





Turbo and Hydraulic Pumps/Motors (Part 1)			
13:30 - 15:00	Paper ID	Chair: Prof. Young-Seok Choi, Korea Institute of Industrial Technology, South Korea	
13:30 - 13:45	725	Matching Characteristics of Hydraulic and Booster Systems of an Ultra-High-Pressure Hydraulic-Driven Compressor Shengli Wang, Minghao Dai, Xiaoming Liu, and Yueping Yu	
13:45 - 14:00	734	Numerical Investigations of the Cavitation Performance and Pressure Fluctuations for the Mixed Flow Pump by Blade Modification  Weixiang Ye, Zhiyu Zhang, Xianwu Luo, and Hong Wang	
14:00 - 14:15	758	Numerical Study on the Impact of Slit Geometry in a Turbopump Inducer <b>Hyunsu Jeong, HaRam Oh, and Younjea Kim</b>	
14:15 - 14:30	773	Effect of Leading-Edge Cut Width in Non-Axisymmetric Vaned Diffusers on Rotating Stall in a Centrifugal Pump  Mikio Takahashi, Shinichiro Ejiri, and Masahiro Miyabe	
14:30 - 14:45	780	Transient Characteristics at Rapid Startup of a Centrifugal Pump  Teiichi Tanaka and Hiroki Hirano	
14:45 - 15:00	785	Study of Partial Guide Vanes on Performance Curve Instability in Impeller Pumps Zhenhua Han, Tim Schwarz, Gang Yang, Ji Pei, and Martin Böhle	
15:00 - 15:30		Tea-Break	
		Cavitation & Multi-Phase Flows (Part 2)	
15:30 - 17:00	Paper ID	Chair: Prof. Ling Zhou, Jiangsu University, China	
15:30 - 17:00 15:30 - 15:45	Paper ID 805	Chair: Prof. Ling Zhou, Jiangsu University, China  Experimental Investigation on the Cavitation Characteristics of a Jet Pump Cavitation Reactor at Full Operating Conditions  Tongshan Chai, Jiong Wang, Huaiyu Cheng, Zuti Zhang, and Xinping Long	
	•	Experimental Investigation on the Cavitation Characteristics of a Jet Pump Cavitation Reactor at Full Operating Conditions	
15:30 - 15:45	805	Experimental Investigation on the Cavitation Characteristics of a Jet Pump Cavitation Reactor at Full Operating Conditions  Tongshan Chai, Jiong Wang, Huaiyu Cheng, Zuti Zhang, and Xinping Long  Numerical Investigation of Impact Forces and Cavitation Dynamics on a Water-Entry Projectile	
15:30 - 15:45 15:45 - 16:00	805 826	Experimental Investigation on the Cavitation Characteristics of a Jet Pump Cavitation Reactor at Full Operating Conditions  Tongshan Chai, Jiong Wang, Huaiyu Cheng, Zuti Zhang, and Xinping Long  Numerical Investigation of Impact Forces and Cavitation Dynamics on a Water-Entry Projectile Seong-Ho Park, Van-Tu Nguyen, Warn-Gyu Park, and Jinyul Hwang  Simulation and Analysis of Damage to Material Surface Impacted by High-Speed Sediment-Laden Water Flow Based on the SPH-FEM Method	









		Fans, Blowers, and Compressors (Part 1)
13:30 - 15:00	Paper ID	Chair: Prof. Guoyi Peng, Nihon University, Japan
13:30 - 13:45	710	Study on the Thermal Flow Field of a Turbocharger Centrifugal Compressor  T. Kitamura, M. Harada, M. Osako, Y. Uramachi, and M. Ozaki
13:45 - 14:00	743	Rotordynamic Forces in a Mixed-Flow Pump with a Whirling Eccentric Impeller Tien-Dung Vuong, Youngkuk Yoon, Daehee Jeong, Taegyu Choi, and Seung Jin Song
14:00 - 14:15	784	Proper Orthogonal Decomposition of Unsteady Circumferential Pressure in a Supercritical Carbon Dioxide Centrifugal Compressor under Inlet Pressure Fluctuation  Zimu Yang, Hongsheng Jiang, Weilin Zhuge, Yuping Qian, and Yangjun Zhang
14:15 - 14:30	828	Impact of Blade Installation Angle on Aerodynamic Performance of Ducted Fans under High- Speed Conditions <b>Lihui Sun</b>
14:30 - 14:45	839	The Impact of Changing the Position and Width of Casing Treatment Downstream Slit on the Surge Characteristic of Centrifugal Compressors  Tomoki Ikegai
14:45 - 15:00	844	Bio-Inspired Mini Axial Fan for Thermal Management  Dhruv S. Kuvar and Venugopal Arumuru
15:00 - 15:30		Tea-Break
	D	esign, Optimization & Manufacturing (Part 2)
15:30 - 17:15	Paper ID	Chair: Prof. Yuka Iga, Tohoku University, Japan
15:30 - 15:45	726	Multidisciplinary Design Optimization of Centrifugal Compressors for Enhanced Stability and Isentropic Efficiency  Yu Tian and Guoyuan Ma
15:45 - 16:00	757	Measurement Model and Estimation of Energy Steam Consumption for an Industrial Boiler  Nguyen Tien Quang, Nguyen Duc Quyen, and Nguyen Duc Minh
16:00 - 16:15	793	A Study on Analyzing the Combustion Process in a Direct Injection Methane Engine by Modeling a Single Wiebe Function  Nguyen Hoang Nhan, Nguyen Long Chau, Jeongwoo Lee, and Tran Dang Quoc
16:15 - 16:30	809	Breakup Mechanism and Liquid Fragment Formation in the Atomizing Zone of a Multi- Channel Airblast Atomizer P.V.T. Nam, N.T. Kien, and P.X. Phuong
16:30 - 16:45	823	Effects of Soil Temperature and Pipe Thickness on Thermal Flow Characteristics in a Hydrogen Transfer Buried Pipe  Cheol-Jung Kang
16:45 - 17:00	849	Rotating Machine Fault Classification Using VAE-Augmented Deep Learning Thai-Hung Pham, Trong-Du Nguyen, Danh-Thanh-Binh Do, and Phong-Dien Nguyen
17:00 - 17:15	1006	Optimization of Finishing Parameters to Enhance Water Repellency and Durability of Water Resistance in 100% Polyester Fabric  Luu Thi Tho, Nguyen Thi Mai, and Duong Thi Phuong









