoc Khanh Nguyen, Quang Vang Dang
- (5) **82-Factors Affecting the Application of Environmental Management Accounting in Construction Companies in Ho Chi Minh City,** Nguyen Thi Huyen-Tram and Pham Ngoc Toan
- (6) 152-Service-based Green Growth Model for Vietnam, Le Thi Giang and Nguyen Xuan Hiep

03:50pm - 05:30pm

<u>Chair</u>: Assoc. Prof. Dr. Ngo Anh Tuan, Ho Chi Minh City University of Technology and Education, Vietnam Assoc. Prof. Dr. Bui Van Hong, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 42-An Exploration of Extraordinary Characteristics Impacting on the Improvement of Competitive Advantage of Vietnam's Garment Industry, Tri Tran, Tu Tran, John Burgess, Susanne Müller and Marcus Weber
- (2) **259-Innovation Policy for Sustainable Development of SMEs in Benin**, Judicael Paterne Raoul Tokognon and Shao Yunfei
- (3) 236-Organizing Experiential Learning Activities for Sustainable Development of Core Competences of Technical Students at Ho Chi Minh City University of Technology and Education, Duong Thi Kim Oanh
- (4) 237-Sustainable Development of Collaborative Problem Solving Competency for Technical Students through Experiential Learning (A Case Study in Planning Skills Subject at Ho Chi Minh City University of Technology and Education), Hien Dang Thi Dieu, Oanh Duong Thi Kim and Hien Nguyen Vu Bich

BS-7 Chemical and Environmental Engineering (14 papers)

Venue: Room No. A1-1205, 12th Floor, The Center Building Friday, November 23rd 2018

10:40am - 12:00am

<u>Chair</u>: Prof. Dr. Long-Full Lin, Kun Shan University, Taiwan

Dr. Nguyen Thai Anh, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 4-Adsorption Kinetics of Pb (II) and Two-Stage Batch Sorption Design for Removal of Lead (II) from Aqueous Solution by Modified Sugarcane Bagasse, Nguyen Van Suc and Ho Thi Yeu Ly
- (2) 31-Multifunctional Smart Textiles: Influences of Hydrophobic Additional Finishes on Antimicrobial Treated Cotton Fabric, Tuan-Anh Nguyen
- (3) **45-Tra Catfish Oil Production: Phospholipid Removal Using Citric Acid and Bleaching Using Activated Carbon**, Pham Thi Hoan and Trinh Khanh Son
- (4) **56-Green Synthesis of Copper Nanoparticles Deposited on Polyester Filter for Antibacterial Applications**, Nguyen Vinh Tien and Trinh Khanh Son

01:30pm - 03:30pm

<u>Chair</u>: Assoc. Prof. Dr. Nguyen Van Suc, Ho Chi Minh City University of Technology and Education, Vietnam Dr. Trinh Khanh Son, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 76-Fatty Compounds from Olax Imbricata, Vo Thi Nga, Nguyen Thi My Huong and Nguyen Kim Phi Phung
- (2) 95- Diatom Biosilica: from Biosilicification to Bone Tissue Applications, Thi Duy Hanh Le

- (3) 96- Colloidal Synthesis of Metal Nanoparticles for Surface Enhanced Spectroscopy and Electrocatalytic Applications, Nhung Thi Tran
- (4) 111- Study on Application of Biocomposite Bio-Material Prepared from Ferromagnetic Nano Oxide and Biogum Extracted from Cassia Fistula Seeds in Methylene Blue Treatment, Dao Minh Trung and Nguyen Duc Dat Duc
- (5) 164- Optimization of the Factors that Enhance the Isolation Efficiency of Collagen from Pangasius Fish Skin, Nguyen Tien Luc
- (6) 170- Building a Mathematical Model to Determine the Relationship between Heat Emission Coefficient and Pressure of the Freeze Drying Environment of Solid Materials, Nguyen Tan Dzung

