

Day 0: Monday 29 July 2024

16.30-18.30	Welcome Reception School of Engineering Building, Y8 on the campus map
19.00	International Wind Engineering Association Executive Board meeting Edgbaston Park Hotel and Conference Centre, G23 on the campus map . Details of the room will be posted later (Only members of the Executive Board are invited).

Day 1: Tuesday 30 July 2024

08:00-09:00	Registration, Exhibition Viewing and Refreshments
09:00-09:20	Opening Ceremony - Main Hall Hassan Hemida, Mark Sterling, Ian Jefferson and Claudio Borri
09:20-10:20	Keynote Lecture - Main Hall (Chair - Hassan Hemida) Wake Bi-Stability in Vehicle Aerodynamics, Professor Sinisa Krajnovic
10:20-10:50	Refreshments Break, Exhibition and Poster Viewing

Parallel sessions 1

	Room 1 Bridge Aerodynamics <i>(Chair - Jasna Jakobsen)</i>	Room 2 Wind Energy Systems <i>(Chair - Grzegorz Litak)</i>	Room 3 Mini-Symposium - CFD Best Practice <i>(Chair - Bert Blocken & Ted Stathopoulos)</i>	Room 4 Vehicles Aerodynamics <i>(Chair - David Soper)</i>	Room 5 Fluid Structure Interaction <i>(Chair - Thomas Adrianne)</i>	Room 6 Environmental Wind Engineering <i>(Chair - Mahbub Alam)</i>
10:50-11:05	O1.1 Surrogate models of aerodynamic derivatives based on Bayesian regression and rational functions <i>Øyvind Wiig Petersen, Ole Øiseth</i>	O1.5 Wind tunnel experimental study on wake characteristics of wind turbine located on two-dimensional hill under different turbulent inflow conditions <i>Shuangchen Tang, Bowen Yan, Guowei Qian, Meng Yu, Xuhong Zhou, Qingshan Yang</i>	O1.9 Designing a guiding online tool for best practices in urban CFD simulations <i>Maren Hengelmolen, Ivan Pađen, Hugo Ledoux, Clara García-Sánchez</i>	O1.13 The aerodynamic flow interaction of platooning vehicles <i>David Soper, Samuel Marshall, Simon Wiggins</i>	O1.17 Flow over surface-mounted square blocks of very low aspect ratio fully immersed in a boundary layer <i>B. Petreny, B.L. da Silva, D.J. Bergstrom, D. Sumner</i>	O1.21 Slenderness Effects on the Flow Over an Array of Tall Buildings with Random Heights <i>Donnchadh MacGarry, Zheng-Tong Xie, Christina Vanderwel</i>
11:05-11:20	O1.2 Investigation on aerodynamic countermeasures for VIV mitigation of a Π-shaped deck <i>Lin Huang, Haili Liao, Qi Wang</i>	O1.6 Vibration mitigation of offshore wind turbines using pre-stressed nonlinear energy sinks under multiple load combinations <i>Jinyu Li, Haoshuai Qiao, Peng Huang</i>	O1.10 Recommended CFD best practice guidelines for components and cladding wind loads <i>Tsinuel N. Geleta, Girma Bitsuamlak</i>	O1.14 On the Suitability of the Ahmed Body as a Wake Source for Platooning Investigations <i>Brian R. McAuliffe and Hali Barber</i>	O1.18 Strong suction events during reformation of leading edge vortices on building side walls <i>Peter Richards, Roger Hoxey</i>	O1.22 Vortex Shedding Frequency of Tall Building Arrays <i>Saad Inam, Zheng-Tong Xie, Davide Lasagna, Marco Placidi, Alan Robins, Cung H. Nguyen</i>
11:20-11:35	O1.3 Vortex-induced vibration performances of double-layer girder with slenderness of 1:12 <i>Wenhan Yang, Xiangcheng Kong, Wenli Chen</i>	O1.7 Upstream effects on flutter responses in flexible photovoltaic bracket systems <i>Zhuo-yi Zou, Feng Wang, Jia-wu Li, Jia-ying Wang</i>	O1.11 Simplification of geometries for CFD in the built environment: a key strategy to simulate complex wind flows <i>Alessio Ricci, Massimiliano Burlando, Bert Blocken</i>	O1.15 Boundary layer development and flow features of sets of rectangular blocks in tandem <i>Ariq Quazi, Mark C. Thompson, David Burton</i>	O1.19 Fluctuating surface pressure measurements on the 6 m cube <i>Roger Hoxey, Peter Richards, Adam Robertson</i>	O1.23 Evaluation of the cool roof scenario's impact on temperature and wind characteristics <i>Berk Adali, Yigit Can Altan</i>
11:35-11:50	O1.4 Reliability based design optimization of twin box girder section of suspension bridges under flutter constraint <i>Ibuki Kusano, José Ángel Jurado, Aitor Baldomir, Arturo Fontán, Santiago Hernández</i>	O1.8 Ambient small-scale wind energy harvesting using a rectangular bluff body <i>P. Poozesh, F. Nieto, A.J. Alvarez</i>	O1.12 Peak Pressure Evaluation on High-Rise Buildings: Insights from Experimental and LES Analyses <i>Kristina Kostadinović Vranešević, Anina Šarkić Glumac</i>	O1.16 Effects of External Shape Parameters on the Drag Reduction of a 2-vehicle Platoon <i>Dehua Wang, Qing Jia, Chao Xia, Zhigang Yang</i>	O1.20 Mapping of flow separation and attachment on a 3:2 rectangular cylinder <i>Cung H. Nguyen, John S. Owen</i>	

