

PROGRAM SCHEDULE (general)

Please note that the program schedule is still subjected to changes

+ The 2nd December 2020

1A. GENERAL SESSION (8:00 – 10:50)

- Location: **N2T1 Conference Hall, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

- 8:00 – 9:00 : On-site registration & Music performance
- 9:00 – 9:30 : Opening remarks
- 9:35 – 10:20 : One plenary speaker
- 10:20 – 10:50 : Coffee break

1A. NINE PARALLEL SESSIONS (11:00 – 12:30)

- SESSION 1A.1: Damage, Fracture and Failure
Location: **Ha Noi Meeting Room, 2F, L-V Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations
- SESSION 1A.2: Damage, Fracture and Failure
Location: **Hoang Sa 1 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations
- SESSION 1A.3: Optimization and Inverse Problems
Location: **Hoang Sa 2 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations
- SESSION 1A.4: Additive Manufacturing
Location: **Sai Gon Meeting Room, 5F, L-V Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations
- SESSION 1A.5: Composites and Hybrid Structures
Location: **Truong Sa 2 Meeting Room, 4F, L-V Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations
- SESSION 1A.6: Flow Problems
Location: **Classroom 6.1, 6F, A Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations
- SESSION 1A.7: Flow Problems
Location: **Classroom 6.3, 6F, A Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations
- SESSION 1A.8: Flow Problems
Location: **Classroom 6.5, 6F, A Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations
- SESSION 1A.9: Soil/Fluid – Structure Interaction
Location: **Classroom 6.7, 6F, A Building, Van Lang University Campus 3**
 - 11:00 – 12:30: Four presentations

LUNCH BUFFET (12:30 – 13:30)

- Location: **Cafeteria, 4F, L-V Building, Van Lang University Campus 3**

1B. GENERAL SESSION (13:30 – 15:00)

- **Location: N2T1 Conference Hall, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

- 13:30 – 15:00 : Two plenary speakers
- 15:00 – 15:30 : Coffee break

1B. NINE PARALLEL SESSIONS (15:30 – 18:20)

- **SESSION 1B.1: Damage, Fracture and Failure**

Location: Ha Noi Meeting Room, 2F, L-V Building, Van Lang University Campus 3

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:20: Four presentations

- **SESSION 1B.2: Numerical Methods and Intelligent Computing**

Location: Hoang Sa 1 Meeting Room, 6F, L-V Building, Van Lang University Campus 3

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:40: Five presentations

- **SESSION 1B.3: Reinforced Concrete, Steel and Steel-Concrete Composite Structures**

Location: Hoang Sa 2 Meeting Room, 6F, L-V Building, Van Lang University Campus 3

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:20: Four presentations

- **SESSION 1B.4: Mechanical Automation Engineering**

Location: Sai Gon Meeting Room, 5F, L-V Building, Van Lang University Campus 3

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:20: Four presentations

- **SESSION 1B.5: Numerical Methods and Intelligent Computing**

Location: Truong Sa 2 Meeting Room, 4F, L-V Building, Van Lang University Campus 3

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:20: Four presentations

- **SESSION 1B.6: Natural Hazards Modelling/Dynamics**

Location: Classroom 6.1, 6F, A Building, Van Lang University Campus 3

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:20: Four presentations

- **SESSION 1B.7: Mechatronics**

Location: Classroom 6.3, 6F, A Building, Van Lang University Campus 3

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:20: Four presentations

- SESSION 1B.8: Numerical Methods and Intelligent Computing/Composites and Hybrid Structures

Location: **Classroom 6.5, 6F, A Building, Van Lang University Campus 3**

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:20: Four presentations

- SESSION 1B.9: Dynamics

Location: **Classroom 6.7, 6F, A Building, Van Lang University Campus 3**

- 15:30 – 16:40: Three presentations
- 16:40 – 16:55: Short break
- 16:55 – 18:20: Four presentations

GALA DINNER (19:00 – 20:30)

- Locations: **Cafeteria, 4F, L-V Building, Van Lang University Campus 3**

+ **The 3rd December 2020**

2A. GENERAL SESSION (8:30 – 10:15)

- Location: **N2T1 Conference Hall, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

- 8:30 – 10:00 : Two plenary speakers
- 10:00 – 10:15 : Coffee break

2A. NINE PARALLEL SESSIONS (10:20 – 12:10)

- SESSION 2A.1: Reinforced Concrete, Steel and Steel-Concrete Composite Structures
Location: **Ha Noi Meeting Room, 2F, L-V Building, Van Lang University Campus 3**
 - 10:20 – 12:10: Five presentations
- SESSION 2A.2: Numerical Methods and Intelligent Computing
Location: **Hoang Sa 1 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**
 - 10:20 – 12:10: Five presentations
- SESSION 2A.3: Mechanical Automation Engineering
Location: **Hoang Sa 2 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**
 - 10:20 – 12:10: Five presentations
- SESSION 2A.4: Composites and Hybrid Structures
Location: **Sai Gon Meeting Room, 5F, L-V Building, Van Lang University Campus 3**
 - 10:20 – 12:10: Five presentations
- SESSION 2A.5: Dynamics
Location: **Truong Sa 2 Meeting Room, 4F, L-V Building, Van Lang University Campus 3**
Virtual conference: <https://icomma.org/page/virtual-conference-68.html>
 - 10:20 – 12:10: Five presentations
- SESSION 2A.6: Reinforced Concrete, Steel and Steel-Concrete Composite Structures
Location: **Classroom 6.1, 6F, A Building, Van Lang University Campus 3**
 - 10:20 – 12:10: Five presentations

- SESSION 2A.7: Numerical Methods and Intelligent Computing
Location: **Classroom 6.3, 6F, A Building, Van Lang University Campus 3**
 - 10:20 – 12:10: Five presentations
- SESSION 2A.8: Mechanical Automation Engineering
Location: **Classroom 6.5, 6F, A Building, Van Lang University Campus 3**
 - 10:20 – 12:10: Five presentations
- SESSION 2A.9: Dynamics
Location: **Classroom 6.7, 6F, A Building, Van Lang University Campus 3**
 - 10:20 – 12:10: Five presentations