03:50pm - 05:30pm

<u>Chair</u>: **Dr. Vo Thi Nga,** Ho Chi Minh City University of Technology and Education, Vietnam **Dr. Nguyen Tan Dung,** Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **190-Extracting and Purifying Pigment R-phycoerythrin from the Red alga Mastocarpus Stellatus**, Huu Phuoc Trang Nguyen, Michèle Morançais, Joël Fleurence, Thi Ngoc Linh Tran and Justine Dumay
- (2) **206-Research and Development of Natural Rubber Processing Technology for Vehicle Radial Tire Manufacturing in Vietnam**, Bui Huu Phu, Nguyen Ngoc An, Nguyen Huu Hung, Huynh Thi Viet Ha and Nguyen Dinh Dong
- (3) **234-Wastewater Treatment and Reuse on Campus: A Case Study in Kun Shan University**, W.-C. Kuo, C. W. Pan and L. F. Lin
- (4) **251-Enantio-selective Crystallization via a Kinetic and Thermodynamic Hybrid Process**, Tam Le Minh, Heike Lorenz and Andreas Seider-Morgenstern

BS-8 Electronics Engineering (15 papers)

Venue: Room No.A1-1206, 12th Floor, The Center Building Friday, November 23rd 2018

10:40am - 12:00am

<u>Chair</u>: Prof. Dr. Kai-Yew Lum, National Chi Nan University, Taiwan

Assoc. Prof. Dr. Tran Thu Ha, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **2-New Fuzzy-Based Adaptive Control Design for Chaotic Permanent Magnet Synchronous Motors**, Tat-Bao-Thien Nguyen
- (2) **22-Lossless Data Compression Algorithm To Save Energy In Wireless Sensor Network**, Tuong Ly Le and Minh Huan Vo
- (3) **25-A Vision-based Method for Autonomous Landing on a Target with a Quadcopter**, Le-Anh Tran, Ngoc-Phu Le, Truong-Dong Do and My-Ha Le
- (4) **27-Navigating Self-Driving Vehicles Using Convolutional Neural Network**, Minh-Thien Duong, Truong-Dong Do and My-Ha Le

01:30pm - 03:30pm

<u>Chair</u>: Prof. Dr. Kai-Yew Lum, National Chi Nan University, Taiwan
Dr. Vo Minh Huan, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **48-An Implementation of Neuro-Fuzzy System for Gait Analysis in a Smart Insole of Exoskeleton**, Do Xuan Phu, Ta Duc Huy and Tran Hoang Ha
- (2) **65-Design Adaptive Controller and Guidance System of an Unmanned Surface Vehicle for Environmental Monitoring Applications**, Ngoc-Huy Tran and Nguyen-Nhut-Thanh Pham
- (3) 101-Adaptive Evolutionary Neural Network Gait Generation for Humanoid Robot Optimized with Modified Differential Evolution Algorithm, Tran Thien Huan, Cao Van Kien and Ho Pham Huy Anh
- (4) **147-Implementation of Moving Average Filter on STM32F4 for Vibration Sensor Application**, Duong Truong Thinh, Nguyen Ba Hoang Quan and Nopadon Maneetien
- (5) 148-Modeling and Control of Diode Clamped Three-level Inverter to Eliminate Common Mode Current in AC Motor Drive System, Mon-Van Doi and Nho-Van Nguyen
- (6) 155-Direct Power Control Strategy to Eliminate Common Mode Voltage in Three Phases Three-level Neutral Point Clamped PWM Rectifier, Mon-Van Doi and Nho-Van Nguyen

03:50pm - 05:30pm

Chair: **Assoc. Prof. Dr. Nguyen Minh Tam,** Ho Chi Minh City University of Technology and Education, Vietnam **Assoc. Prof. Dr. Nguyen Thanh Hai,** Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 161-Unknown Input Method Based Observer Synthesis and Actuator Fault Estimation for Polynomial T-S Fuzzy Systems, Van-Phong Vu and Wen-June Wang
- (2) 179-Designing Dynamic Positioning System Based on H∞ Robust Recurrent Cerebellar Model Articulation Controller, V.P Ta, X.K Dang, V.H Dong and V.D Do
- (3) **196-An Application of Pressure Estimation in Minimally Invasive Surgery**, Van-Muot Nguyen, Eike Christian Smolinski, Alexander Benkmann, Wolfgang Drewelow, and Torsten Jeinsch
- (4) **217-Bio-realistic Neural Network in Speech Timing Learning Mechanism**, Minh N.L, Thanh V.N, Vinh D.P, Ngoc N.D, Nam L.H and Hai T.N
- (5) **225-Sliding Mode Controller with DOBC and MTPA Trajectory for Surface-Mounted PMSM**, Sabizhan Sumbekov and Ton Duc Do

