# Program at Glance

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

<table>
<thead>
<tr>
<th>October 27</th>
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<tbody>
<tr>
<td><strong>07:30 - 08:00</strong></td>
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<td><strong>08:00 - 08:30</strong></td>
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<td><strong>08:30 - 12:00</strong></td>
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<td><strong>12:00 - 13:30</strong></td>
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<td><strong>13:30 - 14:30</strong></td>
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<tr>
<td>S1 Turbomachine &amp; Renewable Energy</td>
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<td><strong>14:30 - 15:00</strong></td>
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<td><strong>15:00 - 16:00</strong></td>
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<tr>
<td>S1 Turbomachine &amp; Renewable Energy</td>
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<td><strong>18:30 - 21:00</strong></td>
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<thead>
<tr>
<th>October 28</th>
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<tbody>
<tr>
<td><strong>09:00 - 10:00</strong></td>
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<tr>
<td>S1 Turbomachine &amp; Renewable Energy</td>
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<td><strong>15:30 - 16:30</strong></td>
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## Keynote Lectures
Main Hall, 10th Floor

### October 27

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00 - 08:30</td>
<td>Opening ceremony</td>
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<tr>
<td>08:30 - 12:00</td>
<td>Keynote Lectures</td>
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<tr>
<td></td>
<td><strong>Chair: Prof. NGUYEN The Mich</strong> (Hanoi University of Science and Technology)</td>
</tr>
<tr>
<td>08:30 - 09:00</td>
<td>Unsteady Swirl Flow Suppression in the Draft Tube of Francis Hydro Turbine Model by J-Groove</td>
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<tr>
<td></td>
<td><strong>Young-Do Choi</strong> (Mokpo National University, Korea)</td>
</tr>
<tr>
<td>09:00 - 09:30</td>
<td>Numerical and Experimental Investigation of Cavitation Instabilities in Turbopump in Liquid Propellant Rocket</td>
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<td></td>
<td><strong>Iga Yuka</strong> (Tohoku University, Japan)</td>
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<tr>
<td>09:30 - 10:00</td>
<td>Flow Analysis and Optimal Design of Fluid Machinery Based on Vortex Dynamics</td>
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<td></td>
<td><strong>Baoshan Zhu</strong> (Tsinghua University, China)</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Coffee break/Poster sessions</td>
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<tr>
<td>10:30 - 00:00</td>
<td>Keynote Lectures</td>
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<tr>
<td></td>
<td><strong>Chair: Prof. LE Anh Tuan</strong> (Hanoi University of Science and Technology)</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>An Adaptive Mesh Refinement Multi-grid Finite Element Method for Simulating Incompressible Unsteady Flows</td>
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<tr>
<td></td>
<td><strong>Hyoung-Gwon Choi</strong> (Seoul National University of Science and Technology, Korea)</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>The Dynamic Analysis and Control of Hydraulic Machine System and Industrial Robotic Manipulators</td>
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<td></td>
<td><strong>Yunn-Lin Hwang</strong> (National Formosa University, Taiwan)</td>
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<tr>
<td>11:30 - 12:00</td>
<td>Development of Preliminary Design for Tidal Power Plant at Kuching Barrage</td>
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<td><strong>Andrew Ragai Henry Rigit</strong> (Universiti Malaysia Sarawak, Malaysia)</td>
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### October 28

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>15:30 - 16:30</td>
<td>Closing Ceremony</td>
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</table>
**Parallel Sessions**  
**Room 923**  
**S1 - Turbomachine and Renewable Energy**