11:50-12:05	Transition Break					
Parallel sessions 2						
	Room 1 Bridge Aerodynamics <i>(Chair - Santiago Hernández Ibáñez)</i>	Room 2 Fluid Structure Interaction <i>(Chair - Anastasia Athanasiou)</i>	Room 3 Mini-Symposium - CFD Best Practice <i>(Chair - Bert Blocken & Ted Stathopoulos)</i>	Room 4 Environmental Wind Engineering <i>(Chair - Amal Elawady)</i>	Room 5 Mini-Symposium - Tornadoes <i>(Chair - Guirong Yan-Grace)</i>	Room 6 Vehicles Aerodynamics <i>(Chair - Daniel Butcher)</i>
12:05-12:20	O2.1 Closed-form solutions to multi-mode coupled bridge flutter <i>Jiade Zhu, Shaopeng Yang, Qi Wang, Haili Liao, Qiang Zhou</i>	O2.5 Fluid-structure interaction analysis of parked horizontal axis wind turbines under typhoon via a coupled CFD-FEM approach <i>Huayi Peng, Qibang Lin, Hongjun Liu</i>	O2.9 Droplet phase, droplet-air interaction, and droplet-releasing techniques for CFD simulation of droplet dispersion <i>Xuelin Zhang, Xiaodan Fan, A. U. Weerasuriya</i>	O2.13 Balancing Protection and Risk: Understanding the Dual Impact of Trees on Low-Rise Buildings During Extreme Wind Events <i>Haitham A. Ibrahim, Fahim Ahmed, Amal Elawady, Jean-Paul Pinelli</i>	O2.17 Effect of different tornado chambers on vortex structure and vortex parameters <i>R. Panneer Selvam, Sagar Gharti</i>	O2.21 Numerical Study on a Railway Vehicle Model Moving on an Embankment Subject to Crosswinds <i>Yuhei Noguchi, Minoru Suzuki</i>
12:20-12:35	O2.2 Analysis of galloping in vertical and lateral bending in full bridge aeroelastic model testing <i>Yizhe Lan, Xiaonong Hu, Yaojun Ge</i>	O2.6 Engineering recommendations for the dynamic mode decomposition (DMD) in wind engineering <i>Cruz Y. Li, Yunfei Fu, Xisheng Lin, Daniel Ziyue Peng, Yixiang Wang, Zengshun Chen, Tim K.T. Tse, Xuelin Zhang</i>	O2.10 Some suggestions concerning terrain roughness modelling in CFD simulations <i>Bert Blocken</i>	O2.14 Analysis of the mean pressure field on a sphere under an uniform incoming flow at high Reynolds numbers <i>Carolina Hernández-Badillo, Raul Manzanares-Bercial, Omar Gómez-Ortega, Mikel Ogueta-Gutiérrez, José Luis Ruiz-Moral</i>	O2.18 Surface pressures exerted by tornado-like vortices on a realistic community of low-rise buildings <i>Ruijia Yang, Djordje Romanic, Horia Hangan</i>	O2.22 Transient pressure, inferred forces and moments on a freight train in real-world operation <i>James R. Bell, Arne Henning</i>
12:35-12:50	O2.3 Vortex-induced vibration control of long span bridges with nonlinear shape memory alloy damper <i>Sizhe Wu, Genshen Fang, Yaojun Ge</i>	O2.7 The use of spectral subtraction method to reduce ambient sensors noise in wind tunnel tests <i>Tuan-Kiet La and Soon-Duck Kwon</i>	O2.11 AIJ activity on LES application to pedestrian wind environment: Validation benchmarks and guidelines <i>Tsubasa Okaze, Hideki Kikumoto, Naoki Ikegaya, Keisuke Nakao Keigo Nakajima, Hiroki Ono, Ryuichiro Yoshie, Yoshihide Tominaga</i>	O2.15 Investigating building geometry details in a large-scale LES study with realistic inflow conditions <i>Ivan Pađen, Domingo Muñoz-Esparza, Jeremy A. Sauer, Hugo Ledoux, Clara García-Sánchez</i>	O2.19 Multi-stage typhoon-induced effects of floating offshore wind turbine: enhanced analysis model <i>Hao Wang, Shitang Ke, Tongguang Wang</i>	O2.23 A wind-tunnel study of the effect of sheared wind profiles on the aerodynamic drag of passenger vehicle models <i>F. de Souza, B. McAuliffe, H. Barber, B. Tanguay</i>
12:50-13:05	O2.4 Reliability analysis of a long-span suspension bridge considering buffeting phenomenon <i>J. Quintela, J.Á. Jurado, S. Hernández</i>	O2.8 Wind tunnel test on vibration control of a high-rise building with a negative stiffness with tuned viscous mass damper <i>Weiwei Zhao, Yong Quan</i>	O2.12 LES workflow and benchmark validation for wind loads on ground-mounted solar panel/tracker arrays <i>T.G. Eshete, T.N. Geleta, G.T. Bitsuamlak</i>	O2.16 Experimental Investigation of Influence of Dune Geometry on Sand Migration <i>Sumaja Kolli, Hassan Hemida, Pradeep Kumar Dammala</i>	O2.20 Comparison of wind effects on a low-rise building induced by tornadoes with different flow structures <i>Guirong Yan, Yi Zhao</i>	O2.24 Slipstream Effects of a Bi-Level Passenger Train on Platform Gust Conditions <i>T.I. Saeed, H. Sallandt, M. Burton</i>
13:05-13:15	Conference Group Photograph					
13:15-13:50	Lunch, Exhibition and Poster Viewing					
13:50-14:00	Dantec Dynamics Ltd					
14:00-14:50	Keynote Lecture - Main Hall (Chair - Ted Stathopoulos) Water Tunnel Models of Urban Aerodynamics and Air Pollution, Dr Christina Vanderwel					
14:50-14:55	Conference Announcements					
14:55-15:00	Transition Break					
Parallel sessions 3						
	Room 1 Bridge Aerodynamics <i>(Chair - Miguel Cid Montoya)</i>	Room 2 Mini-Symposium - FSI <i>(Chair - Chandan Bose and Grigoris Dimitriadis)</i>	Room 3 Mini Symposium - BBB <i>(Chair - Sophie Breitkopf)</i>	Room 4 Cables Aerodynamics <i>(Chair - Xugang Hua)</i>	Room 5 Computational Fluid Dynamics <i>(Chair - Yuan-Lung Lo)</i>	Room 6 Environmental Wind Engineering <i>(Chair - Chris Geurts)</i>