LUNCH BUFFET (12:10 – 13:30)

- Locations: **Cafeteria, 4F, L-V Building, Van Lang University Campus 3**

2B. GENERAL SESSION (13:30 – 14:45)

- Location: **N2T1 Conference Hall, Van Lang University Campus 3**
Virtual conference: <https://icomma.org/page/virtual-conference-68.html>
 - 13:30 – 14:15 : One plenary speaker
 - 14:15 – 14:45 : Coffee break

2B. THREE PARALLEL SESSIONS (14:45 – 18:20)

- SESSION 2B.1: Multiscale Multiphysics Problems/Dynamics
Location: **Truong Sa 2 Meeting Room, 4F, L-V Building, Van Lang University Campus 3**
Virtual conference: <https://icomma.org/page/virtual-conference-68.html>
 - 14:45 – 16:25: Four presentations
 - 16:25 – 16:40: Short break
 - 16:40 – 18:20: Four presentations
- SESSION 2B.2: Dynamics
Location: **Hoang Sa 1 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**
 - 14:45 – 16:25: Four presentations
 - 16:25 – 16:40: Short break
 - 16:40 – 18:20: Four presentations
- SESSION 2B.3: Composites and Hybrid Structures
Location: **Hoang Sa 2 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**
 - 14:45 – 16:25: Four presentations
 - 16:25 – 16:40: Short break
 - 16:40 – 18:20: Four presentations
- SESSION 2B.4: Conference of VAM & VLU
Location: **Ha Noi Meeting Room, 2F, L-V Building, Van Lang University Campus 3**
 - 16:40 – 18:20: Conference of VAM & VLU

CLOSING PLENARY (18:30 – 18:50)

- Location: **N2T1 Conference Hall, Van Lang University Campus 3**
 - 18:30 – 18:50: Closing remarks

PROGRAM SCHEDULE (in details)

+ The 2nd December 2020

1A. GENERAL SESSION (8:00 – 10:50)

Location: **N2T1 Conference Hall, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
8:00 – 8:30	On-site registration	Receptionists	VAM
8:30 – 9:05	Music Performance	Singers	Van Lang University
9:05 – 9:20	Welcome Statement and Introduction of Guests	MC	Van Lang University
9:20 – 9:25	Opening address by ICOMMA Chairman	Nguyen Tien Khiem	President of VAM
9:25 – 9:30	Welcome address by the President of Mechanics Association of Ho Chi Minh City	Thai Ba Can	President of HCM MA
9:30 – 9:35	Speech of the Rector of Van Lang University	Tran Thi My Dieu	The Rector of Van Lang University
<i>Plenary Chair</i>	Nguyen Xuan Hung		
9:35 – 10:20	On robust shell finite elements and nonlocal mechanics	J.N. Reddy (Plenary speaker)	Texas A&M University College Station, USA
10:20 – 10:50	Coffee break		

1A. NINE PARALLEL SESSIONS (10:50 – 12:30)

SESSION 1A.1: The 2nd December 2020

Location: **Ha Noi Meeting Room, 2F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Trung Kien (UTC) & Nguyen Trung Kien (NUCE) (Damage, Fracture and Failure)			
10:50 – 11:15	Bulk Modulus Prediction of Particulate Composite with Spherical Inclusion Surrounded by A Graded Interphase	Nguyen Trung Kien	University of Transport and Communications

11:15 – 11:40	Failure Analysis of Pressurized Hollow Cylinder Made of Cohesive-Frictional Granular Materials	Nguyen Trung-Kien	National University of Civil Engineering
11:40 – 12:05	Assessment of Dynamic Effects of Wave Loads on The Fixed Steel Offshore Structures Through the Fatigue Damage	Bui The Anh	National University of Civil Engineering
12:05 – 12:30	Research, Assessment for Fatigue Strength of Shaft Parts Manufactured from Two Phase Steel (Duplex)	Tang Ha Minh Quan	Van Lang University

SESSION 1A.2: The 2nd December 2020

Location: **Hoang Sa 1 Meeting Room, 6F, L-V Buidling, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Thai Chung & Tran Bao Viet (Damage, Fracture and Failure)			
10:50 – 11:15	Damage Simulation Based on The Phase Field Method of Porous Concrete Material at Mesoscale	Tran Bao Viet	University of Transport and Communications
11:15 – 11:40	Failure Behavior of The Dissimilar Friction Stir Welding Between Pure Copper and Aluminum 1050	Tran Hung Tra	Nha Trang University
11:40 – 12:05	The Numerical and Experimental Research on Cutting Forces in the Surface Grinding of Ti-6al-4v Alloy	Hung Trong Phi	Electric Power University
12:05 – 12:30	Modeling Fracture in Kirchhoff Plate Using an Extended Meshfree Method	Siu Vay Lo	Ho Chi Minh City University of Technology

SESSION 1A.3: The 2nd December 2020

Location: **Hoang Sa 2 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Pham Hoang Anh & Le Hung Tien (Optimization and Inverse Problems)			
10:50 – 11:15	Fuzzy structural identification of bar-type structures using differential evolution	Hoang-Anh Pham	National University of Civil Engineering
11:15 – 11:40	Structural damage identification of plates using a two-stage approach combining modal strain energy method and genetic algorithm	Le Thanh Cao	Nha Trang University
11:40 – 12:05	Mvac System Optimization Using Building Information Modeling	Le Hung Tien	Van Lang University

12:05 – 12:30	Building information modeling for sustainable design and multidisciplinary design optimization	Le Tien Hung	Van Lang University
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SESSION 1A.4: The 2nd December 2020

