

THANK YOU FOR COMING







INTERNATIONAL CONFERENCE

CIGOS 2019

INNOVATION FOR SUSTAINABLE INFRASTRUCTURE

https://cigos2019.sciencesconf.org



Hanoi, **2**019

(The venue: Grand Plaza Hanoi Hotel, 117 Tran Duy Hung, Ha Noi, Vietnam)



Introduction

Since 2010, with the great success of all four consecutive events, CIGOS (Congrès International de Géotechnique - Ouvrages - Structures) has firmly established its international reputation and is perceived as an important conference for promoting both academic and professional high-quality exchanges in the fields of Geotechnics, Civil Engineering Works and Structures. This, the fifth International Conference - CIGOS 2019 held in Hanoi, Vietnam, is co-organized by the Association of Vietnamese Scientists and Experts (AVSE Global) in collaboration with the University of Transport Technology (UTT) and in partnership with the Ecole Normale Supérieure de Paris-Saclay (ENS).

CIGOS 2019 places particular focus on the theme of "Innovation for Sustainable Infrastructure", aiming to not only raise awareness of the vital importance of sustainability in infrastructure development but also highlight the essential roles of innovation and technology in helping to plan and build sustainable infrastructure. Having built on the success of CIGOS 2017, this year's conference see almost double the number of published papers, which include 8 keynote lectures, about 170 oral presentations and 40 posters. The peer-reviewed papers are published online by the international publisher Springer as a volume in the Lecture Notes in Civil Engineering series, indexed by SCOPUS.

We wish to acknowledge the wonderful support of the scientific committee and the external reviewers, who provided valuable assistance in the review process and undoubtedly made a tremendous contribution in raising the quality of the proceedings. We are thankful to the keynote speakers, authors and participants for their enthusiastic efforts and time in preparing valuable papers as well as bringing encouragement and inspiration to the conference. Our special thanks also to the organizing committee, without whom it would have been difficult to run this conference. Last but not least, we would also like to thank all sponsors for their support and generosity in making our CIGOS 2019 such a success.

Ha Minh Cuong and Dao Van Dong
On behalf of the CIGOS Organizing Committee
Website: https://cigos2019.sciencesconf.org
Email: cigos@a-vse.org

Keynote speakers



Hojjat Adeli
Professor, Ohio State University
& Editor-in-Chief of ComputerAided Civil and Infrastructure
Engineering, USA

Hojjat Adeli received his Ph.D. from Stanford University in 1976 at the age of 26. He is currently an Academy Professor at The Ohio State University where he held the Abba G. Lichtenstein Professorship for ten years. He has authored over 600 research and scientific publications in various fields of computer science, engineering, applied mathematics, and medicine, including 16 ground-breaking high-technology books, and holds a United States patent in the area of design optimization. He is the recipient of 55 awards and honors including an Honorary Doctorate.

In 1998 he received the Distinguished Scholar Award, The Ohio State University's highest research award "in recognition of extraordinary accomplishment in research and scholarship". In 2005, he was elected Distinguished Member, ASCE: "for wide- ranging, exceptional, and pioneering contributions to computing in civil

engineering and extraordinary leadership in advancing the use of computing and information technologies in many

engineering disciplines throughout the world." In 2007 he received the Peter L. and Clara M. Scott Award for Excellence in Engineering Education and Charles E. MacQuigg Outstanding Teaching Award from OSU.

In 2010, he was profiled as an Engineering Legend in the ASCE journal of Leadership and Management in Engineering. He has presented 110 Keynote/Pleary Lectures at conferences held in 44 different countries. He has held Honorary/Distinguished

Professorship at six Asian and European Universities, and served as Honorary Chair or member of the organizing/scientific board of nearly 400 conferences held in 64 different countries. He is a corresponding member of the Spanish Royal Academy

of Engineering, a foreign member of Lithuanian Academy of Sciences and Polish Academy of Science, and a Fellow of AAAS, IEEE, AIMBE, and American Neurological Association. He is a Clarivate Analytics Highly Cited Researcher in two categories of Computer Science and Engineering.

Keynote:

Machine Learning – An Increasingly ubiquitous Technology in the 21st Century

Keynote speakers



Laurence Rilett
Professor, Director of the Nebraska
Transportation Center and the MidAmerica Transportation Center, USA

Dr. Laurence R. Rilett is a Distinguished Professor of Civil Engineering and his field of research is in the transportation system analysis area. He has been a principal investigator or co-principal investigator on over 30 research projects with total funding in excess of \$45 million. His research sponsors have included the U.S.D.O.T., the National Science Foundation, the Texas Department of Transportation, the Nebraska Department of Roads, the U.S. Environmental Protection Agency, the US Department of Defense Transportation Command (TRANSCOM), and the Federal Railway Administration.

Dr. Rilett's field of research is in the transportation system analysis area and his specific research may be divided into two main areas: Intelligent Transportation Systems applications and large-scale transportation system modeling. He has authored or co-authored over 70 refereed journal papers and

over 80 conference papers based on his research. In 2002 he was awarded the Texas Transportation Institute TTI/Trinity Researcher Award, in 2007 he was awarded the UNL College of Engineering Research Award, and in 2015 he was awarded the National Strategic Research Institute Distinguished Scientist Award. Dr. Rilett is the Managing Editor of the ASCE Journal of Transportation Engineering and on the editorial board of the Journal of Intelligent Transportation Systems:

Technology, Planning, and Operations.

Keynote:

Using Simulation to Estimate and Forecast Transportation Metrics

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Keynote speakers



Ben Young
Professor Vice President (Student
Affairs) of The Hong Kong
Polytechnic University & Co-Editorin-Chief of the Journal of
Constructional Steel Research

Professor Ben Young is currently the Vice President (Student Affairs) of The Hong Kong Polytechnic University. He was Associate Dean of the Graduate School, Associate Dean of the Faculty of Engineering at The University of Hong Kong (HKU). He received BSc, BEng and PhD degrees from The University of Sydney, Australia in 1991, 1993 and 1998, respectively.

Professor Young is the Vice-President of the Hong Kong Institute of Steel Construction. He is a committee member of the SEI/ASCE-8 Specification for the "Design of Cold-formed Stainless Steel Structural Members", American Society of Civil Engineers. His research interests include cold-formed steel structures, testing and design of steel structures, high strength steel structures, stainless steel structures, aluminium structures, structural stability, fire resistance of metal structures and engineering education. Professor Young is currently a Co-Editor- in-Chief of the Journal of Constructional Steel Research, ELSEVI-

ER. He has published over 500 international journal and conference papers, of which over 240 are SCI indexed journal papers. He has an h-index of 40 in Scopus. According to the ISI's essential science indicators, Professor Young has been listed for many years in the "Top 1% scholars" for highly cited papers.

Professor Young received the Michael G. Gale Medal for Distinguished Teaching Award in 2004 from The Hong Kong University of Science and Technology. He also received the Best Teacher Award in 2006, the Outstanding Young Researcher Award in 2006, the Outstanding Teaching Award in 2008, the Outstanding Research Student Supervisor Award in 2015 and the Outstanding Researcher Award in 2017 from The University of Hong Kong. Professor Young also received the Best Research Paper Award given by the Journal of Structures, ELSEVIER in 2016.

Keynote:

Austenitic and Lean Duplex Stainless Steel Bolted Connections at Elevated Temperatures



Suzanne Lacasse
Expert Adviser at the Norwegian
Geotechnical Institute (NGI),
Norway

Dr Suzanne Lacasse was born in Noranda, Québec. She did a Bachelor of Art at University of Montréal and her civil engineering studies at Ecole Polytechnique of Montréal and MIT. After 12 years on MIT's faculty, she moved to the Norwegian Geotechnical Institute (NGI).

She became Managing Director of

NGI in 1991, a position she held until 2011. She gave the 37 th Terzaghi Lecture in 2001, the 55 th Rankine Lecture in 2015, the 8 th ISSMGE Terzaghi Oration in 2013 and the 9 th Coulomb Lecture in 2011. Dr Lacasse received PhD's Honoris Causa from the University of Dundee, the Norwegian University of Science and Technology and the University du Québec. She is elected member of the National Academy of Engineers in the US, Canada, Norway and France. She is member of the Royal Society of Canada, the Royal Academy of Norway and the Academy of Sciences and Letters in Norway. She is Honorary Professor at Tongji University in Shanghai and at Zhejiang University in Hangzhou.