DAY 2 (SATURDAY, NOVEMBER 24th 2018)

BS-2 Renewable Energy and Power System Engineering (6 papers)

Venue: Room No.A1-1207, 12th Floor, The Center Building Saturday, November 24th 2018

10:15am - 12:15pm

<u>Chair</u>: Assoc. Prof. Dr. Vo Viet Cuong, Ho Chi Minh City University of Technology and Education, Vietnam

Assoc. Prof. Dr. Truong Dinh Nhon, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 214-Contradistinctive Inquisitions of Windbelt Generator, Bishwajit Banik Pathik and Rezwan Ahmed
- (2) **220-Impact of Duyen-Hai Wind Farms on Tra-Vinh Power Transmission Systems**, Thanh-Nhan Vo, Van-Tan Tran and Hoa Minh Nguyen
- (3) 221-A Coordinated Control Strategy for DC-link Voltage and Crowbar to Enhance Low Voltage Ride-Through of DFIG-based Wind Energy Conversion Systems, Tan Luong Van, Trung Hieu Truong, Hoan Tran and Ngoc Khoa Dang
- (4) 233-Improved Control Scheme for Low Voltage Ride-Through of PMSG-based Wind Energy Conversion Systems, Tan Luong Van, Trung Hieu Truong, Minh Tien Cao, Phu Cong Nguyen and Hung Nguyen
- (5) **261-Feasibility for Solid Waste Power Generation at Phu Quoc Island, Vietnam**, Hoang-Phuong Nguyen, Viet-Cuong Vo, Vinh-Nghi Le, Thi-Thanh-Binh Phan and Thanh-Phong Tran
- (6) **262-Improvement of Biodiesel Transesterification Efficiency by Activated Carbon and Microwave Power**, Nguyen Vu Lan and Ming-Chien Hsiao

BS-3 Automotive and Mechanical Engineering (6 papers)

Venue: Room No.A1-1202, 12th Floor, The Center Building Saturday, November 24th 2018

10:15am - 12:15pm

<u>Chair</u>: Assoc. Prof. Dr. Dang Thien Ngon, Ho Chi Minh City University of Technology and Education, Vietnam

Assoc. Prof. Dr. Pham Huy Tuan, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **140-Developing of Aging Wine Model by Dielectric Barrier Discharge (DBD) at Atmospheric Pressure**, N. Dam Tran and Nob. Harada
- (2) 142-Some Experimental Research Results on Steel Fatigue: A Review, Van Huu Thinh
- (3) **166-Effects of Convective Vacuum Drying with Heating Coil on Properties of Pyinkado (Xylia Xylocarpa)**, Bui Thi Thien Kim, Hoang Thi Thanh Huong, Ho Xuan Cac and Nguyen Van Hung
- (4) **218-A Small Test Rig for Evaluating Characteristics of Rotating Machinery**, Tran Phuoc Thanh, Dang Phuoc Vinh, Vo Ngoc Vu, Le Hoai Nam, Vo Nhu Thanh and Nguyen Danh Ngoc
- (5) **250-Atomistic Simulation Study of Crack Tip Blunting and the Influence of Blunting Behavior on the Fracture Strength of A Single Layer Graphene Sheet**, Minh-Ky Nguyen
- (6) **235-Effect of Punching Parameters on the Burr Height of the Bracket Product**, Thanh Trung Do, Pham Son Minh and Anh Nhon Bui

BS-9A Electrical Engineering (6 papers)

Venue: Room No.A1-1203, 12th Floor, The Center Building Saturday, November 24th 2018