Location: **Sai Gon Meeting Room, 6F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Quoc Hung & Dang Van Nghin (Additive Manufacturing)			
10:50 – 11:15	Crystal structure and mechanical properties of 3d printing parts using bound powder deposition method	Nguyen Quoc Hung	Vietnamese German University
11:15 – 11:40	Study, Design and Manufacture Details of Cranial Implants Using Additive Manufacturing Sla Technology	Dang Van Nghin	Van Lang University
11:40 – 12:05	Strategy and A Roadmap of Additive Manufacturing in Viet Nam Period 2021 – 2045	Nguyen Van Cuong	Can Tho University
12:05 – 12:30	Effects of Design Parameters on Dynamic Performance of a Solenoid Applied for Gas Injector	Nguyen Ba Hung	Hanoi University of Science and Technology

SESSION 1A.5: The 2nd December 2020

Location: **Truong Sa 2 Meeting Room, 5F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Tran Huu Quoc & Vu Hoai Nam (Composites and Hybrid Structures)			
10:50 – 11:15	Nonlinear Buckling Behavior of FG-CNTRC Toroidal Shell Segments Stiffened By FG-CNTRC Stiffeners Under External Pressure	Vu Hoai Nam	University of Transport Technology
11:15 – 11:40	Large Amplitude Free Vibration Analysis of Functionally Graded Sandwich Plates with Porosity	Duong Thanh Huan	Vietnam National University of Agriculture
11:40 – 12:05	Nonlinear Buckling of Eccentrically Spiral Stiffened Fg-Gplrc Cylindrical Shells Subjected to Torsional Loads	Vu Hoai Nam	University of Transport Technology
12:05 – 12:30	Thermal Bending Analysis of FGM Cylindrical Shells Using A Quasi-3d Type Higher-Order Shear Deformation Theory	Tran Ngoc Doan	Le Quy Don Technical University

SESSION 1A.6: The 2nd December 2020

Location: Classroom 6.1, 6F, A Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Hoang Van Huan & Nguyen The Hung (Flow Problems)			
10:50 – 11:15	A Dual Approach for Modeling Two-Dimensional and One-Dimensional Solute Transport	Nguyen The Hung	The University of Danang
11:15 – 11:40	Inviscid Simulation of Cavitation Flow by a Homogeneous Equilibrium Model	Le Dinh Anh	University of Engineering and Technology, Vietnam National University
11:40 – 12:05	The Equation That Connects Boyler's And Bernoulli's Law	Nguyen Ngoc Tinh	Duy Tan University
12:05 – 12:30	Explicit Homogenized Equations of The Orthotropic Elasticity in Two-Dimensional Domains with Very Rough Interfaces of Circular Type	Do Xuan Tung	Hanoi Architectural University

SESSION 1A.7: The 2nd December 2020

Location: Classroom 6.3, 6F, A Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Tien Dat & Nguyen Thi Viet Lien (Flow Problems)			
10:50 – 11:15	CFD Analysis of Subcooled Boiling Flows in Vertical Annular Channel with Iat Models	Nguyen Van Thai	Hanoi University of Science and Technology
11:15 – 11:40	Hydrodynamic Analysis For Aquaculture In Binh-Dinh Coastal Area, Vietnam	Vo Ngoc Duong	University of Da Nang
11:40 – 12:05	Aerodynamic responses of indented cable surface and axially protuberated cable surface with low damping ratio	Vo Duy Hung	University of DaNang – University of Science and Technology
12:05 – 12:30	Effects of the computational domain sizes on the simulated air flow in solar chimneys	Huynh Nhat Trieu	Van Lang University

SESSION 1A.8: The 2nd December 2020

Location: Classroom 6.5, 6F, A Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Dinh Van Manh & Nguyen Quoc Y (Flow Problems)			
10:50 – 11:15	Solar Chimneys for Natural Ventilation of Buildings: Induced Air Flow Rate Per Chimney Volume	Nguyen Quoc Y	Van Lang University
11:15– 11:40	Effects of Light Well Shape on The Aerodynamic Characteristics of a Building Using Computational Fluid Dynamics Simulations	Ngo Ngoc Do	Ho Chi Minh City University of Technology
11:40 – 12:05	A Study of Fluid-Structure Interaction of Unsteady Flow in The Blood Vessel Using Finite Element Method	Ha Truong Sang	Le Quy Don Technical University
12:05 – 12:30	Vortex Dynamics of a Pulsed Jet Flow at Various Forcing Frequencies	Le Minh Duc	University of Danang

SESSION 1A.9: The 2nd December 2020

Location: Classroom 6.7, 6F, A Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Dao Van Tuyet & Duong Hong Tham (Soil/Fluid-Structure Interaction)			
10:50 – 11:15	Studying the Strength of An Acidic Soil-Cement Mixing in Laboratory	Duong Hong Tham	Ho Chi Minh City Open University
11:15– 11:40	Study on the Impact of Time Explosion to Stability of Underground Military Construction	Dao Van Tuyet	Vietnam National Space Center
11:40 – 12:05	Forecast the Impact of Exploiting Underground Space to Land Subsidence	Dao Van Tuyet	Vietnam National Space Center
12:05 – 12:30	An Assessment of Terrain Quality and Selection Model in Developing Landslide Susceptibility Map – A Case Study in Mountainous Areas of Quang Ngai Province, Vietnam	Nguyen Duc Phuoc Vo	University of Danang

LUNCH BUFFET (12:30 – 13:30)

Location: Cafeteria, 4F L-V Building, Van Lang University Campus 3

1B. GENERAL SESSION (13:30 – 15:30)

Location: **N2T1 Conference Hall, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Plenary Chairs: Nguyen Tien Khiem & Nguyen Quoc Hung			
13:30 – 14:15	Advanced soft computing and geospatial technology for natural hazard modeling and prediction	Bui Tien Dieu (Plenary speaker)	University of South-Eastern Norway
14:15 – 15:00	New attach technologies and materials for interconnections in electronic and optical systems: experimental and modeling aspects	Lahouari Benabou (Plenary speaker)	Paris Saclay University, France
15:00 – 15:30	Coffee break		

1B. NINE PARALLEL SESSIONS (15:30 – 18:15)

