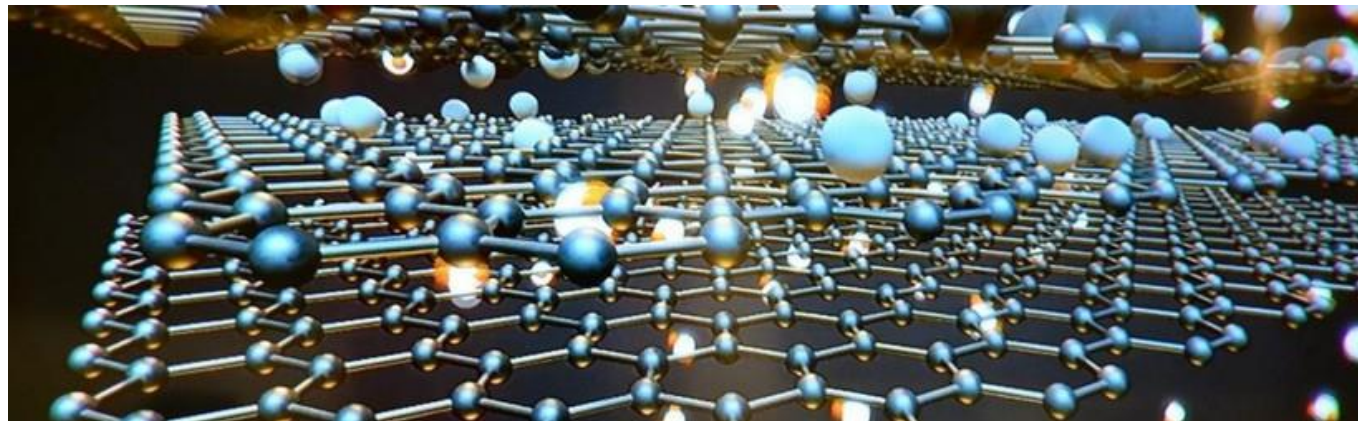**International Joint Seminar on**

ADVANCES IN CIVIL ENGINEERING

Applications of Advanced Materials and Machine Learning in Civil Engineering

Time: 14:00-17:00 (GMT +7), December 04, 2021 (Saturday)

Venue: Room 415, Vietnam Japan University (VJU), Luu Huu Phuoc, Nam Tu Liem Dist., Hanoi

Zoom link: https://zoom.us/j/95874597372; ID: 958 7459 7372

Chairman	**Prof. Dr.Sci Nguyen Dinh Duc**	
	Director of Undergraduate and Postgraduate Academic Affairs Department, VNU Hanoi *Dean of Department of Engineering and Technology in Constructions and Transportation, University of Engineering and Technology, VNU Hanoi* *Director of MIE Program, VJU*	

PROGRAM

13:30 (30′)	**Welcome and Introduction**	
14:00 (40′)	**Prediction of steel structures' responses using machine learning: Prospects and challenges** *Dr. Truong Viet Hung, ThuyLoi University, Vietnam*	
14:40 (40′)	**Research and Applications of 3D printing: Current problems and future direction** *Dr. Phuong Tran, RMIT University Melbourne, Australia*	
15:20 (40′)	**On Applications of DC algorithm and machine learning** *Dr. Tran Duc Quynh, VNU International School, Vietnam*	
16:00 (40′)	**Image-language collaborative AI that reflects expert knowledge to inspect and diagnose bridges** *Assoc.Prof. Dr. Pang-Jo Chun, The University Tokyo, Japan*	
16:40 (40′)	**Bridge inspection, damage detection and monitoring using UAV, AI and IoT** *Assoc.Prof. Dr. Ji Dang, Saitama University, Japan*	

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