

## INTERNATIONAL SYMPOSIUM ON PRECISION MACHINING AND ADVANCED TECHNOLOGIES (ISPMAT 2022)

Time		10:45 Nov 25, 2022, Classroom B4.6 (Building B, Floor 4)	
10:45	11:10	<p style="text-align: center;"><b>Plenary Lecture 1 (Chair: Prof. Nguyen Thanh Nam)</b> Industry 4.0: The Era of Smart Factory with the Industrial Internet of Things (IoT) <b>Ahmed A.D. Sarhan</b>, King Fahd University of Petroleum and Minerals, Saudi Arabia.</p>	
11:10	11:35	<p style="text-align: center;"><b>Plenary Lecture 2 (Chair: Prof. Nguyen Quoc Hung)</b> Drop Test of Magnetorheological Aircraft Landing Gear System <b>Seung-Bok Choi</b>, State University of New York, Korea</p>	
11:35	12:00	<p style="text-align: center;"><b>Plenary Lecture 3 (Chair: Prof. Nguyen Thanh Nam)</b> Complementary Metal-Oxide-Semiconductor (CMOS) technology in Micro-electromechanical system (MEMS). <b>Dung-An Wang</b>, National Chung Hsing University, Taichung, Taiwan</p>	
12:00	13:00	<i>Lunch break – IUH Canteen</i>	
13:00	14:00	<b>POSTER SESSION – The Hall Building H</b>	
1	ICATSD 2F.401	<p>CRASHWORTHINESS ANALYSIS OF MULTI-CELL SQUARE TUBE UNDER IMPACT LOADING <i>Thanh Dang Van, Son Doan Thanh, Truc Do Trung, Hoang Do Kim, Tu Pham Hoang, Nhan Tran Trong</i></p>	
2	ICATSD 2F.402	<p>DATA INFORMATION IN THE LINKAGE OF CONSTRUCTION SUPPLY CHAIN: A CASE IN VIETNAM <i>Tran Phu Loc</i></p>	
3	ICATSD 2F.417	<p>STRESS ANALYSIS FOR THE SPINDLE OF A FILAMENT WINDING MACHINE USING MDSOLIDS <i>Trieu Khoa Nguyen, Manh Hai Bui, Van Huy Le, Van Khanh Nguyen, Huu Phuoc Dang, Anh Phong Nguyen</i></p>	
4	ICATSD 2F.418	<p>THE APPLICATION OF ANSYS FLUENT IN DESIGN OF HEATING, VENTILATING AND AIR-CONDITIONING SYSTEM <i>Tran Dinh Anh Tuan, Nguyen Thi Kim Lien, Nguyen Thanh Nhan, Nguyen Thi Nguyet</i></p>	
5	ICATSD 2F.421	<p>A SIMULATION INVESTIGATION OF INFLUENCE OF CUTTING PARAMETERS ON TEMPERATURE AND CUTTING FORCE IN HIGH SPEED MACHINING OF TITANIUM ALLOY <i>Thanh-Danh Lam, Anh-Phi Bui, Duc-Nam Nguyen</i></p>	
6	ICATSD 2F.411	<p>ANALYZE THE INFLUENCE OF ROAD PROFILES ON THE COMFORT OF PASSENGERS IN SLEEPER BUS <i>Xuan Ngoc Nguyen, Van Nhu Tran, Van Tan Vu, Tien Phuc Dang, Thanh Tam Tran</i></p>	
<p><b>Session 1: Advanced Materials, Material Applications and Material Processing (Classroom B4.6)</b> <b>Chair: Assoc. Prof. Dr. Nguyen Duc Nam, Assoc. Prof. Dr. Le Thanh Danh</b></p>			
14:00	14:15	ICATSD2F.405	<p>A STUDY OF CYLINDRICAL SYMMETRY OPTIMAL PUMPING CAVITY FOR SOLAR-PUMPED LASER <i>Tomomasa Ohkubo, Ei-Ichi Matsunaga, Thanh Hung Dinh, Yuji Sato</i></p>