	Hydrodynamic Turbines (Part 1)		
13:30 -15:00	Paper ID	Chair: Prof. Jun Yang, University of Shanghai for Science and Technology, China	
13:30 - 13:45	744	Effect of Sediment Concentration on Solid-Liquid Two-Phase Flow in a Francis-99 Turbine with Guide Vane  Kang Xu, Yulin Xue, Weihua Zhong, Ziyao Zhou, Jiayang Pang, and Xiaobing Liu	
13:45 - 14:00	745	Numerical Simulation of Off-Design Conditions Internal Flow and Pressure Pulsation Characteristics in Pump-Turbine under the Power Generation Case Hong Yu, Xiaobing Liu, Jiayang Pang, Jitao Liu, Yuanyuan Gang, and Shenhui Li	
14:00 - 14:15	778	Unstable Flow and Pressure Fluctuation in a Francis Turbine at Different Part-Load Conditions B. H. Liu, Q. W. Yan, C. Geng, and X. W. Luo	
14:15 - 14:30	783	Energy Dissipation Characteristics of a Reversible Mixed-Flow at Pump and Turbine Modes Based on Entropy Production Theory Junxia Lin, Ji Pei, Wenjie Wang, and Shouqi Yuan	
14:30 - 14:45	794	A Numerical Method to Determine Fluid-Added Parameters in Hydraulic Turbines  Michel J. Cervantes and Mehrdad Raisee	
14:45 - 15:00	807	Exploring the Optimal Design of Hydraulic Characteristics for a Pelton Turbine Nozzle  Yunfa Lin, Yongguang Cheng, Quanwei Liang, Haolin Tian, Kaicheng Deng, and Zhaoning Wang	
15:00 - 15:30		Tea-Break	
	Con	trol, Operation, Monitoring & Diagnosis (Part 2)	
15:30 -17:00	Paper ID	Chair: Prof. Martin Böhle, RPTU Kaiserslautern-Landau, Germany	
15:30 - 15:45	790	A Modified PID Controller for Aircraft Pitch Motion Control  Le Thanh Tung	
15:45 - 16:00	797	Research on Transient Characteristics of a Safety Valve Based on Multi-Physics Field Coupling Liang Yun, Chen Wenhua, Huang Jun, and Huang Weixi	
16:00 - 16:15	820	A Digital Twin-Based Supervisory Control System for a Pneumatically Actuated Cartesian Robot Giang-Nam Le, Thi-Tra-Giang Nguyen, Minh-Quoc Nguyen, Hoang-Huy Le, and Trung-Thanh Nguyen	
16:15 - 16:30	821	A Real-Time Simulation Method Using MATLAB Simulink and Simscape Library for a Pneumatically Actuated System  Giang-Nam Le, Thi-Tra-Giang Nguyen, Trung-Thanh Nguyen, and Ngoc-Duc Nguyen	
16:30 - 16:45	829	Measurement of Unsteady Volume Flow Rate Using a Venturi Flow Meter with Consideration of Unsteady Effects  Takuji Ikeda, Takumi Kimura, Teppei Onuma, Mnotohiko Nohmi, Byungjin An, and Donghyuk Kang	
16:45 - 17:00	891	A Simulation Study of a Spherical Air Bearing Used for Vibration Reduction  Truong Minh Duc, Nguyen Quang Lam, Nguyen Thi Linh, Nguyen Huu Nguyen Anh, Ngo Ich Long, and Vu Toan Thang	









Gas and Steam Turbines (Part 1)			
13:30 - 15:00	Paper ID	Chair: Prof. Shouqi Yuan, Jiangsu University, China	
13:30 - 13:45	754	Numerical Investigation on the Effect of Heterogeneous Condensation Induced by Nano- Droplet on Steam Turbine Performance G. Zhang, Q. Zhang, Q. Yao, Y. Yang, Z. Jin, and S. Dykas	
13:45 - 14:00	755	Experimental and Numerical Study of Moist Air Non-Equilibrium Condensation in a Nozzle Based on a Novel Model  Z. Jin, Y. Li, Q. Yao, M. Majkut, K. Smołka, S. Dykas, and G. Zhang	
14:00 - 14:15	759	Nozzle Performance Evaluation Considering Non-Equilibrium Condensation under Complex Weather Conditions for Guiding CAES Optimization  Y. Yang, Q. Yao, M. Majkut, K. Smołka, Z. Jin, S. Dykas, and G. Zhang	
14:15 - 14:30	779	A Study on Performance Improvement of a Radial Turbine at Partial-Load Conditions <b>Akihito Sayo, Shingo Shichiri, Yusei Miyamoto, and Toshimasa Miura</b>	
14:30 - 14:45	818	A New Surrogate Approach of Machine Learning to Predict Turbo Cascade Flow <b>Lu Yufeng, Chen Liu, and Dai Ren</b>	
14:45 - 15:00	825	Design of an Air-Cooled Thermal Management System for a 100 kW Turbine Generator Utilizing Compressor Mainstream  Kaiwen Jin, Bo Tang, Yuping Qian, Yangjun Zhang, Weilin Zhuge, Zhenyu Cheng, and Zhanming Ding	
15:00 - 15:30		Tea-Break	
		Propulsion (Part 2)	
15:30 - 17:00	Paper ID	Chair: Prof. Seung Jin Song, Seoul National University, South Korea	
15:30 - 15:45	751	Hybrid Physics-Data Approach for Transient In-Ground-Effect Thrust Prediction for Ducted Fan eVTOLs  Yuhang He, Yiwei Luo, Yuping Qian, and Yangjun Zhang	
15:45 - 16:00	791	Investigations on Aerodynamics of External Store and Safe Separation Trajectories Using the High-fidelity Analysis  Minh Hien Dao, Nhu Van Nguyen, Thien Bach Nguyen, Phi Minh Nguyen	
16:00 - 16:15	796	Optimal design of turboelectric propulsion system for B738 class aircraft  Xuankai Qiang	
16:15 - 16:30	819	Effects of Boundary Jet Flow on the Pressure Pulsation in a Waterjet Propulsion Device Chen L, Ma X.Q., Gao M.Z, Dai R.	
16:30 - 16:45	857	A simulation study on the impact of portioning fuel ratio in single cylinder spark ignition natural gas engine using double injectors  Nguyen Hoang Nhan, Luong Anh Tuan, Jeongwoo Lee, Tran Dang Quoc	









