

Program at Glance
(The Conference is held at Ta Quang Buu Library, HUST)

October 27			
07:30 - 08:00	Registration		10th FL
08:00 - 08:30	Opening ceremony		10th FL, Main Hall
08:30 - 12:00	Keynote lectures		10th FL, Main Hall
12:00 - 13:30	Lunch		10th FL
13:30 - 14:30	Parallel sessions (03 oral presentations/each session)		
S1 Turbomachine & Renewable Energy	S2 Hydraulic/pneumatic Dynamics & Control	S3 Numerical Simulation & Modeling	S4 Advanced Industrial Applications & Design
14:30 - 15:00	Coffee break/Poster sessions		10th FL
15:00 - 16:00	Parallel sessions (03 oral presentations/each session)		
S1 Turbomachine & Renewable Energy	S2 Hydraulic/pneumatic Dynamics & Control	S3 Numerical Simulation & Modeling	S4 Advanced Industrial Applications & Design
18:30 - 21:00	Gala dinner		10th FL
October 28			
09:00 - 10:00	Parallel sessions (03 oral presentations/each session)		
S1 Turbomachine & Renewable Energy	S2 Hydraulic/pneumatic Dynamics & Control	S3 Numerical Simulation & Modeling	S4 Advanced Industrial Applications & Design
10:00 - 10:30	Coffee break/Poster sessions		10th FL
10:30 - 11:30	Parallel sessions (03 oral presentations/each session)		
S1 Turbomachine & Renewable Energy	S2 Hydraulic/pneumatic Dynamics & Control	S3 Numerical Simulation & Modeling	S4 Advanced Industrial Applications & Design
11:30 - 13:00	Lunch		10th FL
13:00 - 14:00	Parallel sessions (03 oral presentations/each session)		
S1 Turbomachine & Renewable Energy	S2 Hydraulic/pneumatic Dynamics & Control	S3 Numerical Simulation & Modeling	S4 Advanced Industrial Applications & Design
14:00 - 14:30	Coffee break/Poster sessions		10th FL
14:30 - 15:30	Parallel sessions (03 oral presentations/each session)		
S1 Turbomachine & Renewable Energy	S2 Hydraulic/pneumatic Dynamics & Control	S3 Numerical Simulation & Modeling	S4 Advanced Industrial Applications & Design
15:30 - 16:30	Closing Ceremony		

Keynote Lectures
Main Hall, 10th Floor

October 27

08:00 - 08:30 Opening ceremony

08:30 - 12:00 Keynote Lectures

Chair: Prof. NGUYEN The Mich
(Hanoi University of Science and Technology)

08:30 - 09:00 Unsteady Swirl Flow Suppression in the Draft Tube of Francis Hydro Turbine Model by J-Groove

Young-Do Choi
(Mokpo National University, Korea)

09:00 - 09:30 Numerical and Experimental Investigation of Cavitation Instabilities in Turbopump in Liquid Propellant Rocket

Iga Yuka
(Tohoku University, Japan)

09:30 - 10:00 Flow Analysis and Optimal Design of Fluid Machinery Based on Vortex Dynamics

Baoshan Zhu
(Tsinghua University, China)

10:00 - 10:30 Coffee break/Poster sessions

10:30 - 00:00 Keynote Lectures

Chair: Prof. LE Anh Tuan
(Hanoi University of Science and Technology)

10:30 - 11:00 An Adaptive Mesh Refinement Multi-grid Finite Element Method for Simulating Incompressible Unsteady Flows

Hyoung-Gwon Choi
(Seoul National University of Science and Technology, Korea)

11:00 - 11:30 The Dynamic Analysis and Control of Hydraulic Machine System and Industrial Robotic Manipulators

Yunn-Lin Hwang
(National Formosa University, Taiwan)

11:30 - 12:00 Development of Preliminary Design for Tidal Power Plant at Kuching Barrage

Andrew Ragai Henry Rigit
(Universiti Malaysia Sarawak, Malaysia)