Keynote: Innovation Reduces Risk for Sustainable Infrastructure



Manfred Boltze
Professor, Head of Institute for
Transport Planning and Traffic
Engineering, Technische
Universität Darmstadt, Germany

Manfred Boltze is professor for Transport Planning and Traffic Engineering at Technische Universität Darmstadt (Germany) since 1997. He studied civil engineering and received a doctor degree for his work on traffic signal control in 1988. His research covers a broad range of traffic and transport related topics, such as planning methodology, traffic management, Intelligent Transport Systems, road traffic signals, traffic safety, and transport and health. 34 doctoral students and more than 200 Diploma and Master students graduated under his supervision. 190 publications, memberships in editorial boards and advisory boards, and many other activities indicate his comprehensive commitment to promote research and education in his discipline. Since 2004, Manfred Boltze is committed in Vietnam. From 2009 until 2014, he was Director of the Vietnamese-German Transport Research Centre at the Vietnamese-German University. In 2014, he was decorated with a medal "For Significant Contributions to the Transport Development of Vietnam" by the Vietnamese Minister of Transport, and

in 2017 with a medal "For the Cause of Education" by the Vietnamese Minister of Education and Training.

Keynote:

eHighway - An Infrastructure for Sustainable Road Freight Transport

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Keynote speakers



Jose Turmo
Professor of Technical University of
Catalonia BarcelonaTech (UPC), Spain

Jose TURMO (Spain, 1974) got his 6-year program degree in Civil Engineer (1998) from University of Cantabria (Santander, Spain) and his PhD (2003) in Construction Engineering from Technical University of Catalonia BarcelonaTech - UPC (Barcelona, Spain). At the moment, he is Professor in the School of Civil Engineering in Barcelona. BarcelonaTech (Spain), where he teaches Construction Engineering. His area of expertise is Construction and Maintenance of Concrete Bridges and Structures and Structural System Identificaction. Topics as different as structural behaviour of externally prestressed concrete bridges, applications of high performance concrete, shear strength of concrete structures, dynamics of cable suspended bridges, structural analysis of bridge construction, structural

maintenance or model updating has been addressed by him, as well as improvement of health and safety and environmental issues of bridge construction. He has done several research stays as a postdoc, being appointed as Visiting Faculty at the Indian Institute of Technology, Madras (2005), Fulbright Scholar at the University of California, San Diego, USA (2006) and Kwang-Hua Visiting Professor (2010) and High End Foreign Expert (2014-2016) at the Department of Bridge Engineering, Tongji University, Shanghai, China. He has authored around forty SCI papers and seventy conference papers. He is an international expert of CTI (Quality Assurance Agency for the Schools of Engineering in France). He is member of ACHE, IABSE and IABMAS. He organized the IV 2018 Barcelona EUCEET Civil Engineering Education International Conference and he is organizing the

Keynote:

Industrialized construction of medium span concrete bridges using movable false work



Mirosław J. Skibniewski
Professor of University of Maryland,
USA Editor-in-Chief of the
journal of Automation in
Construction

Dr. Mirosław J. Skibniewski is a Professor of Construction Engineering and Project Management in the Department of Civil and Environmental Engineering in the A. James Clark School of Engineering at the University of Maryland, College Park. Prior to his current appointment he served for 20 years as a faculty member and administrator at Purdue University in West Lafayette, Indiana. He received his M.Eng. degree from Warsaw University of Technology. and M.S. and Ph.D. degrees from arnegie-Mellon University, Prof. Skibniewski is also an alum of the Harvard University Graduate School of Education Management Development Program. Prior to his academic career he worked as an engineering professional with the 135 years-old Pittsburgh Testing Laboratory, a nationwide construction engineering consulting firm in Pennsylvania (later renamed to Professional Service Industries, Inc.www.psiusa.com) where he led structural and construction safety investigations, design quality reviews, structural

testing, construction claims reviews, value engineering, and forensic engineering projects.

Keynote:

Ensuring success with 3D printing applications in construction



Adam Matthews
Head of International for the UK
Government's Building Information
Modelling - Chairman of the EU
BIM Task Group, UK

Adam Matthews MBA is Head of International for the UK Government's Building Information Modelling (BIM) Task Group (Digital Built Britain) and Chairman of the EU BIM Task Group. Adam leads the UK's Digital Built Britain International programme, sharing the UK's strategic approach for the national introduction of BIM, its experience and lessons learned with governments around the world. He leads the collaboration with policy officials, public asset owners and public agencies across Europe, Latin America and Asia. The international team provides

strategic insights and technical assistance to governments for the national introduction of BIM. This builds common understanding across countries in support of global infrastructure development and joint prosperity. He is Chairman of the European Union BIM Task Group, a public sector network from over 20 nations which is

co-funded by the European Commission to develop a common framework for the introduction of BIM by the European public sector. With over 25 years' experience in information technology and change management across various sectors, including infrastructure, retail and airports, he led the information exchange recommendation for the UK Government's BIM Strategy (2011) and co-authored the EU BIM Task Group Handbook (2017). Adam holds an MBA with a focus on sustainability and public policy for the construction sector from Kingston University, London.

Keynote

Applying a national BIM model to Vietnam's National Implementation of BIM: Lessons learned from the UK-Vietnam collaboration for the Industry

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TA Ngoc Binh	Institute of Construction Economics, Vietnam
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WU Wei	California State University, USA

DML - Data mining & Machine learning

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TANG Pingbo	Arizona State University, USA

GEE - Geotechnics for environment and energy

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TRAN NGUYEN Hoang Hung	Hochiminh City University of Technology, Vietnam
WONG Henry	ENTPE, France
WU Li	China University of Geosciences, China

SCMT - Sustainable Construction Materials and Technologies

ASHRAF Məhmud	Deakin University, Australia
BEAKOU Alexis	IFMA/SIGMA Clermont, France
BENBOUDJEMA Farid	ENS Paris Saclay, France
BUI Ha	Monash University, Australia
BUI Quoc Tinh	Tokyo Institute of Technology, Japan
DOTELLI Giovanni	Politechnico Milano, Italy
FORTH John	School of Leeds, UK
GARIBALDI Luigi	Politecnico di Torino, Italy
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TRAN Minh Tung	Ton Duc Thang University, Vietnam
VU Xuan Hong	University of Lyon 1, France
YVONNET Julien	University of Paris Est Marne-la-Vallée, France

SSC - Smart and sustainable cities

BUTTON Cat	University of Newcastle, UK
CHAN Tak-Ming	Hong Kong Polytechnic University, Hong Kong
DERRIBLE Sybil	University of Illinois at Chicago, USA
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HSU Mark Shu-Chien	Hong Kong Polytechnic University, Hong Kong
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NGUYEN Chuong	CSIRO - Data61, Australia
NGUYEN Xuan Thinh	TU Dortmund University, Germany
QUAN LUNA Byron	DNV GL, Norway
TRINH Toan	University of California, USA

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UPTE - Urban Planning, Transport and Environment

DANG Thuc Trang	Scene Plus Co.Ltd., Vietnam
DO Thuan An	Thuy Loi University, Vietnam
HO Chinh	The University of Sydney, Australia
LECARON Jacques-Emile	Lecaron architect, France
NGUYEN Frédéric	University of Liège, France
NGUYEN Vən-Thənh-Vən	Mc Gill University, Canada
RILETT Laurence	Nebraska transportation center and the mid-america transportation center, USA

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VU Trung Hieu	Department of Science, Technology & International Cooperation

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Conference Schedule Details

(Thursday, October 31, 2019)

TIME	EVENT	
07:30 onwards	CIGOS Registration	
08:30 - 09:30	Welcome ceremony Music: Traditional drum performance Speeches: UTT, AVSE Global, MOT Honorary Doctorate Awarding Ceremony (and group photo)	Venue: 2 nd floor
09:30 - 10:10	Plenary Session 1 Chairs: Rolf Katzenbach & Dong Van Dao	Venue: 2 nd floor
09:30 - 10:10	Keynote 1: Machine Learning – An Increasin Century - <u>Hojiat Adeli</u> , Ohio State University,	• • • • • • • • • • • • • • • • • • • •
10:10 - 10:40	Coffee break	Venue: 2 nd floor
10:40 - 12:00	Plenary Session 2 Chairs: Laurence Rilett & Anh Minh Tang	Venue: 2 nd floor
10:40 - 11:20	Keynote 2: Using Simulation to Estimate an Lessons Learned - <u>Laurence Rilett</u> , the Nebr Mid-America Transportation Center, USA	·
11:20 - 12:00	Keynote 3: Austenitic and Lean Duplex Stain Elevated Temperatures - <u>Ben Young</u> , The Ho	
12:00 - 13:30	Lunch	Venue: 1 st floor
13:45 - 15:35	Parallel Session 1A Topic: Advanced Modeling and Characterization Chairs: Ben Young & Khuong Le Nguyen	Venue: 505 – 5th floor of Structures
13:45 - 13:57	> The inadequacies of the existing Structural Heat bridges in Vietnam - <u>Minh Chính Lương⁽⁷⁾, ⁽⁷⁾Thuy</u>	
13:57 - 14:09	> Assessment of methods of riprap size selection abutments and approach embankments - <u>Quan</u> of Transport and Communications, Vietnam	5
14:09 - 14:21	> Numerical investigation of derailment loading of implementation in the Sydney Harbour Bridge - Hosseini, (*) Western Sydney University, Australia	<u>Olivia Mirza^(*), Micah Fountain, Maryam</u>
14:21 - 14:33	> The study on the behavior of the simply suppor the intermediate bracing system in the construc <u>Mayven</u> ⁽⁷⁾ , Lien Thuc Pham, Ngoc Thi Huynh, ⁽⁷⁾ Vi - University Of Techonology, Vietnam	ction stage - <i>Van Nam Le, <u>Anh Rin</u></i>