Computational Fluid Dynamics (Part 1)			
13:30 - 15:00	Paper ID	Chair: Prof. Kwang-Yong Kim, Inha University, South Korea	
13:30 - 13:45	813	Correction of a CFD Erosion Model Based on a Rotating Disk Wear Test  Hongjiang Duan, Long Wang, Dong Liu, Enhao Qi, Duo Ma, and Shuaihui Sun	
13:45 - 14:00	814	A Study on the Hydrodynamic Performance of Multiple Autonomous Underwater Vehicles Using CFD  Ngo Van He	
14:00 - 14:15	827	A Comparative Study of Hydrogen Flow and Thermal Behavior in Pipelines Using 1D and 3D Numerical Analysis  Ho-Jin Choi	
14:15 - 14:30	858	Computational Fluid Dynamic Modeling of a Frozen Beef Transport System  Duy Hung Vu and Thi Thu Hang Tran	
14:30 - 14:45	900	Collision of a Vortex Ring with a Wavy Sphere  Van Luc Nguyen, The Hoang Nguyen, Thi Dieu Thuy Phan, and Van Quang Anh Vo	
14:45 - 15:00	902	Comparison of Small Deep-Hole Pneumatic Probe Designs by Equivalent Electro-Pneumatic Modeling and CFD Simulation  Ta Thi Thuy Huong, Tran Thi Son Ha, Ha Minh Hien, Dong Thi Bao Ngoc, Le Minh Duc, Dinh Van Oai, and Vu Toan Thang	
15:00 - 15:30		Tea-Break	
	En	ergy Conversion and Storage Systems (Part 2)	
15:30 - 17:00	En Paper ID	ergy Conversion and Storage Systems (Part 2)  Chair: Prof. YounJea Kim, Sungkyunkwan University, South Korea	
15:30 - 17:00 15:30 - 15:45			
	Paper ID	Chair: Prof. YounJea Kim, Sungkyunkwan University, South Korea  Design and Simulation of an Integrated Dehumidification and Air-Conditioning System Utilizing Geothermal Energy	
15:30 - 15:45	Paper ID 775	Chair: Prof. YounJea Kim, Sungkyunkwan University, South Korea  Design and Simulation of an Integrated Dehumidification and Air-Conditioning System Utilizing Geothermal Energy  Ta Van Chuong, Nguyen Quoc Uy, Pham Quang Vu, and Nguyen Dinh Khuong  Performance Simulation of a Fuel Cell-Turbo Compound Electric Power System	
15:30 - 15:45 15:45 - 16:00	775 816	Chair: Prof. YounJea Kim, Sungkyunkwan University, South Korea  Design and Simulation of an Integrated Dehumidification and Air-Conditioning System Utilizing Geothermal Energy  Ta Van Chuong, Nguyen Quoc Uy, Pham Quang Vu, and Nguyen Dinh Khuong  Performance Simulation of a Fuel Cell-Turbo Compound Electric Power System  Chuang Xu, Hongsheng Jiang, Weilin Zhuge, Yuping Qian, and Yangjun Zhang  Development of Renewable Energy in Vietnam	
15:30 - 15:45 15:45 - 16:00 16:00 - 16:15	775 816 885	Chair: Prof. YounJea Kim, Sungkyunkwan University, South Korea  Design and Simulation of an Integrated Dehumidification and Air-Conditioning System Utilizing Geothermal Energy  Ta Van Chuong, Nguyen Quoc Uy, Pham Quang Vu, and Nguyen Dinh Khuong  Performance Simulation of a Fuel Cell-Turbo Compound Electric Power System  Chuang Xu, Hongsheng Jiang, Weilin Zhuge, Yuping Qian, and Yangjun Zhang  Development of Renewable Energy in Vietnam  Tuan Phan Anh  Investigation of a Fluid Diode for Wave Energy Conversion: Effect of Cross-Sectional Shape of Ring-Shaped Obstacles	
15:30 - 15:45 15:45 - 16:00 16:00 - 16:15	775 816 885	Chair: Prof. YounJea Kim, Sungkyunkwan University, South Korea  Design and Simulation of an Integrated Dehumidification and Air-Conditioning System Utilizing Geothermal Energy  Ta Van Chuong, Nguyen Quoc Uy, Pham Quang Vu, and Nguyen Dinh Khuong  Performance Simulation of a Fuel Cell-Turbo Compound Electric Power System  Chuang Xu, Hongsheng Jiang, Weilin Zhuge, Yuping Qian, and Yangjun Zhang  Development of Renewable Energy in Vietnam  Tuan Phan Anh  Investigation of a Fluid Diode for Wave Energy Conversion: Effect of Cross-Sectional Shape of Ring-Shaped Obstacles  Rokuto Mizutaki  A Study of the Thermal Management System for Lithium-Ion Batteries in Fast Charging/Discharging Processes  Vinh Quang Huynh, Ngoc Minh Nguyen, Tien Thua Nguyen, Minh Tien Le, and Thanh-Long	