October 28

15:30 - 16:30

Closing Ceremony

Parallel Sessions
Room 923
S1 - Turbomachine and Renewable Energy

October 27

13:30 - 14:30 Chair: Hyoung Gwon Choi

(Seoul National University of Science and Technology)

13:30 - 13:50 ICFMAS001: Aerodynamic Performances of a Transonic Axial Compressor with Rotor Hub Fillet

Hoang-Tung Vu, Dinh-Quy Vu, Cong-Truong Dinh

13:50 - 14:10 ICFMAS002: Vertical Axis Wind Turbine with Pivoting Blades – A New Study of Vertical Axis WindTurbine

Nguyen Van Khanh, Le Danh Lien

14:10 - 14:30 ICFMAS004: Design and Optimization of a Wind Turbine Blade Working at Low Wind Speeds

Nguyen Cong Hao, Nguyen The Mich, Tran Van Tran

14:30 - 15:00 Coffee break/Poster sessions

(10th FL)

15:00 - 16:00 Chair: Le Van Sy

(Petro Vietnam University)

15:00 - 15:20 ICFMAS016: Evaluation of Performance and Wake Characteristics of Two-Bladed Tidal Stream Turbine Using Numerical Method

Nguyen Manh Hung, Tran Hong Ha, Hoang Anh Dung, Changjo Yang

15:20 - 15:40 ICFMAS022: Influences of Inlet Configuration on Flow Hydrokinetic Behavior in GLCC Separator

Le Van Sy, Dang Thuc Van

15:40 - 16:00 ICFMAS028: A Multi-Fidelity Model to Predict the Performance of Torpedo Propellers

Nguyen Anh Tuan, Vu Thanh Trung, Bui Duy Thinh

October 28

09:00 - 10:00 Chair: Dang Ngoc Thanh

(Le Quy Don Technical University)

09:00 - 09:20 ICFMAS030: An Approach to Study the Airflow over 3D Objects by the Vortex-lattice Method

Pham Thanh Dong, Nguyen Anh Tuan, Pham Vu Uy

09:20 - 09:40 ICFMAS031: Numerical Method to Study Helicopter Main Rotor-fuselage Aerodynamic Interaction

Pham Thanh Dong, Nguyen Anh Tuan, Dang Ngoc Thanh, Pham Vu Uy

09:40 - 10:00 ICFMAS037: Constructing Computational Program to Determine Induced Torque Components on Helicopter Main Rotor Rotation Axis

Nguyen Khanh Chinh, Pham Vu Uy

10:00 - 10:30 Coffee break/Poster sessions (10th FL)

10:30 - 11:30 Chair: Nguyen Thien Tong

(Ho Chi Minh City University of Technology)

10:30 - 10:50 ICFMAS042: Suppression of the Swirl Flow in a Draft Tube of a Bulb Turbine Model by Optimum J-Groove Shape

Viet Luyen Vu, Young-Do Choi

10:50 - 11:10 ICFMAS054: Design Process of a Small-scale Wind Turbine for Water Pumping to Meet Household Needs

Ly Hung Anh

11:10 - 11:30 ICFMAS068: Optimal Design of Wind Turbine Blades using Vortex Theory

Tran Tien Anh

11:30 - 13:00 Lunch (10th FL)

13:00 - 14:00 Chair: Le Quang

(Hanoi University of Science and Technology)

13:00 - 13:20 ICFMAS073: Aerodynamic Performances of a Single-stage Transonic Axial Compressor with Blade Design near Stator Hub Surface

Tuan-Long Vu, Tan-Hung Dinh, Cong-Truong Dinh

13:20 - 13:40 ICFMAS074: Effects of Different Rotors Distance on Aerodynamic Performances of a Multi-rotor Unmanned Aerial Vehicle

Cong-Truong Dinh, Dinh-Quy Vu

13:40 - 14:00 ICFMAS080: Modeling the Characteristic Curve of Wind Turbine on Various Pitch Angle and Tip Speed Ratio

Phan Tran Hong Long, Ho Ngoc Dung, Ho Sy Mao

14:00 - 14:30 Coffee break/Poster sessions (10th FL)

14:30 - 15:30 Chair: Nguyen Duc Cuong

(Vietnam Aerospace Association)