14:15	14:30	<b>ICATSD2F.407</b>	AUGMENTED AND VIRTUAL REALITY TOOLS TO REDUCE THE ENVIRONMENTAL IMPACT OF AERONAUTICS <i>A.Bernabeo, A.Ceruti, P.Marzocca, A.Liverani</i>
14:30	14:45	<b>ICATSD2F.408</b>	THE ENVIRONMENTAL IMPACT OF ADDITIVE MANUFACTURING ON THE AVIATION INDUSTRY <i>Alessandro Ceruti, Alberto Bernabeo, Pier Marzocca, and Alfredo Liverani</i>
14:45	15:00	<b>ICATSD2F.409</b>	CONSIDERATION OF FOCAL POINT CONTROL OF CPC FOR PUMPING CAVITY OF SOLAR-PUMPED LASERS <i>Hirozumi Munakata, Tomomasa Ohkubo, Ei-ich Matsunaga, Thanh Hung Dinh, Yuji Sato</i>
15:00	15:15	<b>ICATSD2F.422</b>	SPAN EFFICIENCY OF A FREE-FLYING DRAGONFLY WITH/WITHOUT FOREWING <i>Ryusuke Noda</i>
15:15	15:30	<b>ICATSD2F.432</b>	DROP TEST OF MAGNETORHEOLOGICAL AIRCRAFT LANDING GEAR SYSTEM <i>Byung-Hyuk Kang &amp; Seung-Bok Choi</i>
<b>Session 2: Thermal technology and energy (Classroom B4.7)</b> <b>Chair: Assoc. Prof. Dr. Nguyen Minh Phu, Dr. Nguyen Hoang Khoi</b>			
14:00	14:15	<b>ICATSD2F.424</b>	DEVELOPMENT OF INTERIOR ACOUSTIC CONTROL SYSTEM FOR ULTRA-COMPACT ELECTRIC VEHICLE: ANALYTICAL STUDY ON OUTPUT PERFORMANCE OF GIANT MAGNETOSTRICTIVE ACTUATOR <i>Taro Kato, Keigo Ikeda, Ayato Endo, Hideaki Kato, Takayoshi Narita, Mitsuaki Furui</i>
14:15	14:30	<b>ICATSD2F.414</b>	DESIGN AND SIMULATION OF AN INDEPENDENT THREE-PHASE INVERTER TO CONTROL SYSTEM ON THE DQ COORDINATE SYSTEM <i>Phuong-Vu Hoang, Lanh-Thanh Le, Thoi-Le Nam</i>
14:30	14:45	<b>ICATSD2F.423</b>	SIMULATION OF OXY-FUEL CIRCULATING FLUIDIZED BED COAL COMBUSTION <i>Hoang Khoi Nguyen, Thanh Bui Trung, Hoai Dinh Nhat Le</i>
14:45	15:00	<b>ICATSD2F.404</b>	SUSTAINABLE SOLUTION FOR INDUSTRIAL WASTE FLY ASH FROM THE COAL-FIRED THERMAL POWER PLANT <i>Nguyen Viet Duc, Dang Hoang Minh, Pham Truong Giang</i>
15:00	15:15	<b>ICATSD2F.427</b>	PYROLYSIS CHARACTERISTICS OF SOME SOLID FUELS IN A FLUIDIZED BED REACTOR <i>Thanh Quang Nguyen, Hoang Khoi Nguyen, Quang Phu Pham</i>
15:15	15:30	<b>ICATSD2F.429</b>	THE TECHNIQUE OF REFINED SALT DRYING ON A CONTINUOUS FLUIDIZED BED DRYER <i>Bui Trung Thanh, Pham Quang Phu, Nguyen Hoang Khoi</i>
15:30	15:45	<b>ICATSD2F.430</b>	BENEFIT ANALYSIS OF GRID-CONNECTED FLOATING PV SYSTEM AT DA MI, BINH THUAN <i>Nghia - Hieu Nguyen, An - Hoang Vo, Thanh - Trung Bui</i>
<b>Session 3: Advanced Structure and Building Materials (Classroom B4.8)</b> <b>Chair: Dr. Nguyen Van Nam, Assoc. Prof. Dr. Dao Dinh Nhan</b>			
14:00	14:15	<b>ICATSD2F.412</b>	EQUIVALENT-INPUT-DISTURBANCE-APPROACH-BASED DUCT-NOISE CONTROL CONSIDERING HUMAN AURAL CHARACTERISTICS <i>Kazuma Tamura, Zewen Wang, Jinhua She</i>

