PROGRAM THE 6TH INTERNATIONAL CONFERENCE ON ENGINEERING MECHANICS AND AUTOMATION (ICEMA6)
November 13-14, 2021

November 13-14, 2021 Afternoon November 13, 2021					
	(authors can log in to have a trial before the official presentation on the conference date)				
Morning N	ovember 14, 2021				
08:00-08:10	Opening Ceremony				
	Opening Speech of Prof. Nguye	en Viet Ha, Rector of University of Engineering and Technology, Vietnam Nat	ional University, Hanoi, Vietnam		
	Welcome speech of the Director of the Institute of Mechanics				
	Welcome message by Director of the Asia Research Center, Vietnam National University, Hanoi				
	Plenary Session				
	Chairmen. Prof. Chu Duc Trinh and Prof. Nguyen Tien Khiem				
08:10-08:30	Nguyen Dong Anh, Nguyen Ngoc Linh, Nguyen Nhu Hieu, Dang Van Hieu. Some Dual Techniques in the study of Nonlinear Dynamic Systems (Invited Speaker)				
08:30-08:50	Nguyen Dinh Duc, Viet-Hung Truong. Prediction Of Steel Structures' Responses Using Machine Learning: Prospects And Challenges (Invited Speaker)				
	FLUID MECHANICS	MECHATRONICS AND AUTOMATION	SOLID MECHANICS		
	Chairmen. Assoc. Prof. Dang The Ba and Assoc. Prof. Nguyen The Duc Scientific Secretary: MSc. Do Huy Diep	Chairmen. Assoc. Prof. Pham Manh Thang and Dr. Do Tran Thang Scientific Secretary: MSc. Hoang Van Manh	Chairmen. Prof. Nguyen Dong Anh and Assoc. Prof. Nguyen Viet Khoa Scientific Secretary: Dr. Bui Hong Son		
	Thu Ha Tran, Hong Son Hoang, Hong Phong Nguyen. A sensitivity		Nguyen Dang Bich, Nguyen Hoang Tung, Le Xuan Tung. Research for static stability of the conical shells including foundation effects		
	Nguyen Tuan Anh, Nguyen Chinh Kien, Duong Thi Thanh Huong. Evaluation of salinity intrusion on Kone – Ha Thanh river system		N. D. Anh, Nguyen Ngoc Linh, Nguyen Van Manh, Anh Tay Nguyen. Nonlinear vibration in Dufing system subjected to narrow-bad colored noise excitation		
	wave amplitude on the output power of linear generator by numerical		Nguyen Dong Anh, Manukid Parnichkun, Phan Thi Tra My, Nguyen Cao Thang, Le Thi Hong Gam, Pham Ngoc Chung, Nguyen Nhu Hieu. Force Control of an Upper Limb Exoskeleton for Perceiving Reality and Supporting Human Movement Using Feed-forward Model		
10h00-10h10	Session break				
	Chairmen: Assoc. Prof. Dang The Ba and Assoc. Prof. Tran Thu Ha	Chairmen. Assoc. Prof. Pham Manh Thang and Dr. Do Tran Thang	Chairmen: Prof. Nguyen Dinh Duc and Prof. Nguyen Tien Khiem		
	Scientific Secretary: MS. Do Huy Diep	Scientific Secretary: MSc. Hoang Van Manh	Scientific Secretary: ME. Pham Dinh Nguyen		
	Tran Thi Thanh Huyen, Nguyen Chinh Kien. Application of GIS tool and hydrologic modelling for flow simulation of Cau river basin		Pham Dinh Nguyen, George Papazafeiropoulos, Quang-Viet Vu, Nguyen Dinh Duc. Optimum buckling analysis of laminated composite plates reinforced by multiple stiffeners		
	Prediction of Flow Aerodynamic around Airfoil	Multi Mobile Robot System Application on Transportation in the Warehouse: an Introduction	Doan Hong Duc, Do Van Thom, Phung Van Minh, Nguyen Dinh Duc. Finite element modeling for free vibration behaviors of piezoelectric cracked nanoplates with flexoelectric effects		
	Nguyen Hoang Quan, Tran Dang Huy, Duong Viet Dung. Determination of Aerodynamic Coefficients of Drone Propeller by 3D Scanning Technology and Blade Element Momentum Method		Mai Van Trung, Vu Dinh Giang, Nguyen Dinh Duc, Vu Thi Thuy Anh. Simulation of crack propagation in FG-GPLRC structures and its application in dataset generation		