14:33 - 14:45	> Effects of Random Road Unevenness on Dynamic Impact Factor of multi-span Super T Girder Bridge with Link Slab due to Moving Vehicles - <i>Xuan-Toan Nguyen</i> , <u>Duy-Thao</u> <u>Nguyen</u> (*),(*)The University of Danang - University of Science and Technology, Vietnam
14:45 - 14:57	> Fracture analysis of crack propagation on the diaphragm of steel bridge structures - <i>The Truyen Tran</i> ⁽⁷⁾ , <i>Tung Bui, Hieu Nguyen, Quoc Doan, Anh Nguyen, ⁽⁷⁾University of Transport and Communication, Vietnam</i>
14:57 - 15:09	> Flexural Capacity Accounting for SBHS500 Steel of Composite Bridge Girders - <u>Viet Duc</u> <u>Dang</u> ^(*) , Yoshiaki Okui, ^(*) Thuy Loi University, Vietnam
15:09 - 15:21	> A current-state-of-the-art on design rules vs test resistance of Cross Laminated Timber members subjected to transverse loading - <i>Xin Li, Mahbube Subhani, <u>Mahmud Ashraf</u>^{cl}, Bidur Kafle, Paul Kremer, ⁽¹⁾Deakin University, Australia</i>
15:21 - 15:33	> A review on protection methods against debris accumulation for bridge in mountain areas - <u>Quang Huy Maf</u> , Dang Phong Nguyen, ^(*) The University of Transport and Communications, Vietnam
13:45 - 15:35	Parallel Session 1B Venue: 508 – 5 th floor Topic: Sustainable Construction Materials and Technologies Chairs: Jonathan Page & Quang Huy Nguyen
13:45 - 13:57	> Mechanical properties of fly ash based geopolymer concrete using only steel slag as aggregate - <u>Van Dong Dao</u> ⁽²⁾ , <u>Hoang Son Trinh</u> , ⁽¹⁾ University of Transport Technology, Vietnam
13:57 - 14:09	> Effect of fly ash on the mechanical properties and drying shrinkage of the cement treated aggregate crushed stone - <u>Van Quan Ho</u> ^(*) , Van Tuoi Nguyen, V. Chau Nguyen, ^(*) The University of Danang - University of Technology and Education, Vietnam
14:09 - 14:21	> Experimental Study on Effect of Ground Granulated Blast Furnace Slag of Strength and Durability of Sand Concrete - <i>Thanh Sang Nguyen, Khoa Nguyen</i> (*), (*) Dong A University, Vietnam
14:21 - 14:33	> Strength of Granulated Blast Furnace Slag during Hydration Reaction Process - <u>Thanh</u> <u>Nhan Tran</u> (*), Matsuda Hiroshi, Thach Tran Xuan, Vien Nguyen Dai, Thanh Ho Trung, (*)University of Sciences, Hue University, Vietnam
14:33 - 14:45	> Effect of Ground Granulate Blast Furnace Slag in Replacement of Cement in Ternary Binder on Performance of Sand Concrete - <u>Thanh Sang Nguyen</u> ^(*) , (*)University of Transport and Communications, Vietnam
14:45 - 14:57	> Evaluation of Macro-Synthetic Fibre Reinforced Concrete as a Sustainable Alternative for Railway Sleepers - <u>Christophe Camille</u> (*), Kahagala Hewage Dayani Nayantha, Olivia Mirza, Fidelis Mashiri, Brendan Kirkland, Todd Clarke, (*) Western Sydney University, Australia
14:57 - 15:09	> Use of coal ash of thermal power plant for highway embankment construction - <u>Tung</u> <u>Hoang</u> ^(*) , Viet-Phuong Nguyen, Hong-Nam Thai, ^(*) National University of Civil Engineering
15:09 - 15:21	> A model of local kinetics of sorption to understand the water transport in bio-based materials - Nicolas Reuge, Florence Collet, Sylvie Pretot, Sophie Moissette, Marjorie Bart, <u>Christophe Lanos</u> (1), (1) Laboratoire de Génie Civil et Génie Mécanique (LGCGM), France
15:21 - 15:33	> Analysis of strain measurements in large span soil-steel bridge structure - <u>Adam</u> <u>Czerepak</u> ", ("ViaCon SP. Z O.O., Poland

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13:45 - 15:35	Parallel Session 1C Venue: 502 – 5 th floor Topic: Geotechnics for Environment and Energy Chairs: Rolf Katzenbach & Van Hung Nguyen
13:45 - 13:57	> Modeling on Cuttings Transport in Inclined and Horizontal Well Drilling - <i>Quang Khanh Do, Trong Tuan Dat Truong, <u>Phuc Kieu</u>⁽⁷⁾, Thi Mai Huong Tran, Trong Quang Hoang, (⁷⁾HoChiMinh City University of Technology (HCMUT), Vietnam National University - HoChiMinh City (VNU-HCM), Vietnam</i>
13:57 - 14:09	> Enhanced Oil Production in the lower Miocene reservoir by Multistage Fracturing, Offshore Viet Nam - <u>Huu Truong Nguyed</u> ⁷⁷ , ⁽⁷⁾ Petrovietnam University, Vietnam
14:09 - 14:21	> A mathematical model for fault activation by water injection - <u>Son Nguyerf</u> ", Jonny Rutqvist, Bastian Graupner, Yves Guglielmi, ^(*) Canadian Nuclear Safety Commission, Canada
14:21 - 14:33	> Abnormal pore pressure and fracture pressure prediction for Miocene reservoir reservoir, field X in Vietnam - <i>Van Hung Nguyen</i> ⁽⁷⁾ , (7) Petrovietnam University, Vietnam
14:33 - 14:45	> Modeling Stress Distribution Around Boreholes - <i>Quang Khanh Do, Thi Tam Thanh Nguyen, Phuc Kieu⁽⁷⁾, Huynh Nhan Vo, Trong Quang Hoang, ⁽⁷⁾HoChiMinh City University of Technology (HCMUT), Vietnam National University - HoChiMinh City (VNU-HCM), Vietnam</i>
14:45 - 14:57	> The failure envelope of new shaped cross-plates foundation for deepwater soft soils - <u>Emilio Nicolinf</u> ⁽⁷⁾ , Alessandro Alberio, Matteo Castelletti, ⁽⁷⁾ Cathie, France
14:57 - 15:09	> Full-scale Pullout Testing of Ground Anchors to Evaluate the Applicability of French Design Practice TA95 for Vietnam - <u>Ngoc Thanh Nguyen</u> (*), Nguyen Phuong Duy, (*)Hanoi Architecture University, Vietnam
15:09 - 15:21	> Application of Steel Pipe Piles with Wings installed in Soil Cement Column for Building Structure in Vietnam - <u>Hoang Kien Pham</u> ⁽⁷⁾ , Daisuke Ito, ⁽⁷⁾ University of Transport and Communications - UTC, Vietnam
15:21 - 15:33	> Shape effects in the dynamical response of flints/boulders during pile driving – a numerical study <i>Emilio Nicolinf</i> ¹ , <i>Ivan Terribile</i> , ¹⁷ Cathie, France
13:45 - 15:35	Parallel Session 1D Venue: 503 – 5 th floor Topic: Urban Planning, Transport and Environment Chairs: Yoshinori Fukubayashi & Hong Quan Nguyen
13:45 - 13:57	> Application of WIN-TR55 for calculating designed flood in small watersheds in mountainous region of vietnam - <i>Thi Noi Doan</i> (*), (*) The University of Transport and Communications (UTC), Vietnam
13:57 - 14:09	> Green infrastructure modelling for assessment of urban flood reduction in Ho Chi Minh city - Hong Quan Nguyer!, Hieu Nguyen, Thu Tran, Matthew Buchanan, Canh Nguyen, Mariana Santos, Luan Pham, Hoang Tran, Phung Huynh, Canh Khuu, Mitchel Smith, (1) Institute for Computational Science and Technology, Ho Chi Minh City, Center of Water Management and Climate Change (WACC), Vietnam National University — Ho Chi Minh City (VNU-HCM), Vietnam
14:09 - 14:21	> Climate Change Impact on Urban Flooding in Quynhon City, Vietnam - <u>Duc Phuoc Vo</u> (*), Bhuiyan Muhammed, Ngoc Duong Vo, (*)University of Science and Technology, The