14:30 - 14:50 ICFMAS113: Working Mode of Centrifuge Feed Pump Systems at the Coal Processing Plants in Quang Nin

Vu Nam Ngan, Vu Ngoc Tra

14:50 - 15:10 ICFMAS126: Numerical Simulation of the Contra-Rotating Propeller by using Ansys CFX

Vu Pham Duc Dung, Tran Tien Anh

15:10 - 15:30 ICFMAS130: Research Results of Design, Manufacture and Testing of Horizontal Axial Flow Submersible Pump (Capsule Type) for Irrigation, Drainage in Agriculture and Preventing Local Flooding

Nguyen Minh Tuan, Nguyen Van Bay

Room 902

S2 - Hydraulic/pneumatic Dynamics and Control

October 27

13:30 - 14:30 Chair: Nguyen Duc Hung

(University of Tasmania)

13:30 - 13:50 ICFMAS021: Researching and Building Mathematical Models in order to Calculate and Design the Pneumatic Pressure Stabilizer Automatic Valve

Tang Xuan Long

13:50 - 14:10 ICFMAS025: A Rapid Object-Oriented Process to Develop Controllers for Autonomous Underwater Vehicles

Ngo Van Hien, Pham Gia Diem

14:10 - 14:30 ICFMAS026: A Hierarchical Implementation Model to Realize Cooperative Controllers of AUS-MAUVs

Nguyen Son Tung, Ngo Van Hien

14:30 - 15:00 Coffee break/Poster sessions

(10th FL)

15:00 - 16:00 Chair: Young-Do Choi

(Mokpo University)

15:00 - 15:20 ICFMAS035: Effect of Friction Models on Simulation of Hydraulic Steering System

Nguyen Van Lai, Tran Xuan Bo, Tran Khanh Duong

15:20 - 15:40 ICFMAS039: Modified Controls Doubly Fed Induction Generator under Unbalanced Voltage Dip for Reduction of Current Harmonic with PI-ANN Controller

Hai Nguyen-Thanh

15:40 - 16:00 ICFMAS043: Neural Networks Based Control for an Autonomous Underwater Vehicle Equipped with the Collective and Cyclic Pitch Propeller

Minh Q. Tran, Hung D. Nguyen

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09:00 - 10:00 Chair: Ngo Van Hien

(Hanoi University of Science and Technology)

09:00 - 09:20 ICFMAS044: Quantitative Manoeuvring Characteristics of an Underwater Vehicle Equipped with Collective and Cyclic Pitch Propeller

Hung D. Nguyen, Arno Dubois, Zhi Q. Leong, Jonathan Binns, Minh Q. Tran

09:20 - 09:40 ICFMAS049: Ship Course Control by Integrating Neural Network with Modal Control Technique

Le Thanh Tung, Hoang Cong Liem

09:40 - 10:00 ICFMAS052: The Calculation of the Pneumatic System Parameters of a Launcher for High Speed UAV