SESSION 1B.1: The 2nd December 2020

Location: **Ha Noi Meeting Room, 2F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Hoai Son & Nguyen Anh Dung (Damage, Fracture and Failure)			
15:30 – 15:55	Low Temperature Effect on Dynamic Mechanical Behavior of High Damping Rubber Bearings	Nguyen Anh Dung	Thuyloi University
15:55 – 16:20	Determining the Reasonable Wide of The Equivalent Strip in The Calculation of Reinforced Concrete Bridge Decks	Nguyen Duc Hieu	University of Transport and Communications
16:20 – 16:45	Nonlinear Effects of The Material in The Pier Dam Experiment Under Cyclic Loading	Nguyen Van Xuan	Water resources University
16:45 – 17:00	Short break		
Session Chairs: Le Van Canh & Chau Dinh Thanh (Damage, Fracture and Failure)			
17:00 – 17:25	Practical Method for Tracking Fatigue Damage	Nguyen Hai Son	Hanoi University of Science and Technology
17:25 – 17:50	The Long-Term Ground Deformation Effects on Constructions	Pham Kien	Van Lang University

17:50 – 18:15	An Investigation on Behaviors of Mass Concrete in Cua-Dai Extradosed Bridge Due to Hydration Heat	Vo Duy Hung	The University of Da Nang – University of Science and Technology
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SESSION 1B.2: The 2nd December 2020

Location: **Hoang Sa 1 Meeting Room, 6F, L-V Buidling, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Duong Xuan Bien & Tran Tuan Minh (Numerical Methods and Intelligent Computing)			
15:30 – 15:55	Auxetic structure design: A multi-material topology optimization with energy-based homogenization approach	Tran Tuan Minh	Vietnamese German University
15:55 – 16:20	Evaluate the Effect of The Varying of The End-Effector Point Trajectory on The Joint Jerk of The Redundant Robot Systems	Duong Xuan Bien	Le Quy Don Technical University
16:20 – 16:45	Generating Database Using Uncertainty Analysis and Modern Integrated Code for Training Neural Network Based – Identification System of Npp’s Representative Accidents with Vver-1000 Reactor	Truong Van Khanh Nhat	Vietnam Atomic Energy Institute
16:45 – 17:00	Short break		
Session Chairs: Nguyen Thanh Nha & Le Thi Kim Ngoc (Numerical Methods and Intelligent Computing)			
17:00 – 17:25	A meshfree method based on integrated radial basis functions for 2D hyper elastic bodies	Nguyen Thanh Nha	Ho Chi Minh City University of Technology
17:25 – 17:50	Effect of low temperature on the mechanical behavior of high damping rubber bearings	Le Trung Phong	Thuyloi University
17:50 – 18:15	Building A Time Series Forecasting Model Based on Fuzzy Relationships	Le Thi Kim Ngoc	Van Lang University

SESSION 1B.3: The 2nd December 2020

Location: **Hoang Sa 2 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
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Session Chairs: Tran Anh Dung & Phan Hoang Nam (Reinforced Concrete, Steel and Steel-Concrete Composite Structures)

15:30 – 15:55	Surrogate Model-Based Seismic Fragility Analysis of Multi-Span Reinforced-Concrete Bridges	Hoang Nam Phan	The University of Danang
15:55 – 16:20	Behavior of Monolithic Prestressed Concrete Slab Track at Highway-Railway Grade Crossings	Tran Anh Dung	University of Transport and Communications
16:20 – 16:45	Discussion on choosing location and distance to put geotextile layers in embankment of highways to increase the stable safety factor	Huynh Ngoc Hao	Mien Trung University of Civil Engineering
16:45 – 17:00	Short break		

Session Chairs: Nguyen Thai Chung & Thai Hoang Chien (Numerical Methods and Intelligent Computing)

17:00 – 17:25	Dynamic analysis of curved beam on elastic foundation subjected to moving oscillator using finite element method	Nguyen Thai Chung	Le Quy Don Technical University
17:25 – 17:50	Buckling analysis of FG GPLRC plate using a naturally stabilized nodal integration meshfree method	Thai Hoang Chien	Ton Duc Thang University
17:50 – 18:15	Numerical Simulation of Full-Scale Square Concrete Filled Steel Tubular (CFST) Columns under Seismic Loading	Hao Dinh Phan	National Taiwan University of Science and Technology

SESSION 1B.4: The 2nd December 2020

Location: **Sai Gon Meeting Room, 5F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Quoc Hung & Thai Thi Thu Ha (Mechanical and Automation Engineering)			
15:30 – 15:55	Design and fabricate transmission crank mechanism of the rotational moulding	Thai Thi Thu Ha	Van Lang University
15:55 – 16:20	A New Sliding Mode Controller for Force Control of Magnetorheological Haptic Joysticks	Nguyen Quoc Hung	Vietnamese German University
16:20 – 16:45	Applied Research Reverse Engineering and Cad/Cam/CNC To Machining Molds for Skull Implants	Huynh Huu Nghi	Ho Chi Minh City University of Technology
16:45 – 17:00	Short break		

Session Chairs: Le Van Manh & Nguyen Ngoc Tan (Reinforced concrete, steel and Steel-Concrete Composite Structures)

17:00– 17:25	The Effect of Porosity on The Elastic Modulus and Strength of Pervious Concrete	Vu Viet Hung	University of Transport and Communications
17:25– 17:50	Variability of Concrete Compressive Strength in Existing Concrete Bridges	Le Van Manh	University of Transport and Technology
17:50 – 18:15	Numerical Modeling of Shear Behavior Of Reinforce Concrete Beams With Stirrups Corrosion: Fe Validation And Parametric Study	Nguyen Ngoc Tan	National University of Civil Engineering