10:15am - 12:15pm

<u>Chair</u>: Prof. Dr. Hojin Jeong, Koreatech University, Korea

Assoc. Prof. Dr. Phan Van Ca, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **8-Controlled Diode Bridge Clamped Three-Level Inverter Based on Quasi-Switched Boost Network**, Duc-Tri Do, Minh-Khai Nguyen, Thanh-Hai Quach and Duy-Thao Nguyen
- (2) **39-Analysis and Design of Distributed and Concentrated IPMSM for Compressor in Electric Vehicles,** Hojin Jeong, Jeihoon Baek, Namhun Kim, Geunsoo Lee, Sangshin Kwak and Chihyung Ahn
- (3) **62-Electromagnetic Field Modeling and Analysis Based on QuickField Simulator,** Mai Nguyen Thi Bich and Ngoc Thien Le
- (4) **77-Study on Inertia Wheel Pendulum Applied to Self-Balancing Electric Motorcycle,** Quang Khanh Ho and Cong Bang Pham
- (5) 89-45 nm-CMOS Temperature Sensor Using 2-Stage Vernier Technique, Minh Huan Vo
- (6) **100-Advanced Speed Control of PMSM Motor Using Neural FOC Method,** Ho Pham Huy Anh, Cao Van Kien, Tran Thien Huan and Pham Quoc Khanh

BS-9B Electrical Engineering (6 papers)

Venue: Room No.A1-1204, 12th Floor, The Center Building Saturday, November 24th 2018

10:15am - 12:15pm

<u>Chair</u>: Prof. Dr. Nob. Harada, National Institute of Technology, Kitakyushu College, Japan
Dr. Quach Thanh Hai, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 126-Adaptive Tracking Control for a Boost DC DC Converter: A Switched Systems Approach, Dao Phuong Nam, Bui Minh Thang and Nguyen Truong Thanh
- (2) **130-Enhancing Voltage Stability of Thu Duc Transmission System Using Static Var Compensator,** M.-S. Nguyen Thi, D.-N. Truong, T.-T. Hoang, M.-T. Le Dang and H.-N. Pham Lam
- (3) **165-A Thorough Overview of Hierarchical Structure of Microgrid Systems,** Nguyen Van Tan, Le Hong Lam, Duong Minh Quan, Nguyen Huu Hieu and Le Kim Hung
- (4) 172-Influence of Vegetable Oils on Breakdown Voltages of Enamel Insulation of Transformer Wire, N.V. Dung, N.P. Long and L.Q. Khuong
- (5) **178-Various Algorithms to Detect Faults on Underground Cables Based on Impedance Method,** Le Hong Lam, Dang Hong Quan, Nguyen Van Tan and Nguyen Huu Hieu
- (6) 222-Hybrid PVK: OXD-7: QDs Emitting Layer for High Color Purified Quantum Dot Light Emitting-Diode, Hoang-Tuan Vu, Chih-Chiang Yang, Ba-Son Nguyen and Yan-Kuin Su

BS-10A Applied Science and Information Engineering (5 papers)

Venue: Room No.A1-1205, 12th Floor, The Center Building Saturday, November 24th 2018

10:15am - 12:15pm

<u>Chair</u>: Prof. Dr. Hsuan-Ming Feng, National Quemoy University, Taiwan
Dr. Le Van Vinh, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 33-Immediate Velocity Prediction of a Mixed-Traffic Flow in Urban Road Networks with Spatial-Temporal Correlation Analysis, Hong Thanh Pham, Tran Van Lang and Van Hoai Tran
- (2) **51-IoT-Based Smart Plug-In Device for Home Energy Management System,** Thanh Dat Nguyen, Viet Khang Tran, Tan Duy Nguyen, Ngoc Thien Le and My Ha Le
- (3) 84-Facial Expression Recognition Based on Salient Regions, Anh Vo and Bao T. Nguyen
- (4) 99-Optimal Configuration Design and Operation of Pressurized Irrigation Systems Using Stochastic Optimization, Pham Van Tinh and Pham Duc Dai
- (5) **159-Human Image Recognition through Dynamic Mapping Generation,** Hsuan-Ming Feng, Hua-Ching Chen and Ching-Chang Wong