14:15	14:30	<b>ICATSD2F.406</b>	GEOMETRICALLY NONLINEAR FINITE ELEMENT ANALYSIS OF FUNCTIONALLY GRADED PLATES USING FIRST- AND THIRD-ORDER SHEAR DEFORMATION THEORY <i>Duy Thang Vu</i>
14:30	14:45	<b>ICATSD2F.413</b>	REHABILITATION METHODS FOR CORROSION-INDUCED DAMAGE IN REINFORCED CONCRETE STRUCTURES <i>Dong Viet Phuong Tran, Mien Van Tran, Pakawat Sancharoen, Pitichon Klomjit, Somnuk Tangtermsirikul</i>
14:45	15:00	<b>ICATSD2F.415</b>	AN EXPERIMENTAL STUDY ON SETTLEMENT BEHAVIOR OF SOFT DEPOSITS IMPROVED BY NATURAL DRAIN <i>Thi Phuong Linh Nguyen, Minh Hoang Tran, Tan Huy Nguyen, Tan Phat Nguyen, Ba Phu Nguyen</i>
15:00	15:15	<b>ICATSD2F.416</b>	TOPOLOGY OPTIMIZATION OF PLATE STRUCTURE USING PREDETERMINED-SHAPE HOLES <i>Truong Thanh Chung, Nguyen Thang Xiem, Le Nguyen Anh Vu, Ho Chi Han</i>
15:15	15:30	<b>ICATSD2F.431</b>	FINITE ELEMENT METHOD FOR THE MODEL PARAMETER EXTRACTION IN APPLICATION TO FACE-SHEAR MODE SQUARE MEMS RESONATOR <i>Tan-Loc Nguyen, Anh-Vinh Nguyen, Hung Le-Van</i>
<b>Session 4: Modeling, simulation and optimization (Classroom B4.9)</b> <b>Chair: Dr. Duong Cong Truyen, Dr. Vo Tan Chau</b>			
14:00	14:15	<b>ICATSD2F.403</b>	NUMERICAL INVESTIGATION ON CONJUGATE HEAT TRANSFER OF LIQUID COOLING PLATE FOR HIGH HEAT DISSIPATION ELECTRONIC DEVICES USING OPENFOAM®, AN OPEN SOURCE CFD SOFTWARE <i>Xuan Hung Nguyen</i>
14:15	14:30	<b>ICATSD2F.410</b>	EXPERIMENTAL ANALYSIS ON COMBUSTION CHARACTERISTICS OF BIOFUELS BY USING CONSTANT VOLUME COMBUSTION CHAMBER: AN OVERVIEW <i>Mai The Tai, Vo Tan Chau, Tran Dang Long</i>
14:30	14:45	<b>ICATSD2F.428</b>	DESIGN PROCESS OF ELECTRIC VEHICLE BATTERY SYSTEM <i>Pham Xuan Mai, Truong Thanh Hai, Le Hoang Phu Pham, Nguyen Chi Hung</i>
14:45	15:00	<b>ICATSD2F.419</b>	APPLICATION OF ADAPTIVE FUZZY ALGORITHM IN OPTIMIZING SPEED AND VIBRATION FOR A BIAxIAL MOTION AGV SYSTEM <i>Van – Y Huynh, Ngoc – Bich Le, Xuan – Hung Nguyen, Duc – Canh Nguyen, Manh – Kha Kieu, Tran – Thuy – Duong Ninh, Vu – Anh – Tram Nguyen, Narayan C. Debnath, Ngoc – Huan Le</i>
15:00	15:15	<b>ICATSD2F.420</b>	APPLY A* ALGORITHM TO OPTIMIZE THE TIME AND ENERGY OF PICKING/RETURNING GOODS IN SMART FACTORY <i>Van – Y Huynh, Ngoc – Bich Le, Xuan – Hung Nguyen, Duc – Canh Nguyen, Manh – Kha Kieu, Tran – Thuy – Duong Ninh, Vu – Anh – Tram Nguyen, Narayan C. Debnath, Ngoc – Huan Le</i>
15:15	15:30	<b>ICATSD2F.425</b>	NUMERICAL SIMULATION AERODYNAMICS CHARACTERISTIC OF BICYCLE HELMET <i>Tien Phuc Dang, Xuan Ngoc Nguyen</i>
15:30	15:45	<b>ICATSD2F.426</b>	OPTIMAL DESIGN OF A NON-ACCUMULATOR FLOW-MODE MAGNETO-RHEOLOGICAL SHOCK ABSORBER FOR VEHICLE APPLICATIONS <i>Quoc-Duy Bui, Huu-Quan Nguyen, Long-Vuong Hoang, Quoc Hung Nguyen</i>