Vuong Trung Anh, Nguyễn Đức Cường, Vũ Hòa Bình, Phạm Văn Hiệp, Trần Duy Duyên

10:00 - 10:30	Coffee break/Poster sessions	(10th FL)
10:30 - 11:30	Chair: Le Van Hoc	(Vietnam Maritime University)
10:30 - 10:50	ICFMAS065: Modeling and Simulating Specialized Vehicle Regenerative Braking System <i>Luyen Van Hieu, Ngo Sy Loc, Tran Khanh Duong, Phạm Văn Hải, Đồng Minh Tuấn</i>	
10:50 - 11:10	ICFMAS078: Identification of Aerodynamic Coefficients of Unmanned Aerial Vehicles According to Flight Testing Data <i>Dang Ngoc Thanh, Nguyen Van Thang</i>	
11:10 - 11:30	ICFMAS082: Evaluate Basic Technical Parameters of the Electro-hydraulic Control System of the Ship Steering Gear <i>Le Van Hoc, Nguyen Ngoc Dam</i>	
11:30 - 13:00	Lunch	(10th FL)
13:00 - 14:00	Chair: Yunn-Lin Hwang	(National Formosa University)
13:00 - 13:20	ICFMAS083: Design Control System Using the Sustainable Controller Incorporating Predictive Elements <i>Nguyen Tien Sang, Le Duc Dung, Pikina Galina Alekceevna, Nguyen Tien Khang</i>	
13:20 - 13:40	ICFMAS092: Research on Modeling Hydraulic System of Working Tool of Hydraulic Excavator by Matlab Simhydraulics <i>Chu Van Dat, Nguyen Tien Khu</i>	
13:40 - 14:00	ICFMAS102: Numerical Simulation of a Hydraulic Hoisting Actuator for Flat Gate of Irrigation Systems in Simhydraulics <i>Van-Thuan Truong, Tuan-Anh Dao</i>	
14:00 - 14:30	Coffee break/Poster sessions	(10th FL)
14:30 - 15:30	Chair: Ngo Sy loc	(VinFPA)
14:30 - 14:50	ICFMAS110: Coefficient Diagram Method for Velocity Control of Hydraulic Motors <i>Quang Hieu Ngo</i>	
14:50 - 15:10	ICFMAS117: Effects of Configurative Parameters on the Dynamic Stiffness and Stability of Pneumatic Vibration Isolation Model <i>N.Y.P. Vo, M.K. Nguyen, T.D. Le</i>	
15:10 - 15:30	ICFMAS129: An Approach to Analyze the Threshold Stability of Internal Gear Motors and Pumps <i>Trong Hoa Pham, Toan Thang Le, Wenming Cheng, Van Trung Vu, Anh Ngoc Nguyen, Thuy Chi Nguyen</i>	

Room 702

S3 - Numerical Simulation and Modeling

October 27

13:30 - 14:30 Chair: Iga Yuka

(Tohoku University)

13:30 - 13:50 ICFMAS008: Effects of Mesh on the Simulation of the 5.5 kW Centrifugal Fan of the Dong Tam Ltd

Nguyen Ngoc Hoang Quan, Ngo Khanh Hieu

13:50 - 14:10 ICFMAS009: Propeller Simulation in Open-water Condition with SnappyHexMesh/OpenFOAM Mesh Generator

Le Van Long, Mai Ngoc Luan, Ngo Khanh Hieu

14:10 - 14:30 ICFMAS017: The Application of DNS for the Research of the Appearance and Propagation of Nonstationary Disturbance Mach Wave

Dinh Hoang Quan, Nguyen Quoc An

14:30 - 15:00 Coffee break/Poster sessions

(10th FL)

15:00 - 16:00 Chair: Baoshan Zhu

(Tsinghua University)

15:00 - 15:20 ICFMAS040: Comparison and Validation of Aerodynamic Prediction using Missile Datcom with CFD and Experimental

Le Quoc Dinh, Vu Manh Hieu, Nhu Van Su, Dinh Tien Dung

15:20 - 15:40 ICFMAS058: Impact of Flow Configuration inside Spray Drying Tower on Drying Efficiency and Product Quality

Thi Thu Hang Tran, Maciej Jaskulski, Kieu Hiep Le, Evangelos Tsotsas

15:40 - 16:00 ICFMAS059: A Numerical Investigation on Droplet Formation in Microfluidic Double T-junction under the Effects of Channel Depth

Ich Long Ngo, Trung Dung Dang

October 28

09:00 - 10:00 Chair: Ngo Khanh Hieu

(Ho Chi Minh City University of Technology)

09:00 - 09:20 ICFMAS062: An Adaptive Coupled Level Set/Volume of Fluid Method for Simulation of Multiphase Flows on Unstructured Grids

Long Cu Ngo, Hyoung Gwon Choi

09:20 - 09:40 ICFMAS070: A Study of Finite Element Method for Fluid-Structure Interaction on Large Deformation Using Spring Analogy Method and Delaunay Triangulation

Sang T. Ha, Hieu V. Vu, Hyoung-Gwon Choi

09:40 - 10:00 ICFMAS071: Numerical Simulation of Cavitating Flow with Thermodynamic Effects of Cavitation