15:00-15:15	03.1 Flutter stability of a single-box deck: effect of geometry details and external factors on the critical wind speed <i>Tommaso Argentini, Filippo Calamelli, Alberto Zasso, Jungao Wang</i>	03.5 A benchmark on the aeroelastic response of a bluff body? <i>Thomas Andrienne, Tommaso Massai, Claudio Mannini</i>	03.9 Initial results of international wind tunnel and CFD study for structural design <i>SC Breitkopf, A Sander, C Hartz</i>	03.13 Determination of major timescales of measured vortex-induced vibrations of suspension bridge hangers <i>G. Bacci, Ø.W. Petersen, V. Denoël, O. Øiseth</i>	03.17 Numerical modelling of a louvered balustrade with angled slats as porous media to improve windiness on small balconies <i>P. Riedel, R. Ramponi, J. Druere, A. Allsop, G. Pomaranzi, P. Schito</i>	03.21 On the Impact of Hedgerows in Urban Street Canyons on Traffic Pollutant Dispersion <i>C. Gromke</i>
15:15-15:30	03.2 Vortex induced vibrations and aerodynamic stability of multi-span twinned steel bridges – wind tunnel testing <i>S. Poulain, V. Maina</i>	03.6 A novel wake-oscillator model for predicting VIV of 4:1 rectangular cylinder <i>Yi Hui, Yuanyan Tang</i>	03.10 Bluff Body Benchmark from a CFD perspective: past and present experiences in the computational simulation of aerodynamic responses of bluff bodies <i>Felix Nieto, Poorya Poozesh, Antonio J. Álvarez, Santiago Hernández</i>	03.14 Impact of Attack Angle on Low-Frequency Aerodynamic Response of a Ridged Circular Cylinder <i>Ran Wang, Shaohong Cheng, David S-K. Ting</i>	03.18 Deep Neural Networks for Reconstruction of Turbulent Wake behind a Bluff Body from Randomly Distributed Sparse Data <i>Peixing Xie, Yong Cao</i>	03.22 Effects of sound on bluff body aerodynamics in separating and reattaching flows <i>Lixuan Zhao, Qiusheng Li</i>
15:30-15:45	03.3 Aerodynamic properties and flow mechanism of the foot plank blown over on the railway bridges <i>Yage Wu, Huan Li, Jing Zhu, Xuhui He</i>	03.7 Transverse vortex-induced vibrations of a circular cylinder under stochastic flow <i>Kumar Sourav, Dipanjan Majumdar, Sunetra Sarkar</i>	03.11 Transient buffeting analysis with URANS and unsteady inflow <i>Casimir Katz, Henk Krus</i>	03.15 Operational mechanical environment analysis for stay cable's dampers considering the joint effects of vehicle loads and wind loads <i>Yafei Wang, Zhouquan Feng, Xugang Hua, Zhengqing Chen</i>	03.19 CFD assessment of the effects of pedestrian bridge configurations between the high-rise buildings for wind energy-based <i>Yu-Hsuan Juan, Wan-Yi Chen</i>	03.23 Effectiveness of chamfered corners in reducing aerodynamic interference of tall buildings: An LBM-based LES CFD study <i>Saiful Naim Sulaiman, Thomas Indinger, Christian F. Janssen</i>
15:45-16:00	03.4 A surrogate model for predicting buffeting induced stresses at bridge decks for fatigue life estimation <i>Zubair Zahoor Banday, Aksel Fenerci, Tor Martin Lystad, Ole Andre Øiseth</i>	03.8 Aeroelastic Response of a Chord-Wise Flexible Foil in a Bluff-Body Wake <i>Paras Singh, Samiksha Dhakal, Chandan Bose</i>	03.12 The Impact of ABL Simulation on a High-Rise Building Wind Tunnel Testing <i>Omar Gómez-Ortega, Alejandro Martínez-Cava, Sergio Marín-Coca, Carolina Hernández-Badillo, Carlos Carbajosa</i>	03.16 Photometric Scanning and Reproduction of Ice Accretion on a Bridge Cable Section <i>Holger H. Koss</i>	03.20 Flow around six in-line square cylinders <i>Hamidreza Eizadi, Tongming Zhou, Hongwei An, Hongjun Zhub and Liang Cheng</i>	03.24 The influence of hill's shape on internal flow field of the tunnel under crosswind <i>R. Xue, X. Xiong, G. Chen</i>
16:00-16:30	Refreshments Break, Exhibition and Poster Viewing					
Parallel sessions 4						
	Room 1 Environmental Wind Engineering <i>(Chair - Giulio Vita)</i>	Room 2 Mini-Symposium – Sport <i>(Chair - Bert Blocken & Thomas Andrienne)</i>	Room 3 Mini-Symposium – FSI <i>(Chair - Chandan Bose and Grigorios Dimitriadis)</i>	Room 4 Performance Based Wind Engineering <i>(Chair - Ahmed Elshaer)</i>	Room 5 Non-Synoptic Winds <i>(Chair - Mike Jesson)</i>	Room 6 Computational Fluid Dynamics <i>(Chair - Casimir Katz)</i>
16:30-16:45	04.1 Validation of urban airflow measurements through a combined field test and wind tunnel study <i>S. McTavish, H. Barber, A. Wall</i>	04.6 Aerodynamic performances of a fairing for paragliding <i>Simon Dehareng, Thomas Andrienne</i>	04.11 VIV of a twin-box deck: time-frequency analysis and relationship between local and global aerodynamic forces <i>A. J. Álvarez, F. Nieto, S. Hernández</i>	04.16 Mode shape correction for HFFB technology of high-rise buildings with different side ratios <i>Kanghui Han, Guohui Shen, Yonghan Jiang, Shixiong Zheng, Linghui Que, Xinyuan Bao</i>	04.21 Investigation of transient aerodynamic forces on a hemispherical dome under ramp-up flows <i>Yuan-Lung Lo, Matthew S. Mason, Yang Li, Yuhui Zhang, Yu-Chia You</i>	04.26 Turbulent flow past 3:2 rectangular cylinder: A 3D LES study using synthetic generation method <i>P. Laws, A.J. Álvarez, F. Nieto, L. Patruno</i>
16:45-17:00	04.2 Uncertainty quantification using Gaussian processes for topographic speed-up factors from CFD simulations <i>Yunjae Hwang, Adam Pintar, DongHun Yeo</i>	04.7 Different assessments of aerodynamic performances of cycling helmets <i>L. Fogueune, C. Schwartz, J. Wiggins, T. Andrienne</i>	04.12 Passive Self-adaptive Flaps For 3d Blunt Body Drag Reduction <i>J. M. Camacho-Sánchez, M. Lorite-Díezb, c, O. Cadot, J. I. Jiménez-González</i>	04.17 Experimental investigation on wind loads of planar porous façades <i>Bao xinyuan, Guohui Shen, Kanghui Han, Yonghan Jiang, Lingui Que, Shixiong Zheng</i>	04.22 Structural performance of multi-span transmission line system under tornado-like wind field <i>Dahai Wang, Tao Chen, Lin Yang</i>	04.27 On the three-dimensional coherent structures in the wake of flatback airfoils <i>Konstantinos Kellaris, George Papadakis, Marinos Manolesos</i>
17:00-17:15	04.3 On using variable turbulent	04.8 Some insights in the aerodynamic	04.13 Aerodynamic forces on	04.18 Experimental study on wind-	04.23 Wind loads on a tall building model	04.28 Numerical Analysis of

	Schmidt number (Sct) for near-field air pollutant dispersion modelling <i>A. U. Weerasuriya, R. Longo, X. Zhang, L. Cotteleer b A. Parente</i>	impact of the chest fairing in time trial cycling <i>Bert Blocken, Fabio Malizia, Thijs van Druenen</i>	arrangements of rough cylinders in post-critical flow <i>Gershom Easanesan, Daniel Tudball Smith, Christopher Brown, Anil Pasam, Mark C. Thompson and David Burton</i>	induced interference effects between two square-section high-rise buildings in polar coordinates <i>Linghui Que, Guohui Shen, Shixiong Zheng, Kanghui Han, Yonghan Jiang, Xinyuan Bao</i>	behind non-uniform passive grid screens <i>Yuhui Zhang, and Matthew Mason</i>	Aerodynamic Properties of Tapered Square Cylinder with Eccentricity <i>Yuki Nagao, Tetsuro Tamura, Hidenori Kawai, Yusuke Maruyama</i>
17:15-17:30	04.4 Spatiotemporal assessment of offshore wind resources in the Guangdong-Hong Kong-Macau Greater Bay Area under climate change <i>J.Y. He, Q.S. Li, P.W. Chan</i>	04.9 A Generic Cycling Model <i>Christopher Brown, Wouter Terra, Andrea Sciacchitano, Max van der Waals, Toon Huysmans, Mark C. Thompson and David Burton</i>	04.14 Optimization of the equivalent oscillator for VIV modelling <i>Alessandro Galimberti, Federico Zanelli, Tommaso Argentini, Sara Muggiasca</i>	04.19 Layout Optimization of Tall Buildings Using Surrogate Models: A Performance-Based Wind Design Approach <i>Magdy Alanani, Ahmed Elshaer</i>	04.24 Nonlinear dynamic response of structures under stochastically simulated downburst wind loads <i>Matiyas A Bezabeh, Nahom K. Berile, Djordje Romanic</i>	04.29 CFD-aided Wind Tunnel Simulation of Wind Field over Complex Mountainous Terrain <i>Yingzhu Meng, Bowen Yan, Xu Zhou, Xiao Li, Xuhong Zhou, Qingshan Yang</i>
17:30-17:45	04.5 Contributions of typhoon key parameters on predicted wind speed in Hong Kong considering climate change impacts <i>Jiayao Wang, You Dong, Sunwei Li</i>	04.10 Influence of turbulence on fabric configurations on a circular cylinder <i>Christopher Brown, James Hackett-Smith, Daniel Tudball Smith, Mark C. Thompson, David Burton</i>	04.15 Experimental study on fatigue performance of standing seam metal roof with anti-wind clips <i>Z. Wang, Q. S. Yang, M. Liu, Q. S. Liang, Y. Y. Qian, Y. L. Guo</i>	04.20 Experimental analysis of the three-dimensional aeroelastic instability modes of a flat-plate solar tracker <i>José Luis Ruiz-Moral, Omar Gómez-Ortega, Raúl Manzanares-Bercial, Sergio Marín-Coca, Adriana Carolina Hernández-Badillo, Carlos Rodríguez-Casado</i>	04.25 Framework for Scaling and Analyzing Downburst-like Outflows in Wind Tunnels—methodology and case study <i>Mohamed Eissa, Amal Elawady</i>	04.30 Designing a Venturi-shaped roof to maximize wind energy harvesting by building integrated wind turbines <i>Xiaodan Fan, Xiulan Ye, Xuelin Zhang, A. U. Weerasuriya</i>