	University of Danang, Vietnam; School of Engineering, RMIT University, Melbourne, Australia
14:21 - 14:33	>The impacts of urbanization on urban flooding in Danang City, Vietnam - <i>Thuy Nga To,</i> <u>Huy Cong Vu⁽²⁾</u> , Hung Le, ⁽²⁾ The University of Danang, University of Science and Technology, Vietnam
14:33 - 14:45	> Low Impact Development, a novel technique for cutting down urban flooding in Quynhon city, Vietnam - <u>Duc Phuoc Vo</u> (*), A. Bhuiyan Muhammed, Ngoc Duong Vo, (*)University of Science and Technology, The University of Danang, Vietnam; School of Engineering, RMIT University, Melbourne, Australia
14:45 - 14:57	> Typhoon Wave Modelling For Viet Nam Central Region <u>Ngoc Duong Vo</u> (*), Quang Binh Nguyen, Cong Phong Nguyen, (*) Da Nang University of Technology, Vietnam
14:57 - 15:09	> Remote sensing application for evaluating the impact of land cover change on Danang city's land surface temperature <u>Ngoc Duong Vo</u> ⁽²⁾ , Quang Binh Nguyen, ⁽²⁾ Da Nang University of Technology, Vietnam
15:09 - 15:21	> Research on application of flowforms in combination with planted constructed wetland for improving water quality of urban polluted lakes - <i>Thi Thuy Ha Ung^(*)</i> , <i>Tuan Hung Pham, Tho Bach Leu, Thi Hien Hoa Tran, Hong Nhung Chu, ^(*)National University of Civil Engineering, Hanoi, Vietnam</i>
15:21 - 15:33	> Using HCM Method in estimation the highway capacity and recommendation traffic management for a section of national highway #5 - VietNam - <u>Trung Hieu</u> <u>Tran^(*)(*)*University of Transport Technology, Vietnam</u>
15:35 - 16:35	Poster Session & Coffee Break Venue: 5 th floor
16:35 - 18:35	Parallel Session 2A Venue: 505 – 5 th floor Topic: Advanced Modeling and Characterization of Structures Chairs: Mahmud Ashraf & The Truyen Tran
16:35 - 16:47	> Investigation into the response variability of a higher-order beam resting on a foundation
	using a stochastic finite element method - <i>Duy Hien Ta, <u>Hang Do Thi</u>¹⁷, Tien Thanh Bui, Ngoc Long Nguyen, Van Thuan Nguyen,</i> ⁽⁷⁾ <i>University of Transport and Communications, Ha Noi, Vietnam</i>
16:47 - 16:59	Ngoc Long Nguyen, Van Thuan Nguyen, ^(*) University of Transport and Communications, Ha
16:47 - 16:59 16:59 - 17:11	Ngoc Long Nguyen, Van Thuan Nguyen, ("University of Transport and Communications, Ha Noi, Vietnam" > Improved rigid-plastic method for predicting the ultimate strength of concrete walls restrained on three sides - Jeung-Hwan Doh, Nhat Minh Ho", Tim Peters, ("EDGE")

17:23 - 17:35	> Non-linear deformational analysis of reinforced concrete frame - <u>Thi Thuy Van Tran</u> (¹), Quyen Vu Thi Bich, ⁽² Hanoi Architectural University, Vietnam
17:35 - 17:47	> Finite Element Analysis of Reinforced Concrete beams subjected to combined actions - <u>Tuan-Anh Nguyen'</u> , Quang-Huy Nguyen, Hugues Somja, ^(*) University of Transport and Communications - UTC, Vietnam; Institut National des Sciences Appliquées - Rennes, France
17:47 - 17:59	> Finite Element Modelling for Axially Loaded Concrete-Filled Steel Circular Tubes - <u>Duc-Duy Phamf</u> ⁽²⁾ , Phu-Cuong Nguyen, ⁽²⁾ Ho Chi Minh City Open University, Vietnam
17:59 - 18:11	> Reliability Evaluation of Eurocode 4 for Concrete-Filled Steel Tubular Columns - <u>Huu Tai</u> <u>Thaf</u> ⁽²⁾ , Son Thai, ⁽²⁾ The University of Melbourne, Australia
18:11 - 18:23	> Investigation and potential modelling of composite truss beams - <u>Jan Bujnak</u> ^(*) , Peter Michalek, ^(*) University of Žilina, Slovakia
18:23 - 18:35	> Riding comfort assessment of high-speed trains based on vibration analysis - <i>Van Nguyen Dinh, Ki-Du Kim, <u>Tuan Hai Dinh</u>^(*)Hanoi Architectural University, Vietnam</i>
16:35 - 18:35	Parallel Session 2B Venue: 508 – 5 th floor Topic: Sustainable Construction Materials and Technologies Chairs: Sung-Sik Park & Cuong Ha-Minh
16:35 - 16:47	> Fatigue characterization of conventional and high rutting resistance asphalt mixtures using the cyclic indirect tensile test - <u>H.T. Tai Nguyen</u> ⁽²⁾ , Anh-Thang Le, Vu-Tu Tran, Duy-Liem Nguyen, ⁽²⁾ Ho Chi Minh City University of Technology and Education, BMT Construction Investment J.S.C., Vietnam
16:47 - 16:59	> Evaluating the change in the properties of bitumen during production, transport and construction of hot mix asphalt in the conditions of Vietnam - K.H. Quang Trinh, T. Nhan Tran, H.T. Tai Nguyen ^(*) , (*) Ho Chi Minh City University of Technology and Education, BMT Construction Investment JSC, Vietnam
16:59 - 17:11	> Creep behavior and rutting resistance of asphalt pavements by experimental testing and Finite Element modelling - <u>Van Bac Nguyen</u> ("), Chau Phuong Ngo, Ngoc Bay Pham, Thanh Phong Nguyen, <u>Van Phuc Le</u> ("), Van Hung Nguyen, (")University of Transport and Communications, Campus in Ho Chi Minh City, Vietnam
17:11 - 17:23	> Application of Asphalt Concrete using Limestone with Cement & Admixture - Hoang Nguyen, Hung Pham, <u>Khanh Tran</u> ⁽²⁾ , Huy Nguyen, ⁽²⁾ Ho Chi Minh City University of Transport, Vietnam
17:23 - 17:35	> Experimental measurement and modeling of the complex Poisson's ratio of bituminous mixtures - <u>Quang Tuan Nguyen</u> (*), Thi Thanh Nhan Hoang, (*)Research and Application Center for Technology in Civil Engineering, University of Transport and Communications, Vietnam
17:35 - 17:47	> Impact of porosity of coarse aggregates on the structuration of paste-aggregate interface: Elementary model study - <u>Duc Long Tranf</u> ⁽²⁾ , Franck Cassagnabere, Michel Mouret, ⁽²⁾ LMDC, University of Toulouse Paul Sabatier, France; University of Technology and Education, the University of Da Nang, Vietnam