Anh Dinh Le, Yuka Iga

10:00 - 10:30	Coffee break/Poster sessions	(10th FL)
10:30 - 11:30	Chair: Truong Viet Anh (Hanoi University of Science and Technology)	
10:30 - 10:50	ICFMAS096: Developing New Design of a Top-lid Updraft Biomass Cookstove by CFD Modeling <i>Linh Nguyen Huu, Dung Le Duc</i>	
10:50 - 11:10	ICFMAS100: A Study on Ions Transports Through Charged Nanopores <i>Pham Van Sang, Nguyen Viet Bac</i>	
11:10 - 11:30	ICFMAS106: Discontinuous Galerkin for Advection–Diffusion Equation by Combining Recovery-based Scheme and Interface-Centered Binary-Reconstruction Scheme <i>Loc H. Khieu, Eric Johnsen</i>	
11:30 - 13:00	Lunch	(10th FL)
13:00 - 14:00	Chair: Truong Nguyen Luan Vu (Ho Chi Minh City University of Technology and Education)	
13:00 - 13:20	ICFMAS108: Study on Computation of Aerodynamic Force Acting on Bus in Crosswind Conditions by Using CFD <i>Do Tien Quyet, Nguyen Trong Hoan, Trinh Minh Hoang</i>	
13:20 - 13:40	ICFMAS115: A Validation Study of an Iso-surface based VOF Technique in OpenFOAM® for Sloshing Problem <i>Jiwon Choi, Kyoungsik Chang, Sang-Wook Lee, Geon-Hong Kim</i>	
13:40 - 14:00	ICFMAS119: A Numerical Study on Transitional Flow over Aerospatiale A-airfoil Using DDES/IDDES <i>Gabin Lee, Kyoungsik Chang, Sang-WookLee, Geon-Hong Kim</i>	
14:00 - 14:30	Coffee break/Poster sessions	(10th FL)
14:30 - 15:30	Chair: Duong Ngoc Hai (Institute of Mechanics, VAST)	
14:30 - 14:50	ICFMAS120: Effects of the Spanwise Length of Computational Domain on LES based Airfoil Noise Prediction <i>GyeongBo Kim, Kyoungsik Chang, Sang-Wook Lee, Geon-Hong Kim, Byeong Cheon Kim</i>	
14:50 - 15:10	ICFMAS121: Pressure Wave Propagation in Porous Structure Saturated with Water and Methane Bubbles <i>A.A. Gubaidullin, O.Yu. Boldyreva, Duong Ngoc Hai, D.N. Dudko, N.G. Musakaev, Nguyen Tat Thang, Nguyen Quang Thai</i>	
15:10 - 15:30	ICFMAS138: Some Aspects of Cavitation Around a Triangular Cavitator with Curved Sides <i>Pham Van Duyen, Nguyen Quang Huy, Hoang T. Hong Minh, Vu Van Duy, Truong Viet Anh</i>	

Room 303

S4 - Advanced Industrial Applications and Design

October 27

13:30 - 14:30 **Chair: Andrew Ragai Anak Henry Rigit**

(Universiti Malaysia Sarawak)

13:30 - 13:50 ICFMAS012: Robust Multi-Loop PID Controller Design for Multivariable Process with Time Delay

Phan Tan Hai, Truong Nguyen Luan Vu

13:50 - 14:10 ICFMAS027: Optimal Control of Power Flow in Hybrid Wind-diesel System Applied to Electrical System in Phu Quy Island

Thang Diep-Thanh, Quang Nguyen-Phung, Huy Nguyen-Duc

14:10 - 14:30 ICFMAS036: Influence of the Designing Parameters on Flow Fluctuation and Pressure of the Improved Roots Blower

Nguyen Hong Thai, Tran Ngoc Tien, Phan Tien Dung, Nguyen Quang Huy

14:30 - 15:00 **Coffee break/Poster sessions**

(10th FL)

15:00 - 16:00 **Chair: Nguyen Phung Quang**

(Hanoi University of Science and Technology)

15:00 - 15:20 ICFMAS038: Balance Control Method for UAV Camera Using Zero Velocity Controller