SESSION 1B.5: The 2nd December 2020

Location: Truong Sa 2 Meeting Room, 4F, L-V Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Doan Xuan Quy & Nguyen Cao Thang (Numerical Methods and Intelligent Computing)			
15:30 – 15:55	On the Application of The Thin-Walled Theory to Calculate the Semi-Enclosed Core Wall Structure of High-Rise Buildings Subjected to Lateral Loads	Doan Xuan Quy	Thuyloi University
15:55 – 16:20	Classify Maturity of Cherry Tomato Using Deep Learning Techniques	Danh Phuoc Huynh	Van Lang University
16:20 – 16:45	Force control of Upper limb Exoskeleton to support human movement using force feedforward model	Nguyen Cao Thang	Vietnam Academy of Science and Technology
16:45 – 17:00	Short break		
Session Chairs: Le Xuan Doan & Vo Duy Hung (Dynamics)			
17:00 – 17:25	Nonlinear Vibration Analysis for FGM Cylindrical Shells with Variable Thickness Under Mechanical Load	Le Xuan Doan	Academy of Military Science and Technology
17:25– 17:50	Optimum Tuning of Tuned Mass Dampers for Acceleration Control of Damped Structures	Nguyen Huu Anh Tuan	University of Architecture Ho Chi Minh City
17:50 – 18:15	Responses of Indented Surface Cable and Parallel Protuberances in Damping Ratio Region Due to Wind and Rain Wind Interaction	Vo Duy Hung	University of Danang

SESSION 1B.6: The 2nd December 2020Location: **Classroom 6.1, 6F, A Building, Van Lang University Campus 3**Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Dinh Van Manh & Vu Minh Tuan (Natural Hazards Modelling)			
15:30 – 15:55	Development of A Real-Time Flood Forecasting Tool: A Case Study of The Krong H'ngang Hydropower Reservoir	Phuoc Sinh Nguyen	University of Da Nang
15:55 – 16:20	Simulation of A Wave Energy Converter Using The Floating Structure	Tang Ha Minh Quan	Van Lang University
16:20 – 16:45	A Solar Chimney for Natural Ventilation of a Three – Story Building	Nguyen Van Tung	Van Lang University
16:45 – 17:00	Short break		
Session Chairs: Nguyen Viet Khoa & Nguyen Xuan Toan (Dynamics)			
17:00 – 17:25	Effect of Road Roughness on Dynamic Impact Factor of Cable-Stayed Bridge Subjected to Moving Vehicle	Duy-Thao Nguyen	University of Danang
17:25 – 17:50	Vibration and Dynamic Impact Factor Analysis of The Steel Truss Bridges Subjected to Moving Vehicles	Nguyen Xuan Toan	Da Nang University of Science and Technology
17:50 – 18:15	Damage detection of cables in cable stayed bridges using vibration data measured from climbing robot	Nguyen Viet Khoa	Institute of Mechanics

SESSION 1B.7: The 2nd December 2020Location: **Classroom 6.3, 6F, A Building, Van Lang University Campus 3**Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Pham Hong Phuc & Ngo Thi Hoa (Mechatronics)			
15:30 – 15:55	Stable Working Condition and Critical Driving Voltage of The Electrothermal V-Shaped Actuator	Pham Hong Phuc	Hanoi University of Science and Technology
15:55 – 16:20	Design of High-Rise Building Cleaning Device	Ngo Thi Hoa	Van Lang University
16:20 – 16:45	Study on Design of Solar Energy Receiver	Nguyen Van Cuong	Can Tho University
16:45 – 17:00	Short break		
Session Chairs: Vu Hoai Nam & Le Kha Hoa (Composites and Hybrid Structures)			

17:00 – 17:25	Postbuckling Analysis of Stiffened Shear Deformable Fg-Grc Laminated Doubly Curved Shallow Shells Resting on Nonlinear Elastic Foundation	Vu Hoai Nam	University of Transport Technology
17:25 – 17:50	Nonlinear buckling and postbuckling of es-fg porous cylindrical shells under external pressure	Le Kha Hoa	Military Academy of Logistics, Vietnam
17:50 – 18:15	Free Vibration Analysis of Functionally Graded Carbon Nanotube-Reinforced Composite Plates Submerged in Fluid Medium	Duong Thanh Huan	Vietnam National University of Agriculture

SESSION 1B.8: The 2nd December 2020

Location: Classroom 6.5, 6F, A Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Xuan Thanh & Thai Hoang Chien (Numerical Methods and Intelligent Computing)			
15:30 – 15:55	A High-Order Time Finite Element Method Applied to Structural Dynamics Problems	Thanh Nguyen Xuan	National University of Civil Engineering
15:55 – 16:20	A Size-Dependent Meshfree Approach for Free Vibration Analysis of Functionally Graded Microplates Using the Modified Strain Gradient Elasticity Theory	Thai Hoang Chien	Ton Duc Thang University
16:20 – 16:45	Design and Fabrication of Mecanum Wheels for Forklift Vehicle	Thanh-Long Le	Ho Chi Minh City University of Technology
16:45 – 17:00	Short break		
Session Chairs: Tran Minh Tu & Pham Hoang Anh (Composites and Hybrid Structures)			
17:00 – 17:25	Dynamic Analysis of a Functionally Graded Sandwich Beam Traversed by A Moving Mass Based on A Refined Third-Order Theory	Le Thi Ngoc Anh	Institute of Applied Mechanics and Informatics
17:25 – 17:50	Free Vibration of Stiffened Functionally Graded Porous Cylindrical Shell with Different Boundary Conditions	Vu Van Tham	National University of Civil Engineering
17:50 – 18:15	Optimal design of functionally graded sandwich porous beams for maximum fundamental frequency using metaheuristics	Hoang-Anh Pham	National University of Civil Engineering