### October 27

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>13:30 - 14:30</td>
<td><strong>Chair: Hyoung Gwon Choi</strong> (Seoul National University of Science and Technology)</td>
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<tr>
<td>13:30 - 13:50</td>
<td>ICFMAS001: Aerodynamic Performances of a Transonic Axial Compressor with Rotor Hub Fillet</td>
<td></td>
<td>Hoang-Tung Vu, Dinh-Quy Vu, Cong-Tuong Dinh</td>
</tr>
<tr>
<td>14:10 - 14:30</td>
<td>ICFMAS004: Design and Optimization of a Wind Turbine Blade Working at Low Wind Speeds</td>
<td></td>
<td>Nguyen Cong Hao, Nguyen The Mich, Tran Van Tran</td>
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<tr>
<td>14:30 - 15:00</td>
<td><strong>Coffee break/Poster sessions</strong> (10th FL)</td>
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<tr>
<td>15:00 - 16:00</td>
<td><strong>Chair: Le Van Sy</strong> (Petro Vietnam University)</td>
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<tr>
<td>15:00 - 15:20</td>
<td>ICFMAS016: Evaluation of Performance and Wake Characteristics of Two-Bladed Tidal Stream Turbine Using Numerical Method</td>
<td>Nguyen Manh Hung, Tran Hong Ha, Hoang Anh Dung, Changjo Yang</td>
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<tr>
<td>15:20 - 15:40</td>
<td>ICFMAS022: Influences of Inlet Configuration on Flow Hydrokinetic Behavior in GLCC Separator</td>
<td>Le Van Sy, Dang Thuc Van</td>
<td></td>
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<tr>
<td>15:40 - 16:00</td>
<td>ICFMAS028: A Multi-Fidelity Model to Predict the Performance of Torpedo Propellers</td>
<td>Nguyen Anh Tuan, Vu Thanh Trung, Bui Duy Thinh</td>
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<tbody>
<tr>
<td>09:00 - 10:00</td>
<td><strong>Chair: Dang Ngoc Thanh</strong> (Le Quy Don Technical University)</td>
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<tr>
<td>09:00 - 09:20</td>
<td>ICFMAS030: An Approach to Study the Airflow over 3D Objects by the Vortex-lattice Method</td>
<td>Pham Thanh Dong, Nguyen Anh Tuan, Pham Vu Uy</td>
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</tr>
<tr>
<td>09:20 - 09:40</td>
<td>ICFMAS031: Numerical Method to Study Helicopter Main Rotor-fuselage Aerodynamic Interaction</td>
<td>Pham Thanh Dong, Nguyen Anh Tuan, Dang Ngoc Thanh, Pham Vu Uy</td>
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<tr>
<td>09:40 - 10:00</td>
<td>ICFMAS037: Constructing Computational Program to Determine Induced Torque Components on Helicopter Main Rotor Rotation Axis</td>
<td>Nguyen Khanh Chinh, Pham Vu Uy</td>
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October 27-28, 2018
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>10:00 - 10:30</td>
<td>Coffee break/Poster sessions</td>
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<tr>
<td>10:30 - 11:30</td>
<td><strong>Chair: Nguyen Thien Tong</strong> (Ho Chi Minh City University of Technology)</td>
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<tr>
<td>10:30 - 10:50</td>
<td>ICFMAS042: Suppression of the Swirl Flow in a Draft Tube of a Bulb Turbine Model by Optimum J-Groove Shape</td>
<td>Viet Luyen Vu, Young-Do Choi</td>
</tr>
<tr>
<td>10:50 - 11:10</td>
<td>ICFMAS054: Design Process of a Small-scale Wind Turbine for Water Pumping to Meet Household Needs</td>
<td>Ly Hung Anh</td>
</tr>
<tr>
<td>11:10 - 11:30</td>
<td>ICFMAS068: Optimal Design of Wind Turbine Blades using Vortex Theory</td>
<td>Tran Tien Anh</td>
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<tr>
<td>11:30 - 13:00</td>
<td>Lunch</td>
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<tr>
<td>13:00 - 14:00</td>
<td><strong>Chair: Le Quang</strong> (Hanoi University of Science and Technology)</td>
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<tr>
<td>13:40 - 14:00</td>
<td>ICFMAS080: Modeling the Characteristic Curve of Wind Turbine on Various Pitch Angle and Tip Speed Ratio</td>
<td>Phan Tran Hong Long, Ho Ngoc Dung, Ho Sy Mao</td>
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<tr>
<td>14:00 - 14:30</td>
<td>Coffee break/Poster sessions</td>
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<tr>
<td>14:30 - 15:30</td>
<td><strong>Chair: Nguyen Duc Cuong</strong> (Vietnam Aerospace Association)</td>
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<tr>
<td>14:30 - 14:50</td>
<td>ICFMAS113: Working Mode of Centrifuge Feed Pump Systems at the Coal Processing Plants in Quang Nin</td>
<td>Vu Nam Ngan, Vu Ngoc Tra</td>
</tr>
<tr>
<td>14:50 - 15:10</td>
<td>ICFMAS126: Numerical Simulation of the Contra-Rotating Propeller by using Ansys CFX</td>
<td>Vu Pham Duc Dung, Tran Tien Anh</td>
</tr>
<tr>
<td>15:10 - 15:30</td>
<td>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</td>
<td>Nguyen Minh Tuan, Nguyen Van Bay</td>
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</tbody>
</table>
Room 902  
S2 - Hydraulic/pneumatic Dynamics and Control