Turbo and Hydraulic Pumps/Motors (Part 3)		
08:30 - 10:00	Paper ID	Chair: Prof. Xianwu Luo, Tsinghua University, China
08:30 - 08:45	700	Experimental Study on Performance Deterioration of a Turbopump with an Inducer Due to Precipitation of Dissolved Gas
06.30 - 06.43	786	Yohei Ueno, Hayato Kitamura, Wataru Ikeda, Satoshi Watanabe, Yohei Tanaka, Akira Sakata, and Yasushi Matsunaga
08:45 - 09:00	810	Transferability Investigation of the Tandem Impeller on the Performance of a Low Specific Speed Centrifugal Pump
		Gang Yang, Desheng Zhang, Zhenhua Han, and Martin Böhle
09:00 - 09:15	822	Suppression of Cavitation in an Axial-Flow Pump by Using the Groove Technique on the Impeller Tip
		Duc-Anh Nguyen, Deokju Sung, Youn-Sung Kim, and Jin-Hyuk Kim
09:15 - 09:30	830	Analysis of Rub Motion Induced by Aerodynamic Forces within a High-Pressure Turbomachinery Rotor System
		Xiao-Ming Liu, Yueping Yu, Sibing Hu, Chao Chang, and Shunzeng Wang
09:30 - 09:45	867	Design and Fabrication of a Hydraulic Butt Welding Equipment System for Dissimilar Plastic Pipes
		Nguyen Tien Duong
00:45 40:00	070	Theoretical Study on the Efficiency of Axial Flow Submersible Pumps Considering the
09:45 - 10:00	876	Influence of Diffuser Cone Angle  Nguyen Minh Tuan and Nguyen Thi Nho
10:00 - 10:30		Tea-Break
		Wind and Flow Turbines (Part 4)
10:30 - 12:15	Paper ID	Chair: Prof. Sung Goon Park, Seoul National University of Science and Technology, South Korea
10:30 - 10:45	815	Impact of a Circular Cylinder Deflector on the Performance of a Bach-Type Savonius Turbine Minh Banh Duc, Hung Tran The, Truong Dinh Cong, Ba Dang The, Phuong Nguyen Thi Thu, Thuan Truong Van, Minh Do Van, Anh Truong Viet, Duc Dinh Nguyen, Huy Tran Dang, and Anh Le Dinh
10:45 - 11:00	833	An Al-Based Approach for Prognostics and Health Management of Wind Turbines <b>Do Manh Hung</b>
11:00 - 11:15	836	Robust Control for Maximizing Power Production of Offshore Wind Turbines in Low-Speed Wind Conditions  Hoang Minh Tien, Le Kieu Hiep, Phan Thanh Tung, and Do Manh Hung
11:00 - 11:15 11:15 - 11:30	836 837	Wind Conditions
		Wind Conditions Hoang Minh Tien, Le Kieu Hiep, Phan Thanh Tung, and Do Manh Hung  Safe and Robust Speed Control for Large-Scale Wind Turbines in High-Speed Wind Regions
11:15 - 11:30	837	Wind Conditions Hoang Minh Tien, Le Kieu Hiep, Phan Thanh Tung, and Do Manh Hung  Safe and Robust Speed Control for Large-Scale Wind Turbines in High-Speed Wind Regions Nguyen Huu Thang, Do Cao Trung, Nguyen Duc Duong, and Do Manh Hung  Evolution of Value and Technological Advancement of Wind Resource Assessment Throughout the Lifecycle of a Wind Farm
11:15 - 11:30 11:30 - 11:45	837 855	Wind Conditions Hoang Minh Tien, Le Kieu Hiep, Phan Thanh Tung, and Do Manh Hung  Safe and Robust Speed Control for Large-Scale Wind Turbines in High-Speed Wind Regions Nguyen Huu Thang, Do Cao Trung, Nguyen Duc Duong, and Do Manh Hung  Evolution of Value and Technological Advancement of Wind Resource Assessment Throughout the Lifecycle of a Wind Farm Zhang Xiaowen  A Blade Torsional Deformation Measurement Method for Large-Scale Wind Turbine Blades by Stereo Digital Image Correlation (Stereo-DIC)









		Fans, Blowers, and Compressors (Part 3)
08:30 - 10:15	Paper ID	Chair: Dr. Van Bo Nguyen, Institute of High-Performance Computing (IHPC), Agency for Science, Technology and Research, Singapore
08:30 - 08:45	879	Research and Evaluation of the Efficiency of the Method of Manufacturing Axial Fans Using Centrifugal Casting Technology  Vu Dinh Dang, Minh Tuan Nguyen, and Van Xo Nguyen
08:45 - 09:00	894	Numerical Study of the Relationship between the Hub-to-Tip Diameter Ratio and the Performance of Steam Centrifugal Compressors in a Two-Stage MVR System  Jun-Beom Kim, Hyeon-Mo Yang, Kyong-Yong Lee, Joon-Yong Yoon, and Young-Seok Choi
09:00 - 09:15	950	Research on the Impact of a Curved Volute Fan on the Performance of an Integrated Air Duct System Yanpeng Ma, Xiaokang Peng, Jiwu Jiang, Meng Hao, and Xiaomin Liu
09:15 - 09:30	952	Study on the Effects of the Structure of the Mesh Cover on the Aerodynamic Performance of a Fan Wu Xianpeng, Liu Xiaomin, Wei Lai, Luo Dan, and Kang Ruixiang
09:30 - 09:45	988	Numerical Aeroacoustic Characteristics of an electric Ducted Propulsion Fan with Surface Roughness Numerical Aeroacoustic Characteristics of an Electric Ducted Propulsion Fan with Surface Roughness G.D. Pham, T.D. Nguyen, H.Q. Chu, B.N. Nguyen, T.S. Vu, V.D. Vu, T.K. Nguyen, D.A. Le, T.H. Tran, X.G. Nghiem, and C.T. Dinh
09:45 - 10:00	989	Advanced Experimental and Computational Investigation of Rotor Dynamics in Axial Compressors: A Comparative Study on Aluminum 7050 and Titanium Ti-6Al-4V  Nhat Minh Hoang, Minh Duc Ha, and Cong Truong Dinh
10:00 - 10:15	1000	CFD-Based Performance Prediction and Blade Count Optimization for a High-Pressure Centrifugal Fan with Perpendicular Blade Geometry  Toan Van Nguyen, Quyen Duc Vu, Huy Chuong Tran, Duc Xuan Vu, Manh Duc Nguyen, Manh Hung Nguyen, and Sang Truong Ha
10:15 - 10:30		Tea-Break
		Tribology, Seals and Bearings (Part 4)
10:30 - 12:15	Paper ID	Tribology, Seals and Bearings (Part 4)  Chair: Prof. Ich Long NGO, Hanoi University of Science and Technology, Vietnam
10:30 - 12:15 10:30 - 10:45	Paper ID 795	
	-	Chair: Prof. Ich Long NGO, Hanoi University of Science and Technology, Vietnam  Research on Evaluating the Braking Efficiency of 1.25-Ton Trucks on Nonlinear Bumpy Roads
10:30 - 10:45	795	Chair: Prof. Ich Long NGO, Hanoi University of Science and Technology, Vietnam  Research on Evaluating the Braking Efficiency of 1.25-Ton Trucks on Nonlinear Bumpy Roads  Danh Nguyen Thanh, Phat Khau Tan, and Huu Vo Trong  Design of a Shaft Sealing Test Bench
10:30 - 10:45 10:45 - 11:00	795 868	Chair: Prof. Ich Long NGO, Hanoi University of Science and Technology, Vietnam  Research on Evaluating the Braking Efficiency of 1.25-Ton Trucks on Nonlinear Bumpy Roads  Danh Nguyen Thanh, Phat Khau Tan, and Huu Vo Trong  Design of a Shaft Sealing Test Bench  Qinzhao Zhang and Hong Wang  Dynamic Characteristics of a Thrust Bearing in a 300 MW Suspended Pumped Hydroelectric Generator: A Numerical Investigation of Two Models
10:30 - 10:45 10:45 - 11:00 11:00 - 11:15	795 868 881	Chair: Prof. Ich Long NGO, Hanoi University of Science and Technology, Vietnam  Research on Evaluating the Braking Efficiency of 1.25-Ton Trucks on Nonlinear Bumpy Roads  Danh Nguyen Thanh, Phat Khau Tan, and Huu Vo Trong  Design of a Shaft Sealing Test Bench  Qinzhao Zhang and Hong Wang  Dynamic Characteristics of a Thrust Bearing in a 300 MW Suspended Pumped Hydroelectric Generator: A Numerical Investigation of Two Models  Shenming Ren, Yuan Zheng, Kui Tang, and Yuquan Zhang  Deepwater X-Tree Spring Seal Structure Design and Seal Performance Analysis
10:30 - 10:45 10:45 - 11:00 11:00 - 11:15	795 868 881 887	Chair: Prof. Ich Long NGO, Hanoi University of Science and Technology, Vietnam  Research on Evaluating the Braking Efficiency of 1.25-Ton Trucks on Nonlinear Bumpy Roads Danh Nguyen Thanh, Phat Khau Tan, and Huu Vo Trong  Design of a Shaft Sealing Test Bench Qinzhao Zhang and Hong Wang  Dynamic Characteristics of a Thrust Bearing in a 300 MW Suspended Pumped Hydroelectric Generator: A Numerical Investigation of Two Models Shenming Ren, Yuan Zheng, Kui Tang, and Yuquan Zhang  Deepwater X-Tree Spring Seal Structure Design and Seal Performance Analysis Zhang Hong, Long Shengjun, Huang Yi, Feng Ding, Lin Yaojun, Wang Gaolei, and Liu Kuo  Reliability and Lifetime Evaluation of Metro Train Wheelsets Due to Wear and Tear in Operation on the Cat Linh - Ha Dong Line Toan Duc Nguyen and Tuan Duc Do  Reliability Evaluation of the Crankshaft Bearing System in D19E Locomotive Engines Used in Vietnam Railways
10:30 - 10:45 10:45 - 11:00 11:00 - 11:15 11:15 - 11:30	795 868 881 887	Chair: Prof. Ich Long NGO, Hanoi University of Science and Technology, Vietnam  Research on Evaluating the Braking Efficiency of 1.25-Ton Trucks on Nonlinear Bumpy Roads Danh Nguyen Thanh, Phat Khau Tan, and Huu Vo Trong  Design of a Shaft Sealing Test Bench Qinzhao Zhang and Hong Wang  Dynamic Characteristics of a Thrust Bearing in a 300 MW Suspended Pumped Hydroelectric Generator: A Numerical Investigation of Two Models Shenming Ren, Yuan Zheng, Kui Tang, and Yuquan Zhang  Deepwater X-Tree Spring Seal Structure Design and Seal Performance Analysis Zhang Hong, Long Shengjun, Huang Yi, Feng Ding, Lin Yaojun, Wang Gaolei, and Liu Kuo  Reliability and Lifetime Evaluation of Metro Train Wheelsets Due to Wear and Tear in Operation on the Cat Linh - Ha Dong Line Toan Duc Nguyen and Tuan Duc Do  Reliability Evaluation of the Crankshaft Bearing System in D19E Locomotive Engines Used in