17:47 - 17:59	> Comparison between Critical Path Method (CPM) and Last Planners System (LPS) for Planning and Scheduling METRO Rail Project of Ahmedabad - <u>Viraj Parekh</u> ⁽²⁾ , Karan Asnani, Yashraj Bhatt, Rahul Mulchandani, ⁽²⁾ Institute of Technology, Nirma University, India
17:59 - 18:11	> Application of Six Sigma on METRO Rail Construction Project - <u>Viraj Parekh</u> (¹⁾ , Kushal Solanki, Nishit Prajapati, ⁽¹⁾ Institute of Technology, Nirma University, Ahmedabad, India
18:11 - 18:23	> Assessment on the performance of EPB-TBM in the construction of pilot metro line in Ho Chi Minh city (Vietnam) - <i>Thu-Hang Tran, Manh-Tuan Hoang</i> (*) (*) Shimizu – Maeda Joint Operation, Vietnam
18:23 - 18:35	> Development of optimised underground structures in urban areas - <u>Rolf Katzenbach</u> (*), (*) Technische Universität Darmstadt, Germany
16:35 - 18:35	Parallel Session 2C Venue: 502 – 5 th floor Topic: Geotechnics for Environment and Energy Chairs: Emilio Nicolini & Quoc Bao Bui
16:35 - 16:47	> Experimental Correlations for the Swelling Pressure of Expansive Clays in the City of Tebessa, Algeria - <u>Adel Djellalf</u> , Behrooz Saghafi, Mohamed Salah Laouar, ^(*) Mining institute, Larbi Tebessi University, Algeria
16:47 - 16:59	> Modelling the hydromechanical behaviour of expansive assembly of clay granules upon hydration using discrete element method - <u>Benjamin Darde</u> (*), Anh Minh Tang, Jean-Noël Roux, Jean-Michel Pereira, Patrick Dangla, Jean Talandier, Minh Ngoc Vu, (*) French National Radioactive Waste Management Agency, Université Paris-Est, Laboratoire Navier, UMR 8205 (Ecole des Ponts ParisTech - Ifsttar - CNRS), France
16:59 - 17:11	> A numerical homogenized law using discrete element method for continuum modelling of boundary value problems - <u>Trung Kien Nguyen</u> (*), Jacques Desrues, Gaël Combe, Duc Hanh Nguyen, (*)Laboratoire sols, solides, structures - risques, Grenoble, France; National University of Civil Engineering, Vietnam
17:11 - 17:23	> Non-microbial carbonate precipitation as an improvement technique of sand <i>Sung-Sik Park</i> , <u>Trung-Tri Le⁽²⁾</u> , <i>Seong-Heon Kim</i> , <u>Zhenzhen Nong</u> , ⁽³⁾ Kyungpook National University, South Korea
17:23 - 17:35	> Solving the stability problem of vertical slope according to the effective stress field - <u>Thang Do</u> (*), (*) Thuyloi University, Vietnam
17:35 - 17:47	> Granular flows through a model-scale forest: Influence of tree density and implications for landslide mitigation - <u>Hang Luong</u> (*), James Baker, Itai Einav, (*)Hanoi Architectural University, Vietnam
17:47 - 17:59	> Finite Element Simulation of water content-influenced progressive failure of sensitive clays - Nhat-Phi Doan(*), Seung-Wook Woo, Yao-Long Hou, Sung-Sik Park, (*) School of Architectural, Civil, Environmental, and Energy Engineering, Kyungpook National University, South Korea
17:59 - 18:11	> Application of Box-Behnken Design in Optimization of Fracture Treatment Design for Lower Oligocene Reservoir, Offshore Viet Nam - <u>Huu Truong Nguyerf</u> ⁽⁷⁾ , (7) Petrovietnam University, Vietnam

18:11 - 18:23	> Study on Cement-Treated Soil with RoadCem Additive in Construction of Rural Traffic Road: A Case Study in Viet Nam - <i>Thao Vu Ba, Dung Nguyen Quoc, <u>Huong Ngo Thi Thanh</u>^(*), Lanh Ho Si, ^(*)University of Transport Technology, Vietnam</i>
18:23 - 18:35	> In-plane seismic behaviour of rammed earth walls: a numerical investigation with time history analysis - <u>Quoc-Bao Buf</u> , Tan-Trung Bui, ^(*) Ton Duc Thang University, Vietnam
16:35 - 18:35	Parallel Session 2D Venue: 503 – 5 th floor Topic: Urban Planning, Transport and Environment Chairs: Manfred Boltze & Thi My Thanh Truong
16:35 - 16:47	> Bus signal priority by active signal program (ASP) – A case study in Ho Chi Minh City - <u>Thi</u> <u>Thanh Huong Nguyen</u> (") University of Transport and Communications Campus in Ho Chi Minh City, Vietnam
16:47 - 16:59	> Perspectives of the use of GPS in travel survey: Research on identification of missing trips in a GPS pilot survey in Hanoi - <u>Thanh Tu Nguyerf</u> ^(*) , University of Transport and Communications, Vietnam
16:59 - 17:11	> Reasons for cyclists denying new-built bicycle lanes - <u>Duc-Nghiem Nguyerf</u> ⁽⁷⁾ , ⁽⁷⁾ National University of Civil Enginee, Vietnam; Saitama Univers. Japan
17:11 - 17:23	> Review of Unmanned Aerial Vehicles (UAVs) Operation and Data Collection for Driving Behavior Analysis - <u>Huong Q. Pham</u> ⁽²⁾ , M. Camey, K.D. Pham, K.V. Pham, Laurence Rilett, ⁽⁷⁾ University of Nebraska at Lincoln - Prem S. Paul Center, USA
17:23 - 17:35	> A Study on Motorcycles Overturning due to Strong Wind and its Warning System - <u>Duy</u> <u>Hung Vo</u> ⁽⁷⁾ , Anh Vu Do, ⁽⁷⁾ The University of DaNang – University of Science and Technology, Vietnam
17:35 - 17:47	> Analysis of Tourist Travel Behavior and Recommendation for Active Transport Encouragement Strategies, the Case of Hue City - <i>Thi My Thanh Truong</i> (*), Van Dong Dao, Hai Bang Ly, (*)University of Transport Technology, Vietnam
17:47 - 17:59	> Travel behavior change patterns under adverse weather conditions - A case study from Ho Chi Minh City, Vietnam - <i>Anh Tuan Vu, Thi Thanh Huong Nguyen</i> (*), (*) University of Transport and Communications Campus in Ho Chi Minh City, Vietnam
17:59 - 18:11	> Health impacts of traffic-related air pollution: Cause-effect relationships and mitigating measures - <i>Thi Huong Le</i> ⁽²⁾ , ⁽²⁾ <i>Vietnamese-German Transport Research Center, Vietnamese-German University, Transport Planning and Traffic Engineering, Technische Universität Darmstadt, Germany</i>
18:11 - 18:23	> Sustainable and Health-Oriented Transport Planning and Urban Planning - <u>Karin</u> <u>Menges</u> ^(*) , Manfred Boltze, ^(*) Technische Universität Darmstadt, Germany
18:23 - 18:35	> Smart monitoring for urban biodiversity preservation - <u>Thi Hai Yen Pham</u> ^(*) , Isam Shahrour, Ammar Aljer, Alain Lepretre, Céline Pernin, Sana Ounaies, ^(*) Université de Lille, France
19:00 - 22:00	Gala Dinner Venue: Athen 1, 29 th floor

Conference Schedule Details

(Friday, November 1, 2019)

TIME	EVENT	
07:00 onwards	CIGOS Registration	
07:30 - 09:30	Parallel Session 3A Venue: 505 – 5 th floor Topic: Advanced Modeling and Characterization of Structures Chairs: Jan Bujnak & Huu Tai Thai	
07:30 - 07:42	> The Behaviour of Cold-formed Channel Sections with Elongated Web Holes in Shear - <u>Duy Khanh Pham</u> ^(*) , Cao Hung Pham, Song Hong Pham, Gregory Hancock, ^(*) School of Civil Engineering, The University of Sydney, Australia	
07:42 - 07:54	> Numerical Simulation of Cold-Rolled Aluminium Alloy 5052 Columns Subjected to Distortional Buckling – <u>Le Anh Thi Huynh</u> ^(*) , Cao Hung Pham, Kim J.R. Rasmussen, ^(*) The University of Sydney, Australia	
07:54 - 08:06	> Blind source separation technique for operational modal analysis in presence of harmonic excitation - <u>Van-Dong Do</u> ^(*) , Thien-Phu Le, Alexis Beakou, ^(*) Université Clermont Auvergne, CNRS, SIGMA Clermont, Institut Pascal, France	
08:06 - 08:18	> FE modelling of RC frames with Link Column Frame System under in-plane loading - <u>Joel Shelton Joseph</u> (*), Hemalatha Gladston, Venkatesh Vellapandi, (*)RGM College of Engineering and Technology, India	
08:18 - 08:30	> Numerical analysis of double layered asphalt pavement behavior taking into account interface bonding conditions - Minh Tu Le ^(*) , Quang-Huy Nguyen, Mai-Lan Nguyen, (*)Institut National des Sciences Appliquées - Rennes (France), University of Transport Technology (Vietnam)	
08:30 - 08:42	> Mechanical behaviour of four-leg base configuration on cold-formed steel lattice column - <u>Mohd Syahrul Hisyam Mohd Sanf</u> (*), Fadhluhartini Muftah, ^(*) Universiti Teknologi Mara Cawangan Pahang, Malaysia	
08:42 - 08:54	> Elastic Buckling Solution for Perforated Thin-walled Channel Sections in Shear with an Aspect Ratio of 2.0 - <u>Cao Hung Pham</u> ^(*) , Duy Khanh Pham , Gregory Hancock, School of Civil Engineering, ^(*) The University of Sydney, Australia	
08:54 - 09:06	> Finite Element Simulation of Member Buckling of Cold-rolled Aluminium Alloy 5052 Channel Columns - <u>Ngoc Hieu Pham</u> ^(*) , Cao Hung Pham, Kim J.R. Rasmussen, ^(*) School of Civil Engineering, The University of Sydney, Australia	
09:06 - 09:18	> Lateral Buckling Tests of Cold-rolled Aluminium Alloy 5052 Zee Beams - <u>Ngoc Hieu</u> <u>Pham^(*)</u> , Cao Hung Pham, Kim J.R. Rasmussen, ^(*) School of Civil Engineering, The University of Sydney, Australia	
09:18 - 09:30	> Advanced Analysis Software for Steel Frames - <u>Phu-Cuong Nguyen</u> (*), Nghia Nguyen, Minh-Hoang Le, ^(*) Ho Chi Minh City Open University, Vietnam	
07:30 - 09:30	Parallel Session 3B Venue: 508 – 5 th floor Topic: Sustainable Construction Materials and Technologies Chairs: Alexis Beakou & Hai Bang Ly	
07:30 - 07:42	> A non-paraffinic PCM modified textile reinforced concrete sandwich panel - <u>Zakaria llyes</u> <u>Djamaf</u> (*), Amir Si Larbi, Ferdinando Salvatore, (*)Ecole Nationale d'Ingénieurs de Saint Etienne, France	