Nguyen Khac Thap, Nguyen Van Tam, Mac Luu Phong, Pham Van Tien

15:20 - 15:40 ICFMAS066: Development of a New Side-coil MR Brake Employing Separating Walls between the Coils and MR Fluid

Nguyen Ngoc Diep, Le Dai Hiep, Nguyen Quoc Hung

15:40 - 16:00 ICFMAS081: A Study on Air Flow Through Intake Manifold of an Inline 4 Cylinder Engine

Nguyen Phu Thuong Luu

October 28

09:00 - 10:00 **Chair: Dang The Ba**

(University of Engineering and Technology, VNU)

09:00 - 09:20 ICFMAS087: Investigate Magnetic Field of Dual Halbach Array in Linear Generator using for Wave Energy Conversion

Do Huy Diep, Dang The Ba, Nguyen Van Duc

09:20 - 09:40 ICFMAS093: A Study on Lateral Instability of Tractor Semitrailer Turning Maneuvers on Roads with High Adhesion Coefficient

Duong Ngoc Khanh, Vo Van Huong, Ta Tuan Hung

09:40 - 10:00 ICFMAS094: Simulation of Flow Rate in a Water-in-Glass Evacuated Tube Solar Water Heater

Van Chuong Ta, Nguyen An Nguyen, Quoc Uy Nguyen

10:00 - 10:30 Coffee break/Poster sessions (10th FL)

10:30 - 11:30 Chair: Nguyen Duc Hung

(University of Tasmania)

10:30 - 10:50 ICFMAS105: Design and Manufacture Constant Volume Combustion Chamber (CVCC) Application for Combustion Study
Nguyen Phi Truong, Nguyen Tuan Nghia, Le Anh Tuan

10:50 - 11:10 ICFMAS112: Improve Intake Port/Valve of RV165-2 Engine by Simulation Method
Le Viet Hung, Do Van Dung, Nguyen Anh Thi

11:10 - 11:30 ICFMAS118: Disturbance Observer Based Adaptive Sliding Mode Control and Its Application to a Self-balance Dual-arm Field Robot
Hoang Son, Dian Songyi, Duong Van Tai

11:30 - 13:00 Lunch (10th FL)

13:00 - 14:00 Chair: Hoang Duc Lien

(Viet Nam National University of Agriculture)

13:00 - 13:20 ICFMAS122: Modified Controls Doubly Fed Induction Generator under Unbalanced Voltage Dip for Reduction of Current Harmonic with PI-ANN Controller
Hai Nguyen-Thanh

13:20 - 13:40 ICFMAS124: Evaluating the Ability of Salinity Intrusion Prevention for Tam Ky River of Phu Ninh Reservoir
Cuong T. Nguyen, Kien C. Nguyen, Phuong T.T. Phan, Son T. Hoang

13:40 - 14:00 ICFMAS127: Development and Application of a Simulation Model for Intermittent Gas Lift Method in Petroleum Production
Le Quoc Trung, Nguyen The Duc

14:00 - 14:30 Coffee break/Poster sessions (10th FL)

14:30 - 15:30 Chair: Nguyen The Duc

(Vietnam Petroleum Institute)

14:30 - 14:50 ICFMAS135: A Solution for Measuring the Oil Film Temperature of the Connecting-rod Big End Bearing in the Experimental Device
Tran Thi Thanh Hai, Pham Trung Thien, Luu Trong Thuan

14:50 - 15:10 ICFMAS136: Aeroacoustics Analysis of Main Rotor of Helicopter UAV
Nguyen Hoang Son, Hoang Thi Kim Dung, Nguyen Phu Khanh

15:10 - 15:30 ICFMAS137: Modelling of Thermal Behavior of Thermosyphon
Cong Nghia Phong, Hoang Thi Kim Dung, Nguyen Phu Khanh

Poster Session (10th Floor)