Hydrodynamic Turbines (Part 3)		
08:30 - 10:00	Paper ID	Chair: Prof. Chenhao Li, Xi'an University of Technology, China
08:30 - 08:45	812	Cavitation-Induced Gate Vibration and Elimination in a Sediment Flushing Deep Tunnel of a Dam  Xupeng Chen, Bin Liu, Jianling Lai, Haihong Zhang, Xiaohui Liu, Zhiren Ji, Haolin Tian, Yunfei Chang, and Yongguang Cheng
08:45 - 09:00	824	Optimizing Quick and Safe Start-Up Mode of a Francis Turbine Using Reinforcement Learning  T. Mukai, S. Endo, M. Nakazono, and K. Tezuka
09:00 - 09:15	840	Numerical Simulation Study on Sediment Erosion Characteristics of a Pelton Turbine Yifang Yuan, Siyu Wang, Yue Fang, Yujie Gao, Alfredo Iranzo, Lei Han, Deyou Li, and Hongjie Wang
09:15 - 09:30	842	Impact of Downstream Deflector Positions on the Performance of a Savonius Hydrokinetic Turbine  Adarsh Parasuram, Paresh Halder, and Abdus Samad
09:30 - 09:45	853	Characterization of Energy Loss in Radial Inflow Turbines via the Enthalpy Gradient Magnitude Bochen Wan, Wang Zheng, Zhen Zhang, and Qiaorui Si
09:45 - 10:00	859	CFD-Based Parametric Analysis of Slope and Cone Geometry for Micro-Hydro Turbines in the Punjab Canal Irrigation Network  Muhammad Farhan, Adnan Qamar, Waqar Mehmood, and Muhammad Farooq
10:00 - 10:30		Tea-Break
		Microfluidics (Part 4)
10:30 - 12:15	Paper ID	Chair: Prof. Martin Böhle, RPTU Kaiserslautern-Landau, Germany
10:30 - 10:45	772	An Electrothermal-Electrostatic Integrated Microgripper with a Self-Locking Mechanism  Nguyen Ngoc Minh and Pham Hong Phuc
10:45 - 11:00	808	Simulation of Flow Boiling Heat Transfer Performance of Zeotropic Mixtures in Microchannels Zhou Hang, Cheng Minghao, Zhang Xiaosong, and Liu Jian
11:00 - 11:15	872	A Numerical Study on Optimizing the Electro-Hydraulic Performance of Electro-Conjugate Fluid Micropumps in Series  Do Van Tran, Vu Toan Thang, and Ngo Ich Long
11:15 - 11:30	892	Measurement of Liquid Film Thickness in the Vaporizer of a Microturbine Using Shadowgraph Imaging  Huu Ha Nguyen, Duc Manh Vu, Quoc Quan Nguyen, and Xuan Phuong Pham
11:30 - 11:45	921	Enabling Biomedical and Environmental Applications Through Neutralized Electrohydrodynamics  Van Thanh Dau and Trung Hieu Vu
11:45 - 12:00	958	Particle Deposition in a Continuous Microfluidic Multi-Stage Stirrer via EDEM-FLUENT Coupling  Shaodong Qin
12:00 - 12:15	971	A 3D Numerical Simulation Study of Size-Based Particle Separation in a Deterministic Lateral Displacement Array with Different Inlet Flow Angles  Hue T. Pham and Van-Sang Pham