07:42 - 07:54	> A Study on Behavior of Reinforcement Concrete Beam using the Recycled Concrete - <u>Anh-Thang Le</u> (*), T. Hung Nguyen, C.V. Duc Phan, (*)Hochiminh City University of Technology and Education, Vietnam
07:54 - 08:06	> Experimental study of thermomechanical behavior of the carbon textile reinforced refractory concrete subjected to the constant load and temperature heating – <u>Manh Tien Tran</u> ^(*) , Xuan Hong Vu, Emmanuel Ferrier, ^(*) University Lyon 1, Laboratory of Composite Materials for Construction (LMC2), France
08:06 - 08:18	> Experimental investigation of loading rate effects on the shear capacity of reinforced concrete deep beams - <u>Vanny Lá</u> ⁽⁷⁾ , Kenichiro Nakarai , Halwan Alfisa Saifullah, Asuka Mizobe, ⁽⁷⁾ Graduate School of Engineering, Hiroshima University, Japan
08:18 - 08:30	> Air permeability of cover concrete quality of precast box culverts affected by casting direction - <u>Huu Nguyen May</u> (*), Kenichiro Nakarai , Saeko Kajitar, (*)University Of Transport Technology, Vietnam
08:30 - 08:42	> Air permeability coefficients of expansive concrete confined by rebars - <u>Anh Le</u> (*), Kenichiro Nakarai, May Nguyen Huu, Yasutaka Kubori, Toshikazu Matsuyama, Hajime Kawakane , Shintaro Tani, ^(*) University Of Transport Technology, Vietnam
08:42-08:54	> Assessment of Design Guidelines for Fiber-Reinforced Polymer Shear Contribution of Prestressed Concrete Beams Strengthened by Fiber-Reinforced Polymer Sheets - <u>Le Dien Vo</u> (*),(*)Ho Chi Minh city University of Technology, Vietnam
08:54 - 09:06	> The repairing effects of lithium silicate based material to the surface of hardened concrete - Xuan Tung Nguyen ^(*) (*)University of Transport and Communications, Vietnam
09:06 - 09:18	> Real-time detection of asymmetric surface deformation and field stress in concrete-filled circular steel tubes via multi-vision method - <u>Yunchao Tang</u> ^(*) , Kuangyu Huang, Lijuan Li, Xiangjun Zou, Wenxian Feng, ^(*) College of Urban and Rural Construction, Zhongkai University of Agriculture and Engineering, China
07:30 - 09:30	Parallel Session 3C Topic: Urban Planning, Transport and Environment Chairs: Laurence Rilett & Thanh Tu Nguyen
07:30 - 07:42	> A Framework for Last Planner System implementation in Egypt - <u>Eyad Aboseif</u> (*), Rana Khallaf, ^(*) Cairo University, Egypt
07:42 - 07:54	> New cooperative approach between universities and enterprises, towards a reality urban planning. Lesson learnt from Nhon Ly, Quy Nhon city - <u>Huyen Nguyen</u> (**), Trang Dang, (**)Institute of International Training and Cooperation-Hanoi Architectural University, Vietnam
07:54 - 08:06	> Evaluation of the effects of traffic management at school areas - <u>Minh Ngoc Arf</u> '), Viet Hung Khuat, (')University of Transport and Communications, Vietnam
08:06 - 08:18	> Solutions to use capital efficiently for maintenance in the road traffic infrastructure development in vietnam – <u>Dung Nguyen Thi Tuyet</u> (*), Sang Nguyen Quynh, (*)Hanoi Architectural University, Vietnam
08:18 - 08:30	> Policy Implications from Traffic Accident Analysis: A Study Case from Vietnam - <u>Minh</u> <u>Ngoc An</u> (*), Thi My Thanh Truong, ^(*) University of Transport and Communications, Vietnam

08:30 - 08:42	> Integrated transport planning for sustainable urban development — Singapore' approach and lessons for Vietnam – <u>Toan Trinh Dinh</u> (*),(*)Thuy Loi University, Vietnam
08:42 - 08:54	> Transitioning Different Stages of Transport Planning in Urban Areas: Experiences of Singapore and Vietnam - Maria Cecilia Rojas Lopez, <u>Toan Trinh Dinh</u> (*), Yiik Diew Wong, (*)Thuy Loi University, Hanoi, Vietnam
08:54 - 09:06	> A landscape structure proposal for a sustainable development – Quy Nhon City - <i>Rute Sousa Matos, <u>Huyen Nguyen</u>(*), Tho Phan, Thuy Phan, (*)Quy Nhon University, Vietnam</i>
09:06 - 09:18	> Sustainable Measures to Achieve Better River-Crossing Access in the Rural Areas of Developing Countries - <u>Yoshinori Fukubayashi</u> f*), Makoto Kimura, (*)University of Miyazaki, Japan
09:18 - 09:00	> Development of Disaster Resilient and Sustainable University Framework: Case of Bandung Institute of Technology (ITB) - Krishna Suryanto Pribadi, Rahma Hanifa, Eliya Hanafi, Giovanni Pradipta ^(*) , (*)Research Center for Disaster Mitigation, Bandung Institute of Technology, Indonesia
07:30 - 09:30	Parallel Session 3D Venue: 502 – 5 th floor Topic: Building Information Modeling Chairs: Adam Matthews & Ngoc Binh Ta
07:30 - 07:42	> The contextual influence on Building Information Modelling implementation: A cross-case analysis of infrastructure projects in Vietnam and Norway - <u>Nam Buf</u> (*),(*)Oslo Metropolitan University
07:42 - 07:54	> BIM-based innovative bridge maintenance system using augmented reality technology - <u>Ngoc Son Dang</u> ^(*) , Chang-Su Shim, ^(*) Chung-Ang University, South Korea
07:54 - 08:06	> BIM Adoption in Construction Projects Funded with State-managed Capital in Vietnam: Legal Issues and Proposed Solutions - <u>Thuy-Ninh Dad</u> The-Quan Nguyen, Po-Han Chen, (*)National Taiwan University, Taiwan; National University of Civil Engineering, Hanoi, Vietnam
08:06 - 08:18	> Application of BIM tools in technician training, a case of Ho Chi Minh City Construction College, Vietnam - <i>Tung Lam Nguyen</i> , <i>Thi Xuan Nguyen</i> (*),(*)Ho Chi Minh City Construction College, Vietnam
08:18 - 08:30	> Building information modeling based optimization of steel single plate shear connections using differential evolution algorithm - <u>Tran-Hieu Nguyen</u> ^(*) , Anh-Tuan Vu, ^(*) National University of Civil Engineering, Vietnam
08:30 - 08:42	> Perspectives on BIM Profession of BIM Specialists and Non-BIM Specialists: Case Study in Vietnam – Ngoc Quyet Le, Michael Er, Shankar Sankaran, Ngoc Binh Ta ^(*) , (*)Institute of Construction Economics, Vietnam
08:42 - 08:54	> BIM application for the design consultant on the irrigation and hydropower projects in Vietnam – <i>Van Toan Tran</i> ^(*) , <i>Huu Hue Nguyen</i> , ^(*) Thuyloi university, Vietnam
08:54 - 09:06	> Bridge assessment for PSC Girder Bridge using Digital Twin Model - <u>Ngoc Son Dang</u> ^(*) , Chang-Su Shim, ChungAng University, ^(*) South Korea
09:06 - 09:18	> Selection of Construction Design: A Knowledge-Based System Method - <i>Phan Nghiem Vu</i> , <u>Le Tuan Vu</u> ^(*) , (*) Huế University - Quang Tri Branch, Vietnam