SESSION 1B.9: The 2nd December 2020Location: **Classroom 6.7, 6F, A Building, Van Lang University Campus 3**Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Le Xuan Doan & La Duc Viet (Dynamics)			
15:30 – 15:55	A Multibody Dynamics Approach to Study an Insect-Wing Structure	Le Vu Dan Thanh	Le Quy Don Technical University
15:55 – 16:20	Nonlinear dynamic buckling of variable thickness FGM cylindrical shells subjected to mechanical load	Le Xuan Doan	Academy of Military Science and Technology
16:20 – 16:45	Optimal electrical load of the regenerative absorber for ride comfort and regenerated power	La Duc Viet	Institute of Mechanics
16:45 – 17:00	Short break		
Session Chairs: La Duc Viet & Nguyen Trong Du (Dynamics)			
17:00 – 17:25	Six-Wheel Terrain Robot Design	Nguyen Van Cuong	Can Tho University
17:25 – 17:50	Balancing Control for Unicycle Robot Using the Sliding Mode Controller	Nguyen Phuoc Luan	Van Lang University
17:50 – 18:15	Advanced signal decomposition methods for vibration diagnosis: A review with new application examples	Nguyen Trong Du	Hanoi University of Science and Technology

BANQUET – GALA DINNER (19:00 – 20:30)- Locations: **Cafeteria, 4F L-V Building, Van Lang University Campus 3**

+The 3rd December 2020

2A. GENERAL SESSION (8:30 – 10:30)

Location: N2T1 Conference Hall, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Truong Tich Thien & Tran Van Lien			
8:30 – 9:15	A massively parallel explicit solver for elasto-dynamic problems using the scaled boundary finite element method with octree meshes	Chongmin Song (Plenary speaker)	University of New South Wales, Australia
9:15 – 10:00	Computational Modelling of 3D printed lattice structures	Jonathan Tran (Plenary speaker)	RMIT University, Australia
10:00 – 10:30	Coffee break		

2A. NINE PARALLEL SESSIONS (10:30 – 12:35)

SESSION 2A.1: The 3rd December 2020

Location: Ha Noi Meeting Room, 2F, L-V Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Truong Viet Hung & Nguyen Tat Thang (Reinforced Concrete, Steel and Steel-Concrete Composite Structures)			
10:30 – 10:55	Constitutive Response and Failure Pattern of Highly Porous Cement-Based Materials Under True Triaxial Stress States	Thang Tat Nguyen	National University of Civil Engineering
10:55 – 11:20	Seismic Performance of Concrete Filled Steel Tubular (CFST) Columns with Various Axial Compressive Loads	Hao Dinh Phan	National Taiwan University of Science and Technology
11:20 – 11:45	Statistical Error in The Determination of Concrete Properties and Its Influence on Predicted Shear Capacities of RC Beams Without Stirrups	Le Van Manh	University of Transport and Technology
11:45 – 12:10	Characterization of Stress Relaxation Behavior of Poscable-86 High-Strength Steel Wire	Viet-Hung Truong	Thuyloi University
12:10 – 12:35	Effect of Test Specimens on The Shear Behavior of Mortar Joint in Hollow Concrete Block Masonry	Loan Bui	University of Transport and Communications

SESSION 2A.2: The 3rd December 2020

Location: **Hoang Sa 1 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Vuong Van Thanh & Luong Van Hai (Numerical Methods and Intelligent Computing)			
10:30 – 10:55	A Study on Methodology of Improvement the Hydraulic System for Cometto Self-Propelled Trailer System	Hai Minh Nguyen Tran	Van Lang University
10:55 – 11:20	Electromechanical Properties of Monolayer Sn-Dichalcogenides	Vuong Van Thanh	Hanoi University of Science and Technology
11:20 – 11:45	Application of Artificial Intelligence for Structural Optimization	Nguyen Tran-Hieu	National University of Civil Engineering
11:45 – 12:10	Turning Electronic and Optical Properties of Monolayer Janus Sn-Dichalcogenides By Biaxial Strain	Vuong Van Thanh	Hanoi University of Science and Technology
12:10 – 12:35	Application of Long Short-Term Memory (Lstm) Networks for Rainfall-Runoff Simulation in Vu Gia–Thu Bon Catchment, Vietnam	Doan Thi Ngoc Canh	University of Danang

SESSION 2A.3: The 3rd December 2020

Location: **Hoang Sa 2 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Thai Thi Thu Ha & Do Quang Thang (Mechanical and Automation Engineering)			
10:30 – 10:55	Analysis of The Impact of Ponds Locations in Flood Cutting from A Developing City in Vietnam	Nguyen Duc Phuoc Vo	University of Danang
10:55 – 11:20	Experimental and Numerical Investigations on The Fracture Response of Tubular T-Joints Under Dynamic Mass Impact	Do Quang Thang	Nha Trang University
11:20 – 11:45	Calculation and Design Dynamometers for Single Point Incremental Forming (Spif)	Tran Dai Nguyen	HCMC University of Technology
11:45 – 12:10	A study on combination of two high damping rubber dampers to control stayed-cable vibration considering its bending stiffness	Nguyen Duy Thao	University of Danang

12:10 – 12:35	Numerical modeling of creep concrete beam and slab with Boltzmann superposition principle	Kim Bang Tran	Ho Chi Minh City University of Technology
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SESSION 2A.4: The 3rd December 2020

Location: Sai Gon Meeting Room, 5F, L-V Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Tran Minh Tu & Le Kha Hoa (Composites and Hybrid Structures)			
10:30 – 10:55	Frequency Equation and Coupling Strength Between Cantilevers in An Array	Nguyen Duy Vy	Ton Duc Thang University
10:55 – 11:20	Analysis the Influence of The Thin Plates Material to The Vehicle's Noise and Vibration	Nguyen Thanh Quang	Hanoi University of Industry
11:20 – 11:45	A Study Toward Golden Ratio Application in The Optimization of Cold-Formed Steel Sections	Phu-Cuong Nguyen	Ho Chi Minh City Open University
11:45 – 12:10	Static Behavior of Sandwich Beam with Fluid-Infiltrated Porous Core	Duc Minh Do	Da Nang University
12:10 – 12:35	Nonlinear Torsional Buckling and Post-buckling of ES-FG Porous Cylindrical Shells in The Framework of The Shear Deformation Theory	Le Kha Hoa	Military Academy of Logistics

SESSION 2A.5: The 3rd December 2020

Location: Truong Sa 2 Meeting Room, 4F, L-V Building, Van Lang University Campus 3