Gas and Steam Turbines (Part 3)		
08:30 - 09:30	Paper ID	Chair: Dr. Cong-Truong DINH, Hanoi University of Science and Technology, Vietnam
08:30 - 08:45	838	Numerical Investigation of Unsteady Flow Characteristics in a Partial Admission Supercritical CO <sub>2</sub> Axial-Flow Turbine Zhuo Hu, Hongsheng Jiang, Weilin Zhuge, Yuping Qian, and Yangjun Zhang
08:45 - 09:00	884	Effect of Outlet Hole Geometry on Film Cooling Performance of Gas Turbine Blades  Tuong Linh Nha
09:00 - 09:15	979	Aeromechanic Numerical Prediction of a Composite Ducted Fan Blade in eDPF Thai-Son Vu, Ngoc-Bon Le, Hong-Quan Luu, Gia-Diem Pham, The-Mich Nguyen, Kwang-Yong Kim, and Cong-Truong Dinh
09:15 - 09:30	982	Fatigue Analysis of a PW-E3 Turbine Vane Using a Coupled Thermal-Fluid-Structural Approach Le Thi Tuyet Nhung, Nguyen Ngoc Hai, Vu Dinh Quy, and Frédéric Plourde
10:00 - 10:30		Tea-Break
		Turbo and hydraulic Pumps/Motors (Part 4)
10:30 - 12:15	Paper ID	Chair: Prof. Ji Pei, Jiangsu University, China
10:30 - 10:45	880	Application of a Rortex-Based Method for Hydraulic Loss Assessment in a Pump-Turbine Lianchen Xu, Yuquan Zhang, and Yuan Zheng
10:45 - 11:00	886	Multi-Objective Intelligent Optimization of Guide-Vane Closure Scheme for Pump-Turbines During Pump Power Trip Xiaolong Fu, Yong Chen, Chunjie Li, Deyou Li, Jialiang Yang, and Hongjie Wang
11:00 - 11:15	888	Research on Structural Strength for a High-Temperature Double-Suction Pump Based on Thermal-Flow-Structure Coupling  Min He
11:15 - 11:30	893	Accurate Position Tracking Control for a Hydraulic Cylinder with Electro-Hydraulic On/Off Valves  Ngoc Hai Nguyen, Long Loc Ho, Khanh Duong Tran, Van Thuan Truong, and Xuan Bo Tran
11:30 - 11:45	897	Investigation of Impeller Backflow-Triggered Rotating Stall Mechanisms in a Pump Turbine Guide Vane Cascade  Junzhu Wang, Jun Yang, Xuanying Cheng, Yingying Zheng, Leren Tao, and Xiaohua Liu
11:45 - 12:00	903	Robust Position Control of an Electro-Hydraulic Servo Motor System with Friction Compensation  Pham Phu Phung, Trung Hieu Doan, The Mich Nguyen, and Xuan Bo Tran
12:00 - 12:15	1007	Study on the Energy Conversion Mechanism of Gas-Liquid Two-Phase Flow in Multistage Centrifugal Pumps Based on Entropy Production Theory  Xianglong Wu, Weidong Shi, Yongfei Yang, Linwei Tan, and Yupeng Cao
	1	









	Computational Fluid Dynamics (Part 3)				
08:30 - 10:00	Paper ID	Chair: Dr. Ujjwal Shrestha, Mokpo National University, South Korea			
08:30 - 08:45	905	Near-Wall Interactions and Instability Dynamics of a Descending Trailing Vortex Pair  Dinh Thang Nguyen, The Hoang Nguyen, Van Quang Anh Vo, and Van Luc Nguyen			
08:45 - 09:00	913	Enhanced Lattice Boltzmann via Vorticity  Hao Liu			
09:00 - 09:15	930	Study on the Effect of Fins on the Hydrodynamics of a Swath  Hoang Cong Liem and Ngo Van He			
09:15 - 09:30	935	Prediction of Aerodynamic Stability Derivatives Using Unsteady Computational Fluid Dynamics <b>Trung-Huy Nguyen and Quoc-Huy Vu</b>			
09:30 - 09:45	936	Aerodynamic Characteristics Survey of Wind Turbine Blade Airfoils: S826, S825, S830, and S809  Le Thi Tuyet Nhung, Vu Dinh Quy, Nguyen Lam Tung, and Le Minh Duc			
09:45 - 10:00	937	Study on the Effect of Wing Sweep Angle on Missile Aerodynamics at Various Angles of Attack and Velocity Ranges  Le Thi Tuyet Nhung, Vu Dinh Quy, and Nguyen Duc Trung			
10:00 - 10:15	965	Numerical Investigation of a Variable Mach Number Supersonic Wind Tunnel Nozzle  Duc-Bao Pham, Hoang-Quan Chu, Quang-Hai Nguyen, Dong Nguyen, Gia-Diem Pham, and  Cong-Truong Dinh			
10:15 - 10:30		Tea-Break			
		Hydrodynamic Turbines (Part 4)			
10:30 - 12:15	Paper ID	Chair: Prof. Baoshan Zhu, Tsinghua University, China			
10:30 - 10:45	908	Analysis of Cavitation Vortex Dynamics in a Francis Turbine under Variable Operating Conditions  Ujjwal Shrestha, Seung-Jun Kim, Jungwan Park, Kweon-Hoo Ko, and Young-Do Choi			
10:45 - 11:00	923	A Numerical Study of Sediment Erosion on Guide Vanes of Francis Turbines  Koichi Yonezawa, Teruto Hirayama, Daisuke Suzuki, and Kazuyasu Sugiyama			
11:00 - 11:15	925	Analysis of the Impact of Different Draft Tube Cone Diameters on the Runner Modal Properties of a Francis Turbine  Linwei Li, Xiao Liu, Xuesong Li, Qi Sun, Yantian Wang, and Peijian Zhou			
11:15 - 11:30	928	Effects of Swirl Flow and Cavitation Number on Diffuser Effect and Cavitation Surge in a Hydro Turbine Draft Tube  Kazuki Kodama, Mizuki Hamaguchi, Kazuyoshi Miyagawa, Takahiro Nakashima, and Yasuyuki Enomoto			
11:30 - 11:45	929	Relation between Cavitation and Strouhal Number in the Draft Tube Vortex of a Francis Turbine  T. Yamanaka and K. Miyagawa			
11:45 - 12:00	920	An Improved Mode Selection Criterion for Hankel-DMD and an Application in the Pressure Pulsation Signal of a Water Pump Turbine  Tengjiao Guo, Xu Han, Ran Tao, and Ruofu Xiao			