**October 27**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>13:30</td>
<td><strong>Chair:</strong> Nguyen Duc Hung (University of Tasmania)</td>
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<tr>
<td>13:30 - 13:50</td>
<td>ICFMAS021: Researching and Building Mathematical Models in order to Calculate and Design the Pneumatic Pressure Stabilizer Automatic Valve (Tang Xuan Long)</td>
</tr>
<tr>
<td>13:50 - 14:10</td>
<td>ICFMAS025: A Rapid Object-Oriented Process to Develop Controllers for Autonomous Underwater Vehicles (Ngo Van Hien, Pham Gia Diem)</td>
</tr>
<tr>
<td>14:10 - 14:30</td>
<td>ICFMAS026: A Hierarchical Implementation Model to Realize Cooperative Controllers of AUS-MAUVs (Nguyen Son Tung, Ngo Van Hien)</td>
</tr>
<tr>
<td>14:30 - 15:00</td>
<td>Coffee break/Poster sessions (10th FL)</td>
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<tr>
<td>15:00 - 16:00</td>
<td><strong>Chair:</strong> Young-Do Choi (Mokpo University)</td>
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<tr>
<td>15:00 - 15:20</td>
<td>ICFMAS035: Effect of Friction Models on Simulation of Hydraulic Steering System (Nguyen Van Lai, Tran Xuan Bo, Tran Khanh Duong)</td>
</tr>
<tr>
<td>15:20 - 15:40</td>
<td>ICFMAS039: Modified Controls Doubly Fed Induction Generator under Unbalanced Voltage Dip for Reduction of Current Harmonic with PI-ANN Controller (Hai Nguyen-Thanh)</td>
</tr>
<tr>
<td>15:40 - 16:00</td>
<td>ICFMAS043: Neural Networks Based Control for an Autonomous Underwater Vehicle Equipped with the Collective and Cyclic Pitch Propeller (Minh Q. Tran, Hung D. Nguyen)</td>
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<tr>
<td>09:00</td>
<td><strong>Chair:</strong> Ngo Van Hien (Hanoi University of Science and Technology)</td>
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<tr>
<td>09:00 - 09:20</td>
<td>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)</td>
</tr>
<tr>
<td>09:20 - 09:40</td>
<td>ICFMAS049: Ship Course Control by Integrating Neural Network with Modal Control Technique (Le Thanh Tung, Hoang Cong Liem)</td>
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<tr>
<td>09:40 - 10:00</td>
<td>ICFMAS052: The Calculation of the Pneumatic System Parameters of a Launcher for High Speed UAV (Vương Trung Anh, Nguyễn Đức Cường, Vũ Hòa Bình, Phạm Văn Hiệp, Trần Duy Duyên)</td>
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October 27-28, 2018
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<th>Time</th>
<th>Session Description</th>
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<td>10:00-10:30</td>
<td>Coffee break/Poster sessions</td>
<td>(10th FL)</td>
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<td>10:30-11:30</td>
<td>Chair: Le Van Hoc (Vietnam Maritime University)</td>
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<tr>
<td>10:30-10:50</td>
<td>ICFMAS065: Modeling and Simulating Specialized Vehicle Regenerative Braking System</td>
<td>Luyen Van Hieu, Ngo Sy Loc, Tran Khanh Duong, Pham Van Hai, Dong Minh Tu An</td>
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<tr>
<td>11:30-13:00</td>
<td>Lunch</td>
<td>(10th FL)</td>
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<tr>
<td>13:00-14:00</td>
<td>Chair: Yunn-Lin Hwang (National Formosa University)</td>
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<tr>
<td>13:40-14:00</td>
<td>ICFMAS102: Numerical Simulation of a Hydraulic Hoisting Actuator for Flat Gate of Irrigation Systems in Simhydraulics</td>
<td>Van-Thuan Truong, Tuan-Anh Dao</td>
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<td>(10th FL)</td>
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<td>Chair: Ngo Sy Loc (VinFPA)</td>
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<td>14:30-14:50</td>
<td>ICFMAS110: Coefficient Diagram Method for Velocity Control of Hydraulic Motors</td>
<td>Quang Hieu Ngo</td>
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<tr>
<td>15:10-15:30</td>
<td>ICFMAS129: An Approach to Analyze the Threshold Stability of Internal Gear Motors and Pumps</td>
<td>Trong Hao Pham, Toan Thang Le, Wenming Cheng, Van Trung Vu, Anh Ngoc Nguyen, Thuy Chi Nguyen</td>
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</table>
# Room 702