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Tien Khiem & Phung Van Phuc (Dynamics)			
10:30 – 10:55	Rayleigh Quotient for Longitudinal Vibration of Multiple Cracked Bar and Application	Nguyen Tien Khiem	Vietnam Academy of Science and Technology
10:55 – 11:20	Self-Vibrational Analysis of a Tensegrity	Buntara S. Gan (online)	Nihon University, Koriyama, Japan
11:20 – 11:45	Dynamic Analysis of Liquid Storage Tank Under Seismic Considering Fluid-Structure Interaction In 2-Ways	Bui Pham Duc Tuong	HCM University of Technology and Education

11:45 – 12:10	Formulas for the H/V Ratio of Rayleigh Waves in Pre-Strained Elastic Half-Spaces Subject to An Isotropic Internal Constraint	Le Thi Hue	Vietnam National University of Forestry
12:10 – 12:35	Assessment of reduced strength of existing mooring lines of floating offshore platforms taking into account corrosion	Pham Hien Hau (online)	National University of Civil Engineering

SESSION 2A.6: The 3rd December 2020

Location: **Classroom 6.1, 6F, A Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Truong Tich Thien & Nguyen Ngoc Tan (Reinforced Concrete, Steel and Steel-Concrete Composite Structures)			
10:30 – 10:55	Modeling of Beam – Column Joints Detailed Complied with Vietnamese Standards in Reinforced Concrete Frame Building Under Seismic Conditions	Thuy Nguyen Thi Thanh	Thuyloi University
10:55 – 11:20	Experimental and Finite Element Analysis of High Strength Steel Fiber Concrete – Timber Composite Beams Subjected to Flexion	Nguyen Ngoc Tan	National University of Civil Engineering
11:20 – 11:45	Proposal of Threshold Value of Moisture Content of Concrete for Appropriate Measurement of Surface Water Absorption Test	Hoang Trong Lam	University of Danang
11:45 – 12:10	Experimental Study on Shear Resistance of Reinforced Concrete Beam Reinforced By Inclined Stirrups	Minh Nguyen	Ho Chi Minh City University of Technology
12:10 – 12:35	Optimization analysis of stiffened composite plate Using ijaya algorithm	Lam Phat Thuan	Ho Chi Minh City University of Technology and Education

SESSION 2A.7: The 3rd December 2020

Location: **Classroom 6.3, 6F, A Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Le Thi Kim Ngoc & Tran Kim Bang (Numerical Methods and Intelligent Computing)			

10:30 – 10:55	Image Recognition Using Unsupervised Learning Based Automatic Fuzzy Clustering Algorithm	Le Thi Kim Ngoc	Van Lang University
10:55 – 11:20	Vibroacoustic Behavior of Finite Composite Sandwich Plates with Foam Core	Pham Ngoc Thanh	Viet-Tri University of Industry
11:20 – 11:45	Analysis the Effect of Voids, Inclusions on Crack Behavior by The Extended Twice - Interpolation Finite Element Method	Kim Bang Tran	Ho Chi Minh City University of Technology
11:45 – 12:10	Natural Ventilation and Cooling of House with A Solar Chimney Coupled with Earth – To – Air Heat Exchanger	Nguyen Tuan Viet	Van Lang University
12:10 – 12:35	The application of the panel method to predict the unsteady aerodynamic coefficients of a wing model flying over bumpy ground	Tran Dinh Khoi	Le Quy Don Technical University

SESSION 2A.8: The 3rd December 2020

Location: **Classroom 6.5, 6F, A Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Do Tri Nhut & Nguyen Quoc Hung (Mechanical and Automation Engineering)			
10:30 – 10:55	Optimal Control for Torpedo Motion by Using MEMS Gyroscope and PID Controller	Thanh-Long Le	Ho Chi Minh City University of Technology
10:55 – 11:20	Total solutions in creative design of glass cleaning robot types of multi-story buildings	Nguyen Quang Hoang	Ho Chi Minh City University of Technology
11:20 – 11:45	Research and Design mechanical structure of DNA-RNA extraction machine	Huynh Hien Vinh	Ho Chi Minh City University of Technology
11:45 – 12:10	Development of a New Magneto-rheological Clutch featuring Tooth-shaped disc	Nguyen Quoc Hung	Vietnamese German University
12:10 – 12:35	Design of Controller for Glass Cleaning Robot in Building	Danh Phuoc Huynh	Van Lang University

SESSION 2A.9: The 3rd December 2020

Location: **Classroom 6.7, 6F, A Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Xuan Toan & Dang Van Nghin (Dynamics)			
10:30 – 10:55	Dynamic Impact Analysis of Girder Bridge Due to Vehicle Load Model and Design Codes	Toan Nguyen Xuan	Da Nang University of Science and Technology
10:55 – 11:20	Design and Hysteresis Modeling of a New Damper Featuring Shape Memory Alloy Actuator and Wedge Mechanism	Bui Quoc Duy	HCMC University of Technology and Education
11:20 – 11:45	Investigation of Motion Characteristics of Fishing Vessel in Irregular Waves in Vietnam	Nguyen Tien Thua	University of Danang
11:45 – 12:10	Analyzing the benefit of viscoelastic damper in damping design for structures	Tran Thanh Trung	Van Lang University
12:10 – 12:35	Non-Uniform Polygonal Cross-Sections of Thin-Walled FG Sandwich Beams	Tan-Tien Nguyen	Vietnamese-German University

LUNCH BUFFET (12:35 – 13:30)

Location: Cafeteria, 4F L-V Building, Van Lang University Campus 3

2B. GENERAL SESSION (13:30 – 14:45)

Location: **N2T1 Conference Hall, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Nguyen Trung Kien (HCMUTE)			
13:30 – 14:15	Acoustical behavior of the bone-implant interface: from multiscale modeling to the patient's bed	Guillaume Haiat (Plenary speaker)	Université Paris-Est, France
14:15 – 14:45	Coffee break		

2B. THREE PARALLEL SESSIONS (14:45 – 18:20)