Cavitation & Multi-Phase Flows (Part 5)			
13:30 - 14:45	Paper ID	Chair: Prof. Michel Cervantes, Luleå University of Technology, Sweden	
13:30 - 13:45	895	Influence of Angle of Attack on the Thermodynamic Suppression Effect of Tip Leakage Vortex Cavitation Arising in a Twisted Hydrofoil Koki Tamura and Yuka Iga	
13:45 - 14:00	915	Transient Oscillatory Characteristics of Cavitation Developed in a Liquid Rocket Inducer Shoya Ohkura	
14:00 - 14:15	918	Experimental Investigation of the Bubble Slippage Mechanism in Gas-Liquid Two-Phase Flow of a Converging-Diverging Nozzle  Hayato Wada, Taiki Takamine, Shin-ichi Tsuda, and Satoshi Watanabe	
14:15 - 14:30	951	Energy Loss Characteristics of Flow in the Narrow Gap of a Horizontal Eccentric Annulus Based on Entropy Production Theory  Shi Minghao, Shi Huaizhong, He Wenhao, and Wang Yongqi	
14:30 - 14:45	1001	Numerical Simulation of Hydrodynamic and Cavitation Effects for High-Speed Projectiles in Water  Hieu Manh Vu, Chien Van Vu, and Sang Truong Ha	
14:45 - 15:30		Tea-Break	
	1	Turbo and Hydraulic Pumps/Motors (Part 6)	
15:30 - 17:15	Paper ID	Chair: Prof. Tao Lang, Jiangsu University, China	
15:30 - 15:45	927	Analysis of the Effect of the Reflux Hole on Unsteady Flow in a Self-Priming Pump  Shangxian Qiu, Linwei Li, Xuesong Li, Jiansheng Huang, Zhibing Zhang, Hongteng Wang,	
		and Peijian Zhou	
15:45 - 16:00	938		
15:45 - 16:00 16:00 - 16:15	938 955	and Peijian Zhou  Optimization of a Mixed Flow Pump Impeller with a Semi-Open Casing to Improve Hump Characteristics  Ujjwal Shrestha and Young-Do Choi  Research on a Wide-Efficiency Centrifugal Pump Based on the Vane Placement Angle Integral Method	
		and Peijian Zhou  Optimization of a Mixed Flow Pump Impeller with a Semi-Open Casing to Improve Hump Characteristics  Ujjwal Shrestha and Young-Do Choi  Research on a Wide-Efficiency Centrifugal Pump Based on the Vane Placement Angle	
16:00 - 16:15	955	and Peijian Zhou  Optimization of a Mixed Flow Pump Impeller with a Semi-Open Casing to Improve Hump Characteristics  Ujjwal Shrestha and Young-Do Choi  Research on a Wide-Efficiency Centrifugal Pump Based on the Vane Placement Angle Integral Method  Wang Zhewen, Li Jiejun, Hou Duohua, Wang Xiuli, and Wu Maojing  Performance Enhancement of a Submersible Centrifugal Pump Using Numerical Methods	
16:00 - 16:15 16:15 - 16:30	955 960	and Peijian Zhou  Optimization of a Mixed Flow Pump Impeller with a Semi-Open Casing to Improve Hump Characteristics  Ujjwal Shrestha and Young-Do Choi  Research on a Wide-Efficiency Centrifugal Pump Based on the Vane Placement Angle Integral Method  Wang Zhewen, Li Jiejun, Hou Duohua, Wang Xiuli, and Wu Maojing  Performance Enhancement of a Submersible Centrifugal Pump Using Numerical Methods  Arihant Sonawat, Jin-Wook Lee, and Youn-Sung Kim  Numerical Investigation of Adverse Pressure Gradient Propagation Characteristics in a HRCP	









	Design, Optimization & Manufacturing (Part 5)			
13:30 - 15:15	Paper ID	Chair: Prof. Thi Kim Dung Hoang, Hanoi University of Science and Technology, Vietnam		
13:30 - 13:45	850	Design of an Automated Wooden Pallet Nailing System for Small and Medium-Sized Workshops  Giang-Nam Le, Minh-Tu Pham, Cong-Minh Le, and Duc-Cuong Tran		
13:45 - 14:00	863	Optimization of the Structure of a Flexible Drilling Tool Based on the Response Surface Method Han Chen, Huaizhong Shi, Ziyan Zhao, Wenhao He, and Chao Xiong		
14:00 - 14:15	878	A Review of Blockage and Wall Effects on Flow-Induced Vibrations of Bluff Bodies  Md. Mahbub Alam		
14:15 - 14:30	882	Calculation, Design, and Manufacturing Model of Sea Salt Production <b>Luong Thi Minh Chau and Hoang Duc Lien</b>		
14:30 - 14:45	883	Testing and Evaluation of the Productivity of a Sea Salt Production Model Using E3D Technology <b>Luong Thi Minh Chau and Hoang Duc Lien</b>		
14:45 - 15:00	917	Optimization of High-Efficiency Nozzles and Structural Parameters for Hydraulic Sandblasting Perforation in Deep Wells  Ziang Gu, Huaizhong Shi, Wenhao He, Chao Xiong, and Ziyan Zhao		
15:00 - 15:15	1003	Design and Testing of Cooling Systems for a Test Chamber for Small UAVs  T. K. D. Hoang, Q. C. Than, and T. H. Dinh		
15:15- 15:30		Tea-Break		
		Hydrodynamic Turbines (Part 6)		
15:30 - 17:15	Paper ID	Chair: Prof. Ling Zhou, Jiangsu University, China		
15:30 - 15:45	931	Effect of Upstream Pipe Length on Cavitation Flow Instability in a Hydroturbine Draft Tube  Mizuki Hamaguchi, Kazuki Kodama, Kazuyoshi Miyagawa, Takahiro Nakashima, and  Yasuyuki Enomoto		
15:45 - 16:00	947	Simulation Study of the Turbine Hydraulic Drive Performance of a Vortex Cuttings Cleaner with Improved Structure  Zhaowen Hu, Yiqun Zhang, Xinyu Wang, Yanjun Liu, Ya Liu, and Wei Wang		
16:00 - 16:15	957	Impact of Runner Diameter Variation on Operating Characteristics of Doubly-Fed Variable-Speed Pumped Storage Units Chunyang Gao, Sijia Sun, Xiangyang Yu, Haipeng Nan, Pengcheng Guo, Weixing Liu, and Shikang Shen		
16:15 - 16:30	959	Effect of Slope and Cone Parameters for a Micro-Hydro Turbine in the Punjab Canal System  Muhammad Farhan, Adnan Qamar, Waqar Mehmood, Muhammad Hammad Raza, and  Muhammad Farooq		
16:30 - 16:45	977	Optimal Flow Control of Rotating Vortex Rope Inside the Draft Tube of a Swirl Generator Based on Vorticity Minimization  Zeinab Seifi, Mehrdad Raisee, and Michel J. Cervantes		