09:30 - 10:00	Coffee Break Venue: 5 th floor
10:00 - 12:00	Parallel Session 4A Venue: 505 – 5 th floor Topic: Advanced modeling and characterization of structures Chairs: Christophe Lanos & Thien Phu Le
10:00 - 10:12	> Experimental characterization of multi-full-culm bamboo to steel connection - <u>Nischal Prasad Nhuchhe Pradhan</u> ^(*) , Themelina S. Paraskeva, Elias G. Dimitrakopoulos, ^(*) The Hong Kong University of Science and Technology, Hong Kong
10:12 - 10:24	> Analysis of Two-Directional Seismic Deterioration of Steel Box Columns - <u>Tuan Nam</u> <u>Tran</u> ^(*) (*)Ho Chi Minh City University of Technology (HUTECH), Ho Chi Minh, Vietnam
10:24 - 10:36	> Fatigue analysis of jack-up leg structures in transit condition - <u>Chinh Vu Dan</u> (*), Quang Cuong Dinh, (*)Institute of Construction for Offshore Engineering, Vietnam
10:36 - 10:48	> Use of Kriging metamodels for seismic fragility analysis of structures - Cong Thuat Dang, Thanh Tran, <u>Duy-My Nguyen</u> ⁽¹⁾ , My Pham, Thien-Phu Le, ^(*) University of Science and Technology - The University of Danang, Vietnam
10:48 - 11:00	> Stress-dependent permeability of the fractured rock masses: numerical simulation based on the Embedded Fracture Continuum approach - <u>Hong Lam Dang</u> ^(*) , Duc Phi Do, Dashnor Hoxha, ^(*) University of Transport and Communications, Vietnam
11:00 - 11:12	> Finite element modeling of the TECCO protection system for rock-fall under impact loading - <u>Van Dang Tran</u> (*), Dong Tran, Dannis Gross, (*) Thuyloi University, Vietnam
11:12 - 11:24	> Parametric numerical study on a novel energy harvester using iron-gallium alloy and strain response - <u>Tuan Minh Ha</u> ^(*) , Saiji Fukada, Toshiyuki Ueno, ^(*) Ho Chi Minh City University of Technology (HUTECH), Vietnam
11:24 - 11:36	> A further study on stayed-cable galloping in dry weather condition - <u>Duy Hung Vo</u> (*), Duy- Thao Nguyen, (*)The University of DaNang — University of Science and Technology, Vietnam
11:36 - 11:48	> A Study on Combination of Two Friction Dampers to Control Stayed-cable Vibration under considering its Bending Stiffness - <u>Duy-Thao Nguyen</u> (*), Duy Hung Vo, (*)The University of DaNang – University of Science and Technology, Vietnam
11:48 - 12:00	> Advanced Design Software for Steel Cable-Stayed Bridges Using Nonlinear Inelastic Analysis - <u>Viet-Hung Truong</u> ^(*) , Seung-Eock Kim, ^(*) Thuyloi university, Vietnam
10:00 - 12:00	Parallel Session 4B Venue: 508 – 5 th floor Topic: Sustainable Construction Materials and Technologies Chairs: José Turmo & Tien Long Nguyen
10:00 - 10:12	> Preparation of low cement ultra-high performance concrete - <u>Norzaireen Azmee</u> ^(*) , Nasir Shafiq, ^(*) Universiti Teknologi PETRONAS
10:12 - 10:24	> The effect of mineral admixture on the properties of the binder towards using in making pervious concrete - <u>Van Dong Nguyen</u> (*),(*)National University of Civil Engineering, Vietnam
10:24 - 10:36	> Experimental study on the valorisation of poplar by-products in cement-based materials - Chafika Djelal, <u>Jonathan Page</u> (*), Yannick Vanhove, Hassina Kada, ^(*) Laboratoire de Génie Civil et Géo-Environnement, France

10:36 - 10:48	> Strength and engineering properties of cementless paste produced by GGBFS and MgO - Chao-Lung Hwang, <u>Duy-Hai Vo</u> (*), Thi Khanh-Dung Tran , Damtie Yehualaw Mitiku, (*)University of Technology and Education, The University of Danang, Vietnam
10:48 - 11:00	> Effects of amounts and moisture states of clay-brick waste as coarse aggregate on slump and compressive strength of concrete - Phuong Trinh Bui, Xuan Nam Nguyen, My Ngoc Tang ⁽⁷⁾ , Yuko Ogawa, Kenji Kawai, ⁽⁷⁾ Ho Chi Minh City University of Technology, VNU-HCM, Vietnam
11:00 - 11:12	> Geochemical modelling for prediction of chloride diffusion in concrete exposed to seawater - Hoang Long Nguyen, <u>Van Quan Tran</u> (*), Long Khanh Nguyen,Tuan Anh Pham , Quoc Trinh Ngo, Van Loi Giap, ^(*) University of Transport Technology, Vietnam
11:12 - 11:24	> Experimental Investigation of a Self-powered Magnetorheological Damper for Seismic Mitigation - <u>Daniel Cruze</u> (*), Hemalatha Gladston, Sarala Loganathan, Tensing Dharmaraj, S Sundar Manoharan, Xian-Xu Bai, (*)Karunya Institute of Technology and Sciences, India
10:00 - 12:00	Parallel Session 4C Venue: 502 – 5 th floor Topic: Geotechnics for Environment and Energy Chairs: Suzanne Lacasse & Hoang Kien Pham
10:00 - 10:12	> Reusability of muds dredging at urban lakes in Hanoi from geotechnical engineering characteristics - <u>Thuc Pham Trf</u> , Dong Phan Huy, (*)Military Academy of Logistics, Vietnam
10:12 - 10:24	> Investigating the properties of geopolymer modified sludge designed by Taguchi method - <u>Minh Chien Vu</u> (*), Tomoaki Satomi, Hiroshi Takahashi, (*)Tohoku university, Japan
10:24 - 10:36	> Rheological and Microfabric Characteristics of Gold Tailings Stabilized With Fly Ash - <u>Joon Kyu Lee</u> ^(*) , (*) University of Seoul, South Korea
10:36 - 10:48	> Numerical model of hydro–mechanical coupling DEM–PFV and application for simulation of settlement of soil saturated in embankments due to static loading - <u>Anh Tuan Tong</u> ^(*) , Nguyen Hoang Phuong Luong, ^(*) University of Transport and Communications, Vietnam
10:48 - 11:00	> Evaluation of the At-Rest Lateral Earth Pressure Coefficient of Fibre Reinforced Load Transfer Platform and Columns Supported Embankments - <u>Cong Chi Dang</u> (*), Liet Chi Dang, (*)Ho Chi Minh City University of Technology, Vietnam
11:00 - 11:12	> A Case Study on Slope Stabilization by Bio-engineering in Taiwan – National Chi-Nan University - <u>Tai-Yi Liu</u> (*), Nelson N.S. Chou, Po-Han Chen, (*)New Asia Construction and Development Corporation, Taiwan
11:12 - 11:24	> Analyses on drainage capacity and sliding resistance of large diameter vertical wells for deep-seated landslide stabilization - <u>Ba Thao Vu</u> (²), Van Minh Pham, Quoc Dung Nguyen, Huy Vuong Nguyen, Hydraulic Construction Institute, (²)Vietnam Academy for Water Resources, Vietnam; College of Civil Engineering, Tongji University, China
11:24 - 11:36	> Influence of Compaction Factor on the mechanical behavior of the soils used for the earth dams in the North Central region, Vietnam - <u>Van Toan Tran</u> (*), Van Hien Tran, (*)Thuyloi University, Vietnam
11:36 - 11:48	> Durability Evaluation of a Geothermal Grout - Pascal Monnot, Philippe Blanc, Amandine Rojo, Laurent Molez, <u>Christophe Land</u> Laboratoire de Génie Civil et Génie Mécanique (LGCGM), France