SESSION 2B.1: The 3rd December 2020

Location: **Truong Sa 2 Meeting Room, 4F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Le Van Canh & Le Tien Thinh (Multiscale Multiphysics Problems)			
14:45 – 15:10	Predicting capacity of defected pipe under bending moment with data-driven model	Phan Chi Hieu (online)	Le Quy Don Technical University
15:10 – 15:35	Development of automatic landing control algorithm for fixed-wing uavs in longitudinal channel in windy conditions	Tran Hong Son	Le Quy Don Technical University
15:35 – 16:00	Investigation of Maneuvering Characteristics of High-Speed Catamaran Using CFD Simulation	Thi Loan Mai (online)	Changwon National University
16:00 – 16:25	Isogeometric Analysis for A Phase-Field Model of Vesicles Under the Influence of An Electric Field	Navid Valizadeh (online)	Bauhaus University - Weimar
16:25 – 16:40	Short break		
Session Chairs: Nguyen Van Tuong & Ngo Thi Hoa (Additive Manufacturing)			
16:40 – 17:05	Design - fabrication am - rewrap equipment using fused deposition modeling (FDM) for training	Huynh Huu Nghi	Ho Chi Minh University of Technology
17:05 – 17:30	Project Based Teaching Skills for The Course Design of Additive Manufacturing System	Tuong Nguyen Van	Nha Trang University
17:30 – 17:55	Dlp 3d Printer Control System	Ngo Thi Hoa	Vanlang University

17:55 – 18:20	Multi Object Prediction and Optimization Process Parameters in Cooling Slope Using Taguchi-Grey Relational Analysis	Nguyen Anh Tuan	Le Quy Don University
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SESSION 2B.2: The 3rd December 2020

Location: **Hoang Sa 1 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Tran Van Lien & Nguyen Anh Dung (Dynamics)			
14:45 – 15:10	Natural Frequency Analysis of Multi-Span Nanobeams Made of Functionally Graded Materials	Tran Van Lien	National University of Civil Engineering
15:10 – 15:35	Free Vibration of Prestress Two-Dimensional Imperfect Functionally Graded Nano Beams Partially Resting on Elastic Foundation	Le Thi Ha	University of Transport and Technology
15:35 – 16:00	Dynamic Performance of Highway Bridges: Low Temperature Effect and Modeling Effect of High Damping Rubber Bearings	Anh Dung Nguyen	Thuyloi University
16:00 – 16:25	Free vibration of a bi-directional imperfect functionally graded sandwich beams	Le Thi Ha	University of Transport and Communications,
16:25 – 16:40	Short break		
Session Chairs: Hoang Van Huan & Nguyen Quoc Y (Flow Problems)			
16:40 – 17:05	Enhancing Ventilation Performance of a Solar Chimney with A Stepped Absorber Surface	Nguyen Quoc Y	Van Lang University
17:05 – 17:30	The Effect of Ground Surface Geometry on The Wing Lift Coefficient	Tran Dinh Khoi	Le Quy Don Technical University
17:30 – 17:55	New Concept Design Base on The Effect of The Air Gap on LCP Full Filling in Micro-Injection Molding	Tran Quang Phuoc	Ho Chi Minh University of Technology
17:55 – 18:20	Design A Small, Low-Speed, Closed-Loop Wind Tunnel: CFD Approach	Phan Thanh Long	University of Danang

SESSION 2B.3: The 3rd December 2020

Location: **Hoang Sa 2 Meeting Room, 6F, L-V Building, Van Lang University Campus 3**

Virtual conference: <https://icomma.org/page/virtual-conference-68.html>

Time	Content (Title)	Speaker	Affiliation
Session Chairs: Pham Thai Hoan & Nguyen Phu Cuong (Composites and Hybrid Structures)			
14:45 – 15:10	An Artificial Intelligence Approach for Predicting Compressive Strength of Eco-Friendly Concrete Containing Waste Tire Rubber	Doan Thi Ngoc Canh	University of Danang
15:10 – 15:35	Nanoindentation For Mechanical Properties of Microstructure in Ultra-High-Performance Concrete	Thai-Hoan Pham	National University of Civil Engineering
15:35 – 16:00	Finite Element Modelling for Concrete Encased Steel Using High Strength Materials	Phu-Cuong Nguyen	Ho Chi Minh City Open University
16:00 – 16:25	An application of johnson-cook damage model in small punch test simulation for type 304- austenitic stainless steel	Pham Thi Hang	Vietnam National University of Agriculture
16:25 – 16:40	Short break		
Session Chairs: Tran Van Lien & Dang Xuan Hung (Composites and Hybrid Structures)			
16:40 – 17:05	Elastic Buckling Behavior of FG Polymer Composite Plates Reinforced With Graphene Platelets Using The Pb2-Ritz Method	Tran Dai Hao	National University of Civil Engineering
17:05 – 17:30	Post-Buckling Response of Functionally Graded Porous Plates Rested on Elastic Substrate Via First-Order Shear Deformation Theory	Le Thanh Hai	Vinh University
17:30 – 17:55	Nonlinear Bending Analysis of FG Porous Beams Reinforced with Graphene Platelets Under Various Boundary Conditions by Ritz Method	Huong Quy Truong	National University of Civil Engineering
17:55 – 18:20	Nonlinear Vibration of Shear Deformable Fg-Cntrc Plates and Cylindrical Panels Stiffened by Fg-Cntrc Stiffeners	Vu Hoai Nam	University of Transport Technology

SESSION 2B.4: The 3rd December 2020

Location: Ha Noi Meeting Room, 2F, L-V Building, Van Lang University Campus 3

Session Chairs: Nguyen Tien Khiem (President of VAM) & Tran Thi My Dieu (Rector of VLU)

- 16:40 – 18:20: Conference of VAM & VLU

CLOSING PLENARY (18:30 – 18:50)

- **Location: N2T1 Conference Hall, Van Lang University Campus 3**
- + 18:30 – 18:50: Closing remarks by ICOMMA Chairman