Control, Operation, Monitoring & Diagnosis (Part 5)				
13:30 - 14:45	Paper ID	Chair: Dr. Duc Phuc TRUONG, Hanoi University of Science and Technology, Vietnam		
13:30 - 13:45	835	A Hardware-in-the-Loop Simulation System for Testing Electronic and Fuel Control Units of Gas Turbine Engines Nguyen Viet Linh		
13:45 - 14:00	854	Application of Voice Recognition Technology for Controlling Car Headlights and Windshield Wipers  Le Anh Tuan and Dam Bao Khiem		
14:00 - 14:15	865	A Fuzzy Logic Control Approach for Quality Improvement in Sulfuric Acid Systems Using CANopen, IoT, and OPC Network  Duc Duong Nguyen, Manh Hung Do, Ngoc Thanh Pham, and Thanh Tung Phan		
14:15 - 14:30	870	An Automatic Railway Bolts and Nuts Tightening Robot Using Image Processing and Deep Learning Algorithm  Bui Cao Son, Nguyen Huy Minh, Hoang Trung Kien, and Truong Duc Phuc		
14:30 - 14:45	909	Real-Time Fault Detection in BLDC Motors for Electric Aircraft Using Embedded Machine Learning Techniques  N.Q. Bien, S.T. Tan, Q.S. Dinh, H.Q. Chu, C.T. Dinh, and Q.N. Dinh		
14:45- 15:30		Tea-Break		
Computational Fluid Dynamics (Part 6)				
15:30 - 17:15	Paper ID	Chair: Prof. Weilin Zhuge, Tsinghua University, China		
15:30 - 17:15 15:30 - 15:45	Paper ID 970	Chair: Prof. Weilin Zhuge, Tsinghua University, China  Numerical Investigation of Added Mass and Damping of a Heaving Hydrofoil Using Force Decomposition  M.A. Bahrami, M. Raisee, and M.J. Cervantes		
	-	Numerical Investigation of Added Mass and Damping of a Heaving Hydrofoil Using Force Decomposition		
15:30 - 15:45	970	Numerical Investigation of Added Mass and Damping of a Heaving Hydrofoil Using Force Decomposition  M.A. Bahrami, M. Raisee, and M.J. Cervantes  Ground Effect on Turbulent Flow around a Delta Wing		
15:30 - 15:45 15:45 - 16:00	970 983	Numerical Investigation of Added Mass and Damping of a Heaving Hydrofoil Using Force Decomposition  M.A. Bahrami, M. Raisee, and M.J. Cervantes  Ground Effect on Turbulent Flow around a Delta Wing  Ngoc Nhi Nguyen, Viet Dung Duong, and Nguyen Dinh Duc  Hull Form Optimization for Vessels Using Particle Swarm Optimization and Computational Fluid Dynamics		









Propulsion (Part 5)				
13:30 - 15:00	Paper ID	Chair: Prof. Martin Böhle, RPTU Kaiserslautern-Landau, Germany		
13:30 - 13:45	898	Optimal Design of a Turboelectric Propulsion System for Boeing 737-800 Class Aircraft <b>Xuankai Qiang</b>		
13:45 - 14:00	904	Dynamics of the Hydraulic System Driving the Water Jet Propulsion Pump in Amphibious Vehicles		
		Duy Dat Nguyen, Tien Vi Nguyen, and Viet Tan Nguyen		
14:00 - 14:15	933	Some Research Results on an Air-Assisted Seeding Machine		
		Ngo Thi Hien, Chosa Tadashi, Tojo Seishu, and Nguyen Thanh Hai		
14:15 - 14:30	945	An Investigation on Improving the Ship Propeller Thrust Using an Asymmetrical Stator		
		Tuan Phan Anh and Long Ngo Ich		
14:30 - 14:45	948	Numerical Investigation on the Mechanisms of Wind Field-Induced Thrust Allocation Offset and Flow Field Distortion in Ducted Fans		
		Bo Tang, Kaiwen Jin, Hongsheng Jiang, Yuping Qian, Weilin Zhuge, and Yangjun Zhang		
14:45 - 15:00	980	Numerical Aero-Structural Analysis of an Electric Aerial Evacuation Platform for Urban Multi- Story Buildings		
		Hoang-Quan Chu, Tien-Dat Nguyen, Quang-Ngoc Dinh, Binh-Nguyen Nguyen, Thai-Son Vu, Trung-Kien Nguyen, Gia-Diem Pham, and Cong-Truong Dinh		









Energy Conversion and Storage Systems (Part 5)				
13:30 - 15:00	Paper ID	Chair: Dr. Van Bo Nguyen, Institute of High-Performance Computing (IHPC), Agency for Science, Technology and Research, Singapore		
13:30 - 13:45	949	Effect of Trailing Edge Plates on the Performance of a Wells Turbine for Wave Energy Conversion <b>Keiichi Yoshino</b>		
13:45 - 14:00	962	Enhancing Ammonia Cracking Efficiency with Model Predictive Control for Hydrogen Production Van Bo Nguyen, Vinh Do Xuan Nguyen, Boon Siong Neo, Ruiqin Shan, Shengwei Ma, Quang Tuyen Le, Arthur Teck-Bin Lim, and Chang Wei Kang		
14:00 - 14:15	986	Simulation Study on the Performance and Emission Characteristics of a Hydrogen-Fueled Port Injection Engine Pham Van Trong, H. D. Long, and N. D. Vinh		
14:15 - 14:30	987	Overview of the Influence of Injection Parameters on Hydrogen Distribution in the Combustion Chamber of Direct Hydrogen Injection Internal Combustion Engines: A Review T. A. Trung, D. M. Tuan, N. T. Cuong, and H. X. Nang		
14:30 - 14:45	990	Investigation of the Performance and Emission Characteristics of a 3TN63L Generator Engine Using AVL Cruise Software  Nguyen Nhu Thanh, Nguyen Tien Tan, Nguyen Duy Vinh, and Khong Vu Quang		