11:48 - 12:00	> A model for soil-structure interaction - Application to small modular reactors - <i>Liang Cui, Mamadou Fall, Nebojsa Orbovic, <u>Son Nguyen</u>, ^(*)Canadian Nuclear Safety Commission, Canada</i>	
10:00 - 12:00	Parallel Session 4D Venue: 503 – 5 th floor Topic: Data Mining & Machine Learning Chairs: Sybil Derrible & Thai Binh Pham	
10:00 - 10:12	> Machine learning based tool for cleaning up CAD to GIS converted data - Mohamed Badhrudeen, Nalin Naranjo, Ali Movahedi, <u>Sybil Derrible</u> ⁽²⁾ ,(*)Complex and Sustainable Urban Networks (CSUN) Lab, Department of Civil and Materials Engineering University of Illinois at Chicago, USA	
10:12 - 10:24	> An Image Mosaicking Method Base on The Curvature of Cost Curve for Tunnel Lining Inspection - <u>Kim Cuong Nguyen</u> (*), Kei Kawamura, Masando Shiozaki, Amir Tarighat, (*)Mien Trung of civil engineering, Vietnam	
10:24 - 10:36	> A Deep Learning-Based Procedure for Safety Evaluation of Steel Frames Using Advanced Analysis - Manh-Hung Ha, <u>Quang-Viet Vu</u> (*), Viet-Hung Truong, (*)Sejong University	
10:36 - 10:48	> Prediction of buckling coefficient of stiffened plate girders using deep learning algorithm - <u>George Papazafeiropoulos</u> ^(*) , Quang-Viet Vu, Viet-Hung Truong, Minh-Chinh Luong, Van- Trung Pham, ^(*) School of Civil Engineering, National Technical University of Athens, Greece	
10:48 - 11:00	> Development of Artificial Neural Networks for Prediction of Compression Coefficient of Soft Soil - <u>Binh Thai Pham</u> ^(*) , Manh Duc Nguyen, Hai Bang Ly, Tuan Anh Pham, Vu Hoang, Hiep Van Le, Tien-Thinh Le, Hung Quang Nguyen, Gia Linh Bui, ^(*) University of Transport Technology, Vietnam	
11:00 - 11:12	> A Possibility of Al Application on Mode-choice Prediction of Transport Users in Hanoi - <u>Thi My Thanh Truong</u> Hai Bang Ly, Thai Binh Pham, Hai Vietnam	
11:12 - 11:24	> Development of 48-hour Precipitation Forecasting Model using Nonlinear Autoregressive Neural Network – <i>Tien-Thinh Le, Binh Thai Pham</i> ^(*) , <i>Hai Bang Ly, Ataollah Shirzadi, Lu Minh Le, (*)University of Transport Technology, Vietnam</i>	
11:24 - 11:36	> Monitoring Pedestrian Flow on Campus with Multiple Cameras using Computer Vision and Deep Learning Techniques - <u>Kok-Yiu Wong</u> ^c , Chin-Pang Cheng, ^(*) Hong Kong University of Science and Technology, Hong Kong	
11:36 - 11:48	> Machine Learning-based Models to Forecast Energy Consumption in Residential Buildings - Jui-Sheng Chou, <u>Dinh-Nhat Truong</u> (*), Duc-Son Tran, (*)National Taiwan University of Science and Technology, Taiwan	
11:48 - 12:00	> A Daily Work Report Based Approach for Schedule Risk Analysis - $\underline{Chau\ Le^{(2)}}$, H. David Jeong, ${}^{(2)}$ Texas A&M University [College Station], USA	
12:00 - 13:30	Lunch Venue: 1st floor	
13:30 - 14:10	Plenary Session 3 Venue: 2 nd floor Chairs: Olivia Mirza & Cao Hung Pham	

13:30 - 14:10	Keynote 5: eHighway - An Infrastructure for Sustainable Road Freight Transport - <u>Manfred Boltze</u> , Technische Universität Darmstadt, Institute for Transport Planning and Traffic Engineering, Germany	
14:10 - 14:50	Keynote 6: Industrialized construction of medium span concrete bridges using movable false work - <u>José Turmo</u> , Technical University of Catalonia BarcelonaTech (UPC), Spain	
14:50 - 15:50	Poster Session & Coffee break	Venue: 5 th floor
15:50 - 16:30	Plenary Session 4 Chairs: Sybil Derrible & Thanh Son Nguyen	Venue: 2 nd floor
15:50 - 16:30	Keynote 7: Ensuring success with 3D printing applications in construction - <u>Mirosław J.</u> <u>Skibniewski,</u> University of Maryland, USA	
16:30 - 17:10	Keynote 8: Applying a national BIM model to Vietnam's National Implementation of BIM: Lessons learned from the UK-Vietnam collaboration for the Industry - <u>Adam Matthews</u> , International for the UK Government's Building Information Modelling, UK	
17:10 - 17:30	Clossing session	Venue: 2 nd floor

Poster sessions

Poster sessions			
TIME			
Day 1 (Oct. 31)	Advanced modeling and characterization of structures		
15:35 – 16:35 5 th floor	 Application of weighted Latin hypercube sampling in stochastic modelling of shear strength of RC beams - Le Nguyen Khuong 		
Sustainable Construction Materials and Technologies and			
Day 2 (Nov. 1)	 Performance of Recycled Coarse Aggregate Concrete with Different Nylon Fiber Content - Lee Seungtae, Chu Youngkyu, Ha Sangwook, Kim Yong, Jeong Jaehong 		
14:50 – 15:50	Study and propose the size of cement concrete slabs for airport road surface in Vietnam conditions - Viet Nguyen Vu		
5 th floor	 Investigation of the use of reclaimed asphalt pavement as aggregates in roller compacted concrete for road base pavement in Vietnam - Nguyen Giang, Nguyen Lan, Bui Cay, Tran Trung Hieu, Dao Dong, Nguyen Dung 		

 water - Ung Thi Thuy Ha, Pham Tuan Hung, Leu Tho Bach
 Horizontal response of base-isolated buildings supported to high damping rubber bearings - Nguyen Dung, Le Phong, Tran Minh

4. Research on fabricating flowforms from ultra-high performance

concrete with local admixtures for use in processing contaminated

- Design of a Drinking Water Disinfection Systems using Ultraviolet Irradiation and Electrolysis Cell - Tuan Phan Anh. Tan Nouven Minh
- 7. Application of Fluidized Power Coating for Propellers Tuan Phan Anh, Huong Pham Thi Thanh

Geotechnics for Environment and Energy

- Stochastic site response analysis in consideration with various probability distributions of geotechnical properties - Tran Tuan, Nguyen Phu-Cuong, Han Seung-Ryong, Kim Dookie
- Rheological and Microfabric Characteristics of Gold Tailings Stabilized With Fly Ash - Lee Joon Kyu
- Numerical study of pile reinforced slope-A case at Khe Cham coal preparation construction site project (Vietnam) - Dung Nguyen, Hung Nguyen, Do Tan
- Formation of Rust Scales on Mild Steel Pile in Brackish Water of Phu My Port – Vietnam - Vuong Vinh-Dat, Vu Anh Quang, Katayama Eiji, Usami Shunsuke, Le Thang Van, Thao Nguyen Danh
- Study the influence of adherence edge to steel strip and soil interaction in Mechanically Stabilized Earth Wall with a self-made strip - Linh Chau Truong, Ha Nguyen Thu
- Overview of Geomechanics and its applications to petroleum industry a
 case study for minimum overbalance pressure calculation Nguyen Van
 Hung
- Enhanced oil recovery: A selection technique for the energy and recovery
 of Bach Ho field in Vietnam Nguyen Van Hung, Minh Quy Nguyen, Long
 Hoang, Quoc Trung Le, Le Vu Quan

- 8. Influence of heterogeneous fractured fault damage zones on shear failure onset during fluid injection Nguyen Trung Kien, Rohmer Jeremy, Vu Ba Thao
- 9. Experimental and numerical assessments of seepage effect on embankment behaviours by the time Nguyen Thanh Quang, Chau Truong-Linh, Nguyen The Hung
- 10. Dynamic properties of loose sand using numerical analysis-A case at Hong Thai Tay coal transportation road project (Vietnam) Hung Nguyen, Dung Nguyen, Do Tan
- Nonlinear Behavior Analysis of SFRC Foundation Considering Homogeneous and Inhomogeneous Soil Interactions - Radim Cajka, Nguyen Phu-Cuong, Tran Tuan

Urban Planning, Transport and Environment

- Flood risk assessment in the planning of new urban in Quangnam province, Vietnam - To Thuy Nga, Le Hung, Vu Huy Cong
- 2. Modeling and applying heuristics for optimization of solid waste collection under consideration of vehicle capacity *Dinh Hai Dung*
- Modeling land use change based on remote sensing, GIS and algorithm cellular automata decision support system for urban sustainability planning in Quy Nhon, Binh Dinh province central Vietnam - Phan Van Tho, Ngo Anh Tu, Dang Thuc Trang, Matos Rute Sousa, Nguyen Thi Huyen
- Analysis of Mode Choice Behavior under Adverse Weather Conditions
 Using RA and SP Surveys A case study from Ho Chi Minh City, Vietnam
 Vu Anh Tuan, Nguyen Thi Thanh Huong
- 5. Factors influencing the choice of Bike Sharing System: An investigation of visitors and local people in Vietnam Nguyen Thanh Tu, Le Thu Huyen
- 6. Vehicle usage/ownership control for a Sustainable Transport system in the Motorcycle Dependent Cities *Le Thu Huyen, Nguyen Thanh Tu*

Building Information Modeling

 Application of Building Information Modelling, Extended tracking technique and Augmented Reality in Building Operating Management -Tran Anh Binh

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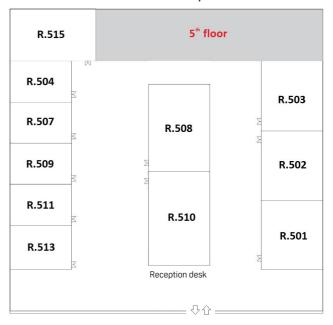
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Conference Venue Information



Hanoi Grand Plaza Hotel 117 Trần Duy Hưng, Trung Hoà, Cầu Giấy, Hà Nội Tel: 024 3555 1000

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