**S3 - Numerical Simulation and Modeling**

## October 27

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>13:30 - 14:30</td>
<td>Chair: Iga Yuka (Tohoku University)</td>
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<tr>
<td>13:30 - 13:50</td>
<td>ICFMAS008: Effects of Mesh on the Simulation of the 5.5 kW Centrifugal Fan of the Dong Tam Ltd</td>
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<td>Nguyen Ngoc Hoang Quan, Ngo Khanh Hieu</td>
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<tr>
<td>13:50 - 14:10</td>
<td>ICFMAS009: Propeller Simulation in Open-water Condition with SnappyHexMesh/OpenFOAM Mesh Generator</td>
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<td>Le Van Long, Mai Ngoc Luan, Ngo Khanh Hieu</td>
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<tr>
<td>14:10 - 14:30</td>
<td>ICFMAS017: The Application of DNS for the Research of the Appearance and Propagation of Nonstationary Disturbance Mach Wave</td>
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<td>Dinh Hoang Quan, Nguyen Quoc An</td>
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<tr>
<td>14:30 - 15:00</td>
<td>Coffee break/Poster sessions (10th FL)</td>
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<tr>
<td>15:00 - 16:00</td>
<td>Chair: Baoshan Zhu (Tsinghua University)</td>
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<tr>
<td>15:00 - 15:20</td>
<td>ICFMAS040: Comparison and Validation of Aerodynamic Prediction using Missile Datcom with CFD and Experimental</td>
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<td>Le Quoc Dinh, Vu Manh Hieu, Nhu Van Su, Dinh Tien Dung</td>
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<td>15:20 - 15:40</td>
<td>ICFMAS058: Impact of Flow Configuration inside Spray Drying Tower onDrying Efficiency and Product Quality</td>
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<td>Thi Thu Hang Tran, Maciej Jaskulski, Kieu Hiep Le, Evangelos Tsotsas</td>
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<td>15:40 - 16:00</td>
<td>ICFMAS059: A Numerical Investigation on Droplet Formation in Microfluidic Double T-junction under the Effects of Channel Depth</td>
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<td>Ich Long Ngo, Trung Dung Dang</td>
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<td>09:00 - 10:00</td>
<td>Chair: Ngo Khanh Hieu (Ho Chi Minh City University of Technology)</td>
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<tr>
<td>09:00 - 09:20</td>
<td>ICFMAS062: An Adaptive Coupled Level Set/Volume of Fluid Method for Simulation of Multiphase Flows on Unstructured Grids</td>
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<tr>
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<td>Long Cu Ngo, Hyoung Gwon Choi</td>
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<tr>
<td>09:20 - 09:40</td>
<td>ICFMAS070: A Study of Finite Element Method for Fluid-Structure Interaction on Large Deformation Using Spring Analogy Method and Delaunay Triangulation</td>
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<td>Sang T. Ha, Hieu V. Vu, Hyoung-Gwon Choi</td>
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<td>09:40 - 10:00</td>
<td>ICFMAS071: Numerical Simulation of Cavitation Flow with Thermodynamic Effects of Cavitation</td>
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<td>Anh Dinh Le, Yuka Iga</td>
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<td>10:00</td>
<td>Coffee break/Poster sessions</td>
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<td>10:30</td>
<td>Chair: Truong Viet Anh</td>
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<tr>
<td>10:30</td>
<td>ICFMAS096: Developing New Design of a Top-lid Updraft Biomass Cookstove by CFD Modeling</td>
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<td>10:50</td>
<td>ICFMAS100: A Study on Ions Transports Through Charged Nanopores</td>
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<td>11:10</td>
<td>ICFMAS106: Discontinuous Galerkin for Advection–Diffusion Equation by Combining Recovery-based Scheme and Interface-Centered Binary-Reconstruction Scheme</td>
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<td>11:30</td>
<td>Lunch</td>
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<tr>
<td>13:00</td>
<td>Chair: Truong Nguyen Luan Vu</td>
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<tr>
<td>13:00</td>
<td>ICFMAS108: Study on Computation of Aerodynamic Force Acting on Bus in Crosswind Conditions by Using CFD</td>
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<td>14:00</td>
<td>Coffee break/Poster sessions</td>
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<td>14:30</td>
<td>Chair: Duong Ngoc Hai</td>
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<tr>
<td>14:30</td>
<td>ICFMAS120: Effects of the Spanwise Length of Computational Domain on LES based Airfoil Noise Prediction</td>
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<tr>
<td>15:10</td>
<td>ICFMAS138: Some Aspects of Cavitation Around a Triangular Cavitator with Curved Sides</td>
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# Room 303