P1	ICFMAS003	The Coefficient of Wind Power Utilization of Vertical Axis Wind Turbine with Pivoting Blades <i>Le Danh Lien, Nguyen Van Khanh</i>
P2	ICFMAS005	Relationship of Geometric Parameters and Kinetic to Characteristics of Wind Turbine Works at Low Wind Speed <i>Nguyen Cong Hao, Nguyen The Mich, Tran Van Tran</i>
P3	ICFMAS006	Numerical Simulation and Testing of a Two-boby Heaving Wave Energy Converter <i>Phung Van Ngoc, Nguyen The Mich, Dang The Ba, Chu Dinh Do</i>
P4	ICFMAS010	Model Order Reduction for Highly Non-linear and Stiff Convection-Diffusion-Reaction Flow Problem <i>Van Bo Nguyen, The Mich Nguyen</i>
P5	ICFMAS013	Studying Hydraulic Regenerative Braking System on the Dump Truck <i>Luyen Van Hieu, Ngo Sy Loc, Tran Khanh Duong</i>
P6	ICFMAS014	Using CFD to Investigate Effect of Rudder on Propeller's Hydrodynamic Characteristics <i>Nguyen Chi Cong, Luong Ngoc Loi, Ngô Văn Hệ, Vũ Văn Duy, Phạm Kỳ Quang</i>
P7	ICFMAS015	A Novel Design and Performance Analysis of Mini Water Turbine-Generator for Portable Applications Using CFD with Experimental Validation <i>Anh Dung Hoang, Chang-Jo Yang, Manh Hung Nguyen, Hong Ha Tran</i>
P8	ICFMAS018	The Application of DNS for Investigation of Laminar-turbulent Transition by Tollmien-Schlichting Wave in the Supersonic Boundary Layer <i>Dinh Hoang Quan, Phan Van Tu, Dang Ngoc Thanh</i>
P9	ICFMAS019	To Suggest the Two-pitch Propeller Uses for Fishing Ships Operating in VietNam's Ocean <i>Nguyen Chi Cong, Luong Ngoc Loi, Ngô Văn Hệ, Vũ Văn Duy, Phạm Kỳ Quang</i>
P10	ICFMAS020	A New Concept of Savonius Turbines to Improve the Power Coefficient <i>Mich Nguyen The, Van-Thuan Truong, Trong-Hiep Nguyen, Truong V. Vu</i>
P11	ICFMAS024	Calculation of Thermodynamic Parameters of High Pressure Turbine Stage of DR 76 Engine Based on Geometric Parameters <i>Vu Duc Manh, Nguyen Trung Kien, Dao Trong Thang</i>
P12	ICFMAS032	Model of Cascade Reservoirs Operation and Relationship of Annual Energy Production with Price in Vietnam Competitive Generation Market <i>Phan Tran Hong Long, Le Quoc Hung</i>