BS-10B Applied Science and Information Engineering (6 papers)

Venue: Room No. A1-1206, 12th Floor, The Center Building Saturday, November 24th 2018

10:15am - 12:15pm

<u>Chair</u>: Assoc. Prof. Dr. Duong Tuan Anh, Ho Chi Minh City University of Technology, Vietnam Dr. Thanatip Chankong, University of Phayao, Thailand

- (1) **187-Chaotic Time Series Prediction Using Radial Basis Function Networks**, Nguyen Van Truc and Duong Tuan Anh
- (2) 205-Automatic Classifying of Cervical Cells Using Fourier Spectral Features, Thanatip Chankong
- (3) **209-Optimization Scheduling for Flexible Manufacturing System using Petri net,** Tung Pham Truong, Phuoc Pham Dang and Binh Luu Duc
- (4) 219-Green Wave based Solution for Intelligent Traffic Lights System Control in Vietnam Urban Areas, Cao Tho Phan, Duy Duong Pham, Phuong Mai Nguyen and Hoang Vu Tran
- (5) **245-The Existence of Solutions for an Initial Value Problem of Caputo-katugampola Fractional Differential Equations,** Truong Vinh An
- (6) **260-Proposing a Deployment Strategy of Sensor Network for Tracking Mobile Heat Source Trajectory,** Thanh-Phong Tran

BS-11A Civil Engineering (5 papers)

Venue: Room No. A1-602, 6th Floor, The Center Building Saturday, November 24th 2018

10:15am - 12:15pm

<u>Chair</u>: Assoc. Prof. Dr. Nguyen Trung Kien, Ho Chi Minh City University of Technology and Education, Vietnam Dr. Chau Dinh Thanh, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) 6-Comparative Structural and Non-structural Properties of Ultra High-performance Steel-fiber-reinforced Concretes and High Performance Steel-fiber-reinforced Concretes, Duy-Liem Nguyen, Phu-Cuong Nguyen, Van-Thuan Nguyen and Luu Mai
- (2) 7-Environmental Condition Dependent Electrical Resistivity of High-Performance Fiber-Reinforced Concretes, Duy-Liem Nguyen
- (3) 11-Comparison of Stress Field and Strut-and-Tie Analyses, Jaroslav Navrátil and Bao Dang Tran
- (4) 13-Density-Based Optimization for Strut-Tie Modeling, Luu Mai and Duy-Liem Nguyen
- (5) **35-A Cell-based MITC3+ Flat Shell Element for Frequency Analyses of Plates and Shells Using Substructuring Methods,** Thanh Chau-Dinh, Huy Vo-Ngoc and Jin-Gyun Kim

BS-11B Civil Engineering (5 papers)

Venue: Room No. A1-601B, 6th Floor, The Center Building Saturday, November 24th 2018

10:15am - 12:15pm

<u>Chair</u>: Assoc. Prof. Dr. Phan Duc Hung, Ho Chi Minh City University of Technology and Education, Vietnam Dr. Tran Vu Tu, Ho Chi Minh City University of Technology and Education, Vietnam

- (1) **14-Application Ability and Development Orientation of Ecological Apartments in Ho Chi Minh City**, Hai Yen Hoang
- (2) **66-A Study on Steel Slag Replacing Sand in Concrete,** Thanh-Vinh Nguyen, Anh-Thang Le and Manh-Tuan Nguyen
- (3) **141-A Comparison of Motorcycle Ownership and Use in Ho Chi Minh City and Bangkok,** Tran Vu Tu and Hiroaki Nishiuchi
- (4) 229-Performance of Hot Mix Asphalt Concrete When using Electric-Arc Furnace Slag as Natural Coarse Aggregate, Manh Tuan Nguyen, and Anh Thang Le
- (5) 230-Proposal of a Measuring Duration of Water Permeability for Cover Concrete by Surface Water Absorption Test in Poor Curing Conditions, Van Toan Ngo

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