**S4 - Advanced Industrial Applications and Design**

## October 27

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>13:30 - 14:30</td>
<td><strong>Chair:</strong> Andrew Ragai Anak Henry Rigit (Universiti Malaysia Sarawak)</td>
</tr>
</tbody>
</table>
| 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 |
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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00 - 10:00</td>
<td><strong>Chair:</strong> Dang The Ba (University of Engineering and Technology, VNU)</td>
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</table>
| 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 |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:00 - 10:30</td>
<td><strong>Coffee break/Poster sessions</strong> (10th FL)</td>
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<tr>
<td>10:30 - 11:30</td>
<td><strong>Chair: Nguyen Duc Hung</strong> (University of Tasmania)</td>
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| 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 |                                                      |
<table>
<thead>
<tr>
<th>Poster Session (10th Floor)</th>
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<tbody>
<tr>
<td><strong>P1</strong> ICFMAS003</td>
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<tr>
<td>Le Danh Lien, Nguyen Van Khanh</td>
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<tr>
<td><strong>P2</strong> ICFMAS005</td>
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<td>Nguyen Cong Hao, Nguyen The Mich, Tran Van Tran</td>
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<td><strong>P3</strong> ICFMAS006</td>
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<td>Phung Van Ngoc, Nguyen The Mich, Dang The Ba, Chu Dinh Do</td>
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<td><strong>P4</strong> ICFMAS010</td>
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<td>Van Bo Nguyen, The Mich Nguyen</td>
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<td><strong>P5</strong> ICFMAS013</td>
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<td>Luyen Van Hieu, Ngo Sy Loc, Tran Khanh Duong</td>
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<td><strong>P6</strong> ICFMAS014</td>
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<td>Nguyen Chi Cong, Luong Ngoc Loi, Ngo Van He, Vu Van Duy, Pham Ky Quang</td>
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<td><strong>P7</strong> ICFMAS015</td>
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<td>Anh Dung Hoang, Chang-Jo Yang, Manh Hung Nguyen, Hong Ha Tran</td>
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<td><strong>P8</strong> ICFMAS018</td>
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<td>Dinh Hoang Quan, Phan Van Tu, Dang Ngoc Thanh</td>
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<td><strong>P9</strong> ICFMAS019</td>
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<td>Nguyen Chi Cong, Luong Ngoc Loi, Ngo Van He, Vu Van Duy, Pham Ky Quang</td>
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<td><strong>P10</strong> ICFMAS020</td>
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<td>Mich Nguyen The, Van-Thuan Truong, Trong-Hiep Nguyen, Truong V. Vu</td>
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<td><strong>P11</strong> ICFMAS024</td>
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<td>Vu Duc Manh, Nguyen Trung Kien, Dao Trong Thang</td>
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<td><strong>P12</strong> ICFMAS032</td>
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<td>Phan Tran Hong Long, Le Quoc Hung</td>
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