Day 2: Wednesday 31 July 2024

08:30-09:00	Registration, Exhibition, Poster Viewing and Refreshments					
09:00-09:50	Keynote Lecture - Main Hall (Chair - Bert Blocken) Exploring the Potential of Joint Field Measurements and Numerical Simulations For Wind Engineering, Professor Catherine Gorlé					
09:50-10:05	Plenary session - Main Hall (Chair - Gianni Bartoli) On the Analogous Role of Damping Turbulence and Noise in Taming Dynamic Systems, Professor Ahsan Kareem					
10:05-10:30	Refreshments Break, Exhibition and Poster Viewing					
Parallel Sessions 5						
	Room 1 Bridge Aerodynamics <i>(Chair - Aksel Fenerci)</i>	Room 2 Mini-Symposium - FSI <i>(Chair - Chandan Bose and Grigorios Dimitriadis)</i>	Room 3 Computational Fluid Dynamics <i>(Chair - Jennifer Keenahan)</i>	Room 4 Vehicles Aerodynamics <i>(Chair – David Soper)</i>	Room 5 Wind Energy Systems <i>(Chair - Luca Caracoglia)</i>	Room 6 Mini-Symposium - Tornadoes <i>(Chair - Guirong Yan-Grace)</i>
10:30-10:45	05.1 Characteristic analysis and occurrence probability prediction of vortex-induced vibration of prototype bridge based on long-term health monitoring data <i>Liutian Zhang, Wei Cui, and Lin Zhao</i>	05.5 Wavelength effects on wavy elliptic cylinder wake <i>Xiaoyu Shi, Md. Mahub Alam</i>	05.9 On the performance of SRANS, URANS and SAS in the prediction of the wind characteristics around high-rise buildings <i>Jose Romero, Bert Blocken, Hassan Hemida, Mark Sterling</i>	05.12 Experimental investigation into the Reynolds sensitivity of square back automotive bodies in close proximity <i>J. Upton, A. Garmory, D. Butcher</i>	05.16 Design optimization of flat roof mounted solar panels: A full-scale study and geometric scaling challenges <i>Stefanie Gillmeier, Alessio Ricci, Bert Blocken</i>	05.20 A Numerical Study on Effects of Terrain and Land Cover on Tornadic Characteristics in Lower Boundary Layer <i>Jiamin Dang, Jana Houser, Yi Zhao, Guirong Yan</i>
10:45-11:00	05.2 Study on the Flutter Performance and Flutter Analysis Path of Long-Span Stress-Ribbon Bridges <i>Shengqi Wang, Xugang Hua, Bei</i>	05.6 Effect of aspect ratio and chordwise pitching axis location on aerodynamic forces of flapping wings <i>Raj Kiran Sangoju, Nipun Arora</i>	05.10 Investigation of the wind loads and flow pattern of high-rise buildings under twisted wind flows based on continuous-scale distribution synthetic eddy	05.13 The influence of wheels on the Wake of a Square-back Automotive <i>Yujing Li, Chao Xia, Lei Yu, Zhigang Yang</i>	05.17 Flutter of wind turbine blades under load perturbations and rotationally sampled turbulence: parametric studies <i>Luca Caracoglia</i>	05.21 Determination of Tornado Wind Loads on Low-Rise Buildings <i>O. Hernandez, Gregory. A. Kopp</i>

	<i>Chen, Zhengqing Chen</i>		<i>Longfei Tang, Hongjun Liu, Chaocong Zheng</i>			
11:00-11:15	05.3 Buffeting performance of long-span bridges with 1500 m-2500 m main span under parametric typhoon wind fields <i>Lin Zhao, Zhilong Wang</i>	05.7 Some observations on the flow field and aerodynamic noise of flow past an elliptic cylinder at high Reynolds number <i>H.D. Lim, Guanjiang Chen, Bin Zang, Mahdi Azarpeyvand</i>	05.11 Aerodynamic bidirectional prediction between wake velocity and surface pressure using a deep learning technique <i>Junle Liu, Kihing Shum, K.T. Tse, Gang Hu</i>	05.14 The aerodynamical impact of overtaking manoeuvres on platooning vehicles <i>Samuel Marshall, David Soper, Karl Snape, Mark Sterling and Stefanie Gillmeier</i>	05.18 Surrogate based blade optimization of a 2MW airborne wind turbine concept design <i>A. J. Álvarez, T. Sapsis, F. Nieto</i>	05.22 Wind pressure characteristics on multi-span sawtooth-roofed buildings under tornado-like vortices <i>Zheng Li, Jinxin Cao, Shuyang Cao</i>
11:15-11:30	05.4 The Mechanism of Multi-mode Flutter Analysis during Girder Construction Stage of Suspension Bridge <i>Jinjie Zhang, Jinbo Zhu, Yongxin Yang</i>	05.8 Effects of the flexible films on the vortex-induced vibration of two tandem 4:1 rectangular cylinders <i>Jing Zhu, Hanfeng Wang, Hongyu Zhu</i>		05.15 Full-scale assessment of vehicle wind loading on the Great Belt East Bridge <i>A Larsen, M B Eriksen, F R Gottfredsen</i>	05.19 Aerodynamic characteristics of wind turbine blades under extreme wind considering gust wind parameters <i>Yue Cheng, Lin Zhao</i>	05.23 A comparative study on the treefall pattern generated by two different vortex models <i>Sung Min Moon, Franklin T Lombardo, Leigh Orf, David Roueche</i>
11:30-11:45	Transition Break					
11:45-12:45	Keynote Lecture - Main Hall (Chair - Greg Kopp) Large-Scale Turbulence Parametric Effects on the Aeroelastic Behaviour of Bluff Bodies: from a Rectangular Cylinder to Long-Span Bridges, Professor Claudio Mannini					
12:45-13:00	Poster Presentations and Conference Announcements					
13:00-13:30	Lunch, Exhibition and Poster Viewing					
13:30-19:30	Trip to Stratford Upon Avon Please note this is for those who purchased tickets during registration only					