			Ngo Dinh Dat, Nguyen Dinh Duc, Vu Dinh Giang, Vu Thi Thuy Anh. Investigation of a sandwich plate with two MEE face sheets and FGM core layer from the nonlinear dynamic buckling point of view
11h30-11h50		- ·	Le Thi Ha. Free vibration of multi-span bi-directional functionally graded beams
11h50-13h00		Lunch break	"
	MECHATRONICS AND AUTOMATION	MECHATRONICS AND AUTOMATION	SOLID MECHANICS
	Chairmen. Dr. Do Tran Thang and Dr. Vu Bao Lam Scientific Secretary: Dr. Dinh Tran Hiep	Chairmen. Assoc. Prof. Pham Manh Thang and Dr. Tran Anh Quan Scientific Secretary: MSc. Hoang Van Manh	Chairmen: Assoc. Prof. Nguyen Manh Cuong and Dr Nguyen Trương Giang Scientific Secretary: MS Dao Thi Bớch Thao
	Duong Vu, Anh Hoang Vo, Trung Duy Dao, Quy Thu Le. Solution for robot cleaning the photovoltaic panels in Vietnam	Duc-Anh Dao, Truong-Son Nguyen, Cong-Hoang Quach and Minh- Trien Pham. Design of UAV system and workflow for weed image	Khoa Viet Nguyen, Thao Thi Bich Dao, Long Do Vu, Quang Van Nguyen. Exact receptance function of the axially load cracked beam carrying concentrated mass
			Cong Vinh Pham, Manh Cuong Nguyen, Tuan Hai Nguyen. Vibration analysis of FGM ring-stiffened conical shells by Continuous Element Method
		Tran Thanh Tung. Development of a gripper for a fruit harvesting machine	Tuan Hai Nguyen, Manh Cuong Nguyen, Quoc Hung Nguyen. Parameters analysis on the vibration of composite ring-stiffened cylindrical shells in interaction with elastic foundation
	Data Using Change Detection	Hang Tran Thanh, Duong Nguyen Dinh, Vinh Nguyen Phuc, Hoang Tong Tran, An Nguyen Ngoc, Loc Do Quang. Development of a Low-delivery-rate Syringe Infusion Pump towards Remote Monitoring of Biomedical Applications using Accessible IoT Technology	
14h20-14h40	Nguyen Van Khang, Dinh Cong Dat, Nguyen Van Quyen. Dynamic stability control and calculating inverse dynamics of a single-link flexible manipulator		Hoang Ngoc Quy, Nguyen Truong Giang. Simulation superelastic behavior of shape memory alloy and applications reduce oscillations
14h40-14h50	nearote manipulator	Session break	
		Chairmen. Assoc. Prof. Pham Manh Thang and Dr. Tran Anh Quan	Chairmen: Assoc. Prof. Nguyen Manh Cuong and Dr Nguyen Trương Giang
		Scientific Secretary: MSc. Hoang Van Manh	Scientific Secretary: MS Dao Thi Bớch Thao
14h50-15h10		Linh Phuong Ta, Hung Xuan Truong, Duong Nam Bui, Huy Xuan Le, Phuong Viet Vu, Minh Duc Nguyen. Research and Fabrication of a Carbon Fiber Parabolic Reflector Antenna for Satellite Ground Station at S-band	Technological Parameters on the Quality of Hydroforming Product
15h10-15h30		Integrate Control System for 3R2S2S typed Delta Robot	Van-Tinh Nguyen. Effect of Structure Properties on Biped Locomotion
15h30-15h50		Pham Manh Thang, Bui Thanh Lam, Hoang Van Manh, Ngo Anh Tuan, Dang Anh Viet, Kim, Jong-Wook. Fruit Picking Robotic Arm for Agricultural Applications	Estimation with Vision Transformer
15h50-16h10		Bui Thanh Lam, Hoang Van Manh, Pham Manh Thang, Ngo Anh Tuan, Dang Anh Viet, Pham Manh Tuan. Image processing algorithms for an agricultural harvesting robot in natural lighting conditions	
16h10-16h30		Cuong Nguyen Nhu, Hang Nguyen Thu, Thao Pham Ngoc. Improvement in Mixing Efficiency of Passive Micromixer with Integrated Grooves	
	II	Closing Session	