P13	ICFMAS033	Computation of the Critical Speed of a Rotor Supported by Foil-air Bearings <i>Pham Minh Hai, Nguyen Minh Quan</i>
P14	ICFMAS046	Design and Manufacture of Five-hole Air-data Probe: Identification and Calibration Using Least-Squares Method <i>Do Cat Tuan, Nguyen Cao Truong Son, Ngo Dinh Tri, Le Thi Minh Nghia</i>
P15	ICFMAS050	The Gas Generator with Two Zones of Fire - mixed Complex in the Liquid Fuel Jet Engine <i>Nguyen Hanh Hoan</i>
P16	ICFMAS051	Effect of Runner Blade Density Ratio (l/t) on Energy Characteristics of H-type Darrieus Turbine <i>Nguyen Quoc Tuan, Nguyen The Mich, Vu Van Truong, Do Huy Cuong</i>
P17	ICFMAS055	Study on Identifying Several Geometric Parameters of Hydrostatic Spindle Bearing on External Cylindrical Grinding Machine based on Ability of Manufacturing Technology <i>Van-Hung Pham, Tuan-Anh Bui, Thuy-Duong Nguyen</i>
P18	ICFMAS057	Studying Effects of Extending Forces on the Ship Hull in Maneuvering <i>Vũ Văn Duy, Phạm Kỳ Quang, Nguyễn Thành Nhật Lai, Nguyễn Chí Công</i>
P19	ICFMAS060	Numerical Study of the Aerodynamic Characteristics and the Equilibrium of Unmanned Aerial Vehicle Regarding the Horizontal Tail Role <i>Bui Vinh Binh, Hoang Thi Bich Ngoc, Nguyen Hong Son</i>
P20	ICFMAS061	Numerical Simulation for Solidification of Water, Molten Silicon, Molten Germanium on a Cold Plate <i>Binh D. Pham, Truong V. Vu</i>
P21	ICFMAS063	On Different Forms of Energy Equation in Engineering <i>Nguyen Van Que</i>
P22	ICFMAS064	The Flow Behavior of the Gas-Liquid Cylindrical Cyclone (GLCC) Separator when Changing the Different Geometrical Configurations of Inlets <i>Ho Minh Kha, Nguyen Thanh Nam, Hoang Duc Lien, Nguyen Ngoc Phuong, Vo Tuyen</i>
P23	ICFMAS077	Research on the Star Topology Connection of Multi-PLC for Automation Control <i>Vo Nhu Thanh, Tran Ngoc Hai</i>
P24	ICFMAS084	Modeling and Simulation Research Position Control of Hydraulic Cylinder using High Speed on/off Valve is based on the Method PWM (Pulse Width Modulation) of Control Pulse <i>Do Viet Long, Hoang Sinh Truong, Tran Xuan Bo</i>
P25	ICFMAS090	Effect of Accommodation and Container on Air Resistance Acting on Hull of the Container Ship <i>Ngô Văn He, Bui Dinh The</i>

P26	ICFMAS091	Aerodynamic Modeling of a Missile Model using a Semi-Empirical Datasheet Component Build-up Method <i>Luu Hong Quan, Le Tran Thanh Hai, Le Doan Quang, Nguyen Phu Hung</i>
P27	ICFMAS095	Models of High Technology Sea Salt Production by Three-Dimensional Evaporation (E3D) <i>Hoang Duc Lien, Nguyen Quang Hieu</i>
P28	ICFMAS097	Lifting and Discharging the Cassava Roots System for Hydraulic Transmission <i>Tung Nguyen Dinh, Tan Nguyen Van</i>
P29	ICFMAS099	Develop an Immersed Boundary Method Solver in OpenFOAM <i>Vu Do Quoc, Sang Van Pham</i>
P30	ICFMAS101	The Expansion of Lean Limit for Direct Injection Natural Gas Engine by Auxiliary Injection <i>Tran Dang Quoc, Jong Tai Lee</i>
P31	ICFMAS104	Dynamic Simulation of a Underwater Hydraulic Manipulator <i>Van-Thuan Truong, Khanh-Duong Tran</i>
P32	ICFMAS107	Study on Optimization of Moringa Oleifera Leaveshammer Mill <i>Le Anh Duc, Pham Quoc Trang</i>
P33	ICFMAS125	Researching on Developing the Decision Support System for Salinity Control Operation and Management in Vu Gia - Thu Bon River Basin <i>Son T. Hoang, Lam X. Nguyen, Trinh D. Tran, Son T. Nguyen, Phuong T. T. Phan, Cuong T. Nguyen</i>
P34	ICFMAS128	Study on the Parameterized Three-dimensional Models of Different Shifted Helical Gear Pairs <i>Truong Duc Phuc</i>
P35	ICFMAS131	Aeromechanic Performance of a Single-stage Transonic Axial Compressor using Bleeding Airflow <i>Cong-Truong Dinh, Dinh-Quy Vu, Xuan-Truong Le, Duc-Hay Nguyen</i>
P36	ICFMAS132	Simulation Dynamic System Electric Powertrain using in the Automobile <i>Quang Thanh Nguyen</i>
P37	ICFMAS133	Simulation of Pitch-roll-yaw Vibrations of Vehicle using Matlab Simulink <i>Quang Thanh Nguyen</i>
P38	ICFMAS134	Two Advanced Non-Intrusive Methods for Velocity Distribution Measurement in Fluid Mechanics with Some Recent Research and Development <i>Nguyen Tat Thang</i>