Day 3: Thursday 1 August 2024

08:30-09:00	Registration, Exhibition, Poster Viewing and Refreshments					
09:00-10:00	Keynote Lecture - Main Hall (Chair - Mark Sterling) How Studying Tornadoes Fundamentally Changes how we should study Bluff-Body Aerodynamics, Professor Fred Haan					
10:00-10:05	Conference Announcements					
10:05-10:30	Refreshments Break, Exhibition and Poster Viewing					
Parallel sessions 6						
	Room 1 Computational Fluid Dynamics <i>(Chair - Zhong-Nan Wang)</i>	Room 2 Mini-symposium Wind on Structure <i>(Chair - Qingshan Yang)</i>	Room 3 Energy Harvesting <i>(Chair - Chandan Bose and Grzegorz Litak)</i>	Room 4 Vehicles Aerodynamics <i>(Chair - Fenella de Souza)</i>	Room 5 Non-Synoptic Winds <i>(Chair - Matthew Mason)</i>	Room 6 Bridge Aerodynamics <i>(Chair - Xinzhong Chen)</i>
10:30-10:45	06.1 3D LES simulation of rod-induced small-scale turbulent flow around a 3:2 rectangular prism <i>A. J. Álvarez, F. Nieto, K.C.S. Kwok, L. Patruno</i>	06.5 Insight on unsteady lift of an airfoil under streamwise turbulence <i>Shaopeng Li, Zhaoyu Yang, Qingshan Yang, Zhiyang Li, Xin Li</i>	06.9 Laminar flows over finite rotating cylinders <i>Kai Zhang, Yong Cao, Hongbo Zhu, Yan Bao, Dai Zhou</i>	06.13 Experimental and numerical evaluation of the aerodynamic drag for different configuration of a conventional train <i>Francesco Moro, Claudio Somaschini, Daniele Rocchi, Stefano Raiti, Gianluca Zanetti</i>	06.17 Testing the Capabilities of Wind Tunnel Fans as large-scale velocity fluctuation generators <i>Marcello Catania, Lars Neuhaus, Michael Hölling, Alberto Zasso</i>	06.21 Crosswind characteristics around bridge main tower with wind barrier <i>Haeyoung Kim, Shuya Konno, Takumi Yasuda, Kichiro Kimura, Hiroshi Katsuchi, Jiaqi Wang</i>
10:45-11:00	06.2 Surrogate Model Updating-based Aerodynamic Shape Optimization of a Triangular Cylinder with Corner Recession Modification <i>J A Mulyanto a, Z Wang, C Zheng</i>	06.6 Peak wind force coefficients on permeable panels installed around the rooftop perimeter of high-rise building	06.10 Experimental and numerical investigation on the effect of bluff body shapes and its surface roughness on the performance of a Vortex Induced Vibration Energy	06.14 Experimental-numerical analysis of train slipstream in confined spaces <i>S. Negri, G. Tomasini, P. Schito, D. Rocchi</i>	06.18 Detecting non-stationary wind events at the Hålogaland Bridge <i>S.K. Hansen, O.A. Øiseth a, A. Fenerci, Ø.W. Petersen</i>	06.22 Long-term aerodynamic performance of bridge decks under uncertain wind and turbulence conditions <i>Aksel Fenerci, Tor Martin Lystad,</i>

		<i>T. Aihara, Y. Uematsu</i>	Harvester system (VIVEHS) <i>Dineshkumar Ravi and Grzegorz Litak</i>			<i>Zubair Zahoor Bandy, Ole Øiseth</i>
11:00-11:15	06.3 Evaluation of wind flow and structural loads by the Dynamic Terrain approach <i>Theodore Potsis, Ted Stathopoulos</i>	06.7 Lyapunov analyses of bridge stability in turbulent flow <i>Niccolò Barni, Gianni Bartoli, Claudio Mannini</i>	06.11 Control of Wake induced Vibration of an elastically mounted sphere <i>Sachin S B, Abhishek Thakur, Atul Sharma</i>	06.15 Aerodynamic characteristics of enclosed noise barriers induced by the high-speed trains <i>Xiaoyu Ji, Haiquan Jing, Xuhui He</i>	06.19 LES simulation on the CAARC standard tall building under thunderstorm downbursts <i>Josip Žužul, Alessio Ricci, Massimiliano Burlando, Jubayer Chowdhury, Djordje Romanic, Horia Hangan</i>	06.23 Effect of nonlinear structural damping on post-flutter of a bridge girder <i>Chaoqun Wang, Xugang Hua, Yu Tang, Zhengqing Chen</i>
11:15-11:30	06.4 Numerical simulation study on forced vibration of a super high-rise building based on LES <i>Chao Tan, Yong Quan, Guoqiang Fu</i>	06.8 Exploring Transcritical Reynolds Number Effects: Flow Around an Ultra-Smooth Tower <i>Ika Kurniawati, Francesca Lupi, Rüdiger Höffer</i>	06.12 Pressure distribution at the interior part of a small ducted wind turbine casing <i>Costin Ioan Coșoiu, Ovidiu Popescu, Elena Alexandra Chiulan, Andrei Mugur Georgescu</i>	06.16 Large-eddy simulation of fluctuating aerodynamic force on train with meandering airflow beneath the underbody <i>Takumi Abe, Koji Nakade</i>	06.20 Aerodynamic and multi-degree of freedom aero-elastic testing of high-rise buildings under downburst-like outflows <i>Omar Metwally, Haitham A.Ibrahim, Amal Elawady</i>	
11:30-11:45	Transition Break					
Parallel sessions 7						
	Room 1 Computational Fluid Dynamics <i>(Chair - Stefanie Gillmeier)</i>	Room 2 Mini-Symposium Wind on Structure <i>(Chair - Qingshan Yang)</i>	Room 3 Environmental Wind Engineering <i>(Chair - Christof Gromke)</i>	Room 4 Vehicles Aerodynamics <i>(Chair - Sungmoon Jung)</i>	Room 5 Fluid Structure Interaction <i>(Chair - Zengshun Chen)</i>	Room 6 Performance Based Wind Engineering <i>(Chair - Tariq Saeed)</i>
11:45-12:00	07.1 Assessment of aerodynamic force coefficients on different solar panels by LES simulations <i>Anjali Radhakrishnan Jayakumari, Alessio Ricci, Stefanie Gillmeier</i>	07.5 Aerodynamic loading and operation safety for a high-speed train under tornado-like vortices <i>Jinxin Cao, Shuyang Cao, Yaojun Ge</i>	07.9 Machine-Learning-based Tropical Cyclone Wind Field Modelling Incorporating Multiple Meteorological Parameters <i>Miaomiao Wei, Nikolaos Nikitas, Genshen Fang, Yaojun Ge</i>	07.13 CFD analysis of exhaust flow for reducing soot stains on railcar body surfaces <i>Natsuki Harada, Yuhei Noguchi, Yuto Araki, Tokuzo Miyachi</i>	07.17 Mitigation of Wind Load on Low-rise Buildings Using Roof Parapets: A Numerical and Experimental Study <i>Raghdah Al-Chalabi, Ahmed Elshaer</i>	07.21 Experimental Study of Wind Load on Tall Buildings <i>Deepshikha Shukla, Ashutosh Sharma, Ajay Gairola</i>
12:00-12:15	07.2 Flow around a circular cylinder in oscillatory flow with non-zero-mean velocity and its drag force modelling <i>Yayang Huang, Shuyang Cao, Yuxin Zhang, Jinxin Cao, Qingshan Yang</i>	07.6 Eigenvalue-based method for simulating multi-dimensional homogeneous non-Gaussian stochastic vector fields <i>Yan Jiang, Liuliu Peng, Yuying Xia, Beilong Luo</i>	07.10 Dispersion Characteristics in the wake of tall building clusters <i>Dianfang Bi, Abhishek Mishra, Matteo Carpentieri, Marco Placidi, Alan Robins</i>	07.14 Assessment of driving safety and comfort during vortex-induced vibrations in long-span bridges <i>Yiheng Fu, Wei Cui, Lin Zhao</i>	07.18 Pressure and wind load characteristics of a tall building aeroelastic model under laboratory simulated tornado <i>Nayan Deep, Partha Sarkar</i>	07.22 Compensation of extreme wind pressure on saddle roof by partial turbulence simulation method for missing of low-frequency turbulence in wind tunnel test <i>L. P. Hou, M. Liu, Q. S. Yang</i>
12:15-12:30	07.3 Effect of side recirculation zones on the aerodynamic load characteristics of a 2:1 rectangular cylinder <i>Mengmeng Liu, Jinxin Cao, Shuyang Cao</i>	07.7 Transient linear galloping in a square cross-section exposed to time-varying mean wind angles of attack <i>Hao-Yu Bin, Stefano Brusco, Giuseppe Piccardo</i>	07.11 Impact of Upstream Mountain Terrain and Urban Exposure on Approaching Wind Characteristics <i>Jianhan Yu, Jia Tang, Mingshui Li</i>	07.15 Wind Flow Management Over Helipads Toward Stable Helicopter Landing and Take-Off <i>Kamran Shirzadeh, Rose Babaei, Saba Saneinejad, Daniel Hackett</i>	07.19 A study on across-wind power spectra of tall buildings <i>Cini Anoop, P.S. Rahul, G. Sindhu, K. Suresh Kumar</i>	07.23 Scaling wind loads for Incremental Dynamic Analysis Applications <i>Anastasia Athanasiou, Lucia Tirca, Theodore Stathopoulos</i>
12:30-12:45	07.4 Aerodynamic Characteristics and Flow State Variations of	07.8 Experimental investigation in	07.12 A self-adaptive evolutionary algorithm to enhance	07.16 On the use of rotary flaps on a	07.20 Numerical wind dynamic assessment of tall	07.24 A method for stationary non-Gaussian wind

	Oscillating Tandem Cylinders <i>Zhaohui Luo, Wei Cui, Lin Zhao</i>	nonlinear aerodynamic characteristics of a double-layer truss girder <i>Jiankun Li, Cunming Ma, Bo Wu</i>	RANS wind pressure predictions in flow separated regions <i>Sifat R. Khan, Pedro L. Fernández-Cabán</i>	simplified model of a heavy vehicle <i>M. Lorite-Díez, J. M. Camacho-Sánchez, J. I. Jiménez-González, C. Martínez-Bazán</i>	mass timber building using fluid-structure interaction method <i>Chi ZHANG, Yuxin PAN</i>	pressure simulation based on IFFT and phase modulation <i>N. Nie, L. Da a, Q. Yang, J. Zhou, J. Yang</i>
12:45-13:30	Lunch, Exhibition and Poster Viewing					
13:30-14:30	Keynote Lecture - Main Hall (Chair - Shuyang Cao) Incorporating Trees in High-Fidelity Wind and Microclimate Simulations, Professor Maarten van Reeuwijk					
Parallel sessions 8						
	Room 1 Bridge Aerodynamics <i>(Chair - Jianhan Yu)</i>	Room 2 Environmental Wind Engineering <i>(Chair - Yoshihide Tominaga)</i>	Room 3 Fluid Structure Interaction <i>(Chair - Ileana Calotescu)</i>	Room 4 Computational Wind Engineering <i>(Chair - Clara Garcia-Sanchez)</i>	Room 5 Vehicles Aerodynamics <i>(Chair - Zhenxu Sun)</i>	
14:30-14:45	08.1 Study on the influence of a Tesla-type wind barrier and its effects on the vortex-induced vibration of bridge deck <i>Jianming Hao, Tong Zhang, Bo Su, Jiuliang Li, Jiawu Li</i>	08.5 Twin wind tunnel tests of flow past a building with openings and façade and rooftop greening <i>Vasiliki Pappa, Christof Gromke, Demetri Bouris</i>	08.9 Wind-induced dynamic response of a self-supported antennae lattice tower <i>Ileana Calotescu, Daniel Bîtcă, Ioana Claudia Tomescu</i>	08.13 The control mechanism of owl-inspired trailing fringe on the flow properties of an airfoil <i>Zhi Deng, Wen-Li Chen, Zifeng Yang</i>	08.16 Investigation of the link between vehicle underbody and base unsteady wake aerodynamics <i>C. Wallace, A. Garmory, A. Gaylard, D. Butcher</i>	
14:45-15:00	08.2 Bayesian modelling-based metamodel by different Markov Chain sampling techniques for critical flutter velocity prediction with uncertainty quantification <i>Séverin Tinmitond, Ledong Zhu</i>	08.6 ANN-based physio-chemical prediction of the photochemical cycle and the reactive air pollutant dispersion in an urban environment <i>Xisheng Lin, Yunfei Fu, Daniel Ziyue Peng, Cruz Y. Li, Tim K.T.Tse, Yixiang Wang, Xinxin Feng</i>	08.10 Wind pressures on non-curved and non-rectangular roofs <i>Murad Aldoum, Ted Stathopoulos</i>	08.14 Investigation on the effects of wind barrier on the aerodynamic performance of B/D = 5 rectangular cylinder <i>Jiaqi Wang, Hiroshi Katsuchi</i>	08.17 Aerodynamic drag reduction of vehicles based on vertical axis wind turbine <i>Bo Liu, Gang Hu, Kenny Kwok</i>	
15:00-15:15	08.3 Local and Global Optimum Design in Aero-Structural Optimization of Long-Span Bridges Considering Flutter <i>Miguel Cid Montoya, Santiago Hernández, José Ángel Jurado</i>	08.7 Interstitial Blinds - assessing the risk of flutter and measurement of flow velocities within the cavity <i>Jurgens Badenhorst, Jennifer Keenahan, Rubina Ramponi, Reamonn MacReamoinn, Kevin Nolan</i>	08.11 Aerodynamic Considerations for the Revision of the Main Wind Force Provisions in ASCE7 <i>Yitian Guo, Jin Wang, Timothy Acosta, Stefano Brusco, Gregory A. Kopp</i>	08.15 The application of a three-dimensional vortex-in-cell approach to simulate the heads-on collision of two vortex rings <i>Chieh-Hsun Wu</i>	08.18 Optimised drag configurations of an Ahmed body in crossflow with top and bottom rear morphing spoilers allowing twisted deformations <i>Yajun Fan and Olivier Cadot</i>	
15:15-15:30	08.4 Aero-structural design of bridge decks under non-synoptic winds using an aeroelastic surrogate comprising shape, reduced velocity, and mean angle of attack <i>Sumit Verma, Miguel Cid Montoya, Ashutosh Mishra</i>	08.8 Spectral proper orthogonal decomposition-driven insights into pollutant dispersion in a single street canyon <i>Xisheng Lin, Bingchao Zhang, Cruz Y. Li, Tim K.T. Tse, Yunfei Fu</i>	08.12 Performance of a blockage tolerant open test section boundary layer wind tunnel <i>K. Suresh Kumar, P.S. Rahul, Cini Anoop, N. Shafeek</i>		08.19 Database-Assisted Design Facilitating Performance-Based Tall Building Design <i>Daniel M. Rhee, Sophie Sisson, Brian Carman, Mehedy Mashnad, DongHun Yeo</i>	
15:30-16:00	Refreshments Break, Exhibition and Poster Viewing					
Parallel sessions 9						
	Room 1 Bridge Aerodynamics <i>(Chair - Ole Øiseth)</i>	Room 2 Mini-Symposium - Transient wind characteristics and loading <i>(Chair - Frank Lombardo)</i>	Room 3 Mini-Symposium - Vegetation <i>(Chair - Maarten van Reeuwijk)</i>	Room 4 Environmental Wind Engineering <i>(Chair - Mohammadreza Mohammadi)</i>	Room 5 Fluid Structure Interaction <i>(Chair - Cung Nguyen)</i>	
16:00-16:15	09.1 The influence of gantry rails on twin-box deck aerodynamics <i>Maja Rønne, Allan Larsen, Jens H. Walther, Tommaso Argentini, Daniele Rocchi</i>	09.6 Generating vortices in straight-line wind simulators <i>Faiaz Khaled, Franklin Lombardo</i>	09.11 Mapping volumetric tree modelling parameters to the aerodynamic characteristics of wind tunnel tree models <i>Dipanjana Majumdar, Maarten van Reeuwijk</i>	09.16 A topographic study for Julsundet Bridge Project <i>Giulia Pomaranzi, Tommaso Argentini, Jungao Wang, Alberto Zasso</i>	09.21 Prediction of nonlinear flutter responses through forced vibration tests via complexification-averaging method <i>Wei Cui, Teng Ma, and Lin Zhao</i>	

16:15-16:30	O9.2 Modality of 3-DOF flutter across various frequencies: explicit solutions for amplitude ratio and phase difference <i>Zuopeng Wen, Genshen Fang, Yaojun Ge</i>	O9.7 Assessment of Tornado loading on A Building Considering Transient Internal Pressure <i>Xinyang Wu, Qiang Chen, Delong Zuo</i>	O9.12 Wind Microclimate Guidelines for UK Urban Environmental Quality. Lessons learnt on vegetation <i>Giulio Vita, Stefano Capra</i>	O9.17 The minimum range value of upstream fetch area for urban exposure <i>Shixiong Zheng, Guohui Shen, Kanghui Han, Yonghan Jiang, Linhui Que, Xinyuan Bao</i>	O9.22 Investigation of the elliptical motion trajectory induced by the downstream interference effects <i>Cheng-Wei Chen, Yuan-Lung Lo, Cheng-Hsin Chang</i>
16:30-16:45	O9.3 Flow characteristics downstream of a yawed bridge model <i>Nicolò Daniotti, Jasna B. Jakobsen, Jonas T. Snæbjörnsson</i>	O9.8 Influence of freestream turbulence on aerodynamics drag forces on rectangular cylinders in accelerating wind flow <i>Matthew Mason, Ting Yang</i>	O9.13 Urban flow predictions around trees: does the level of detail matter? <i>Runnan Fu, Ivan Pađen, Clara García-Sánchez</i>	O9.18 A canopy drag model for large eddy simulation of the neutral atmospheric boundary layer over heterogeneous terrain <i>Yi Lu, Yong Quan</i>	O9.23 Realization of the Koopman linear-time-invariance notion: decoupling and quantification of cause-effect relationships in fluid-structure interactions <i>Cruz Y. Li, Yunfei Fu, Xisheng Lin, Daniel Ziyue Peng, Yixiang Wang, Zengshun Chen, Tim K.T. Tse, Xuelin Zhang</i>
16:45-17:00	O9.4 Experimental investigation on the nonlinear torsional flutter motion of a typical truss bridge deck <i>Haohong Li, Qingshan Yang, Liangliang Zhang, Kunpeng Guo</i>	O9.9 Investigation of full-scale wind loading from naturally occurring vortices <i>Franklin T. Lombardo</i>	O9.14 Using small green spaces to cool urban neighbourhoods: modelling optimal size, shape and distribution <i>Yehan Wu, Andy Acred, Agnès Patuano, Bardia Mashhoodi, Laura Narvaez Zertuche, Sanda Lenzholzer</i>	O9.19 Wind tunnel experiment of sand surface deformation around obstacle with simple shape <i>Yoshihide Tominaga, Xin Zhang</i>	O9.24 A formula of the quantile of the extreme wind pressure coefficient to estimate the extreme wind pressure with a target mean recurrence interval <i>L. Da, Q. S. Yang ab, M. Liu, B. L. Cheng, J. J. Zhou</i>
17:00-17:15	O9.5 Vortex shedding in the wake of a full-scale bridge deck <i>Nicolò Daniotti, Jonas T. Snæbjörnsson, Jasna B. Jakobsen, Etienne Cheynet</i>	O9.10 Full-scale Measurements of Dust Devils: An Avenue towards a Better Understanding of Tornadoes <i>Wesam Mohamed, Franklin T. Lombardo, Ryan Croce</i>	O9.15 How does neighbourhood layout affect urban meteorology and the local microclimate? <i>Christopher Wilson, Athanasios Paschalis, Sylvia Bohnenstengel, Jon Shonk and Maarten van Reeuwijk</i>	O9.20 Aerodynamic Testing of Buildings: Insights from Large Experiments in an Open-Jet Facility <i>Aly Mousaad Aly, Md. F. Khaled, R. Clancy</i>	O9.25 Large-amplitude aeroelastic sectional-model flutter tests on the Tacoma Bridge deck <i>Qing Zhu, Bi-Shang Zhang, Le-Dong Zhu</i>
19:00 – 22:00	Conference dinner – including a special talk by Chris Baker, The Oldest World Record – Throwing the Cricket Ball (Chair - Claudio Borri) Council House, Birmingham City Centre Please note this is for those who purchased tickets during registration only				

Day 4: Friday 2 August 2024

08:30-09:00	Registration, Exhibition, Poster Viewing and Refreshments				
09:00-10:00	Keynote Lecture - Main Hall (Chair - Yukio Tamura) Advances in Computational and Experimental Wind Engineering for Wind-Resilient and Sustainable Buildings, Professor Girma Bitsuamlak				
10:00-10:30	Refreshments Break, Exhibition and Poster Viewing				
Parallel sessions 10					
	Room 1 Computational Fluid Dynamics <i>(Chair - Zhong-Nan Wang)</i>	Room 2 Bridge Aerodynamics <i>(Chair - Soon-Duck Kwon)</i>	Room 3 Fluid Structure Interaction <i>(Chair - Jónas Snæbjörnsson)</i>	Room 4 Performance Based Wind Engineering <i>(Chair - David Sumner)</i>	Room 5 Wind Energy Systems <i>(Chair - Felix Nieto)</i>
10:30-10:45	O10.1 CFD simulation on wind loading of trees in high-rise buildings with vertical forest <i>Shu-Yi Liu, Jaycie Wu, Zheng-Wei Zhang</i>	O10.5 Critical wind speed formula for coupled flutter <i>Tibebu H. Birhane, Girma T. Bitsuamlak</i>	O10.9 Analysis of Vortex-Induced Vibration Mechanisms of a 5:1 Bluff Body Based on Flow Characteristics <i>Geng Xue, Yanmei Tang, Laima Shujin</i>	O10.13 Wind vibration response of substation pillar switchgear based on wind tunnel test <i>J. Wang, M. Liu, S. Nie, S. Liu, P. Li</i>	O10.17 Aeroelastic tests on solar tracker models built with different techniques <i>Arturo Carboné, Mikel Ogueta-Gutiérrez, Sebastián Franchini, Jose Luis Ruiz Moral, Carlos Carbajosa</i>
10:45-11:00	O10.2 Characteristics on fluctuation of sectional wind forces for high-rise building in building cluster <i>Hidenori Kawai, Tetsuro Tamura</i>	O10.6 Average parametric effect of turbulence on bridge deck aerodynamics <i>Niccolò Barni, Claudio Mannini</i>	O10.10 Flow-induced oscillations of a tapered circular cylinder <i>Mayank Verma, Ashoke De</i>	O10.14 Aerodynamic characteristics of airfoils equipped with vortex generators and Gurney flaps in dynamic stall conditions <i>Marin Ivanković, Marvin Jentzsch, Anna Friederike Rahel Großmann, Vladimir Zimmermann, Marinos Manolesos, Christian Navid Nayeri, Hrvoje Kozmar</i>	O10.18 Critical wind speeds in self-excited instability of single-axis flat solar trackers: comparison between sectional and full aeroelastic tests <i>Juan A. Cárdenas-Rondón, Antonio Navarro-Manso, Carlos Carbajosa, Carlos Rodríguez-Casado, Sebastián Franchini</i>
11:00-11:15	O10.3 Numerical study of buoyancy effects of flow in an urban canyon <i>Ximeng Kang, Alistair Revell, Saleh Rezaeiravesh</i>	O10.7 Interaction of VIV excitation mechanisms promoted by traffic barriers for a non-streamlined bridge section <i>Bernardo Nicese, Antonino Maria Marra, Gianni Bartoli, Claudio Mannini</i>	O10.11 Quantification of turbulence effects using non-dimensional energy contributions <i>Timothy John Acosta, Jin Wang, Gregory A. Kopp</i>	O10.15 Vertical distribution of air pollutants concentration around road-facing buildings based on field measurement and CFD simulation <i>Tingting Hu, Guoyi Jiang, Qi Wang, Mengge Zhou, Guanghui Li</i>	O10.19 Analysis of single-axis solar tracker response to vertical wind gusts in two-dimensional conditions <i>Sergio Marín-Coca, Eduardo Blanco-Marigorta, Juan A. Cárdenas-Rondón, Alejandro Martínez-Cava, Raúl Manzanares-Bercial</i>
11:15-11:30	O10.4 Large eddy simulations of complex shaped high-rise buildings <i>Alan Lugarini, Rodrigo S. Romanus, Waine Oliveira Jr</i>	O10.8 Buffeting Analysis of Line-like Structures using Gaussian Processes with Semi-analytical Priors <i>Igor Kavarakov</i>	O10.12 Designing green walls to mitigate fine particulate pollution in an idealized urban environment <i>Xingyu Qian, Xuelin Zhang, A. U. Weerasuriya</i>	O10.16 Experimental analysis of the internal pressure of naturally ventilated rooms at the centre of an urban street canyon <i>Murtaza Mohammadi, Christof Gromke, John Calautit, John Owen</i>	O10.20 Tropical Cyclone-induced Fragility Analysis of Wind Turbine using Physics-informed Data-driven Wind Field Model <i>Genshen Fang, Yue Cheng, Lin Zhao, Yaojun Ge</i>
11:30-11:45	Transition Break				
Parallel sessions 11					
	Room 1 Bridge aerodynamics <i>(Chair - Igor Kavarakov)</i>	Room 2 Computational Fluid Dynamics <i>(Chair - Anina Glumac)</i>	Room 3 Fluid Structure Interaction <i>(Chair - Shaohong Cheng)</i>	Room 4 Performance Based Wind Engineering <i>(Chair - Yasushi Uematsu)</i>	Room 5 Wind Energy System <i>(Chair - Gang HU)</i>
11:45-12:00	O11.1 Investigation of the sudden-change flow on aerodynamic forces of a railway viaduct <i>Simin Zou, Xuhui He</i>	O11.5 Investigation of three-dimensional instability behind a circular cylinder via low-dimensional space spanned by optimal proper orthogonal decomposition modes <i>Yuto Nakamura, Shintaro Sato, Naofumi Ohnishi</i>	O11.8 Experimental study on aeroelastic instability across-wind response characteristics of tall-square towers in urban flow <i>Wenshan Shan, Qingshan Yang, Kunpeng Guo, Cong Chen, Yong Chul Kim, Yukio Tamura</i>	O11.11 Experimental study on the influence of terrain complexity on wind pressure characteristics of mid-rise buildings <i>Lee-Sak An, Sungmoon Jung</i>	O11.15 Numerical simulation study on aerodynamic characterisation of wind turbine under forced vibration <i>Jiachen Ma, Yong Quan</i>
12:00-12:15	O11.2 Deep learning for high spatial resolution reconstruction of flow	O11.6 Prediction of the wind flow patterns above different building roof	O11.9 Aerodynamic characteristics of gable roof shaped buildings for different aspect ratios	O11.12 Investigation of model peak pressure coefficients and equivalent turbulence	O11.16 Study on the Shape coefficient and the effect of Reynolds number of lattice

	field around a circular cylinder <i>Xuxi Zhou, Xiaowei Jin, Shujin Laima, Hui Li</i>	shapes using machine learning techniques <i>Anina Šarkić Glumac, Onkar Jadhav, Miloš Jočković, Kristina Kostadinović Vranešević, Stephane Bordas, Bert Blocken</i>	<i>Stefano Brusco, Timothy Acosta, Yitian Guo, Jin Wang, Gregory A. Kopp</i>	profiles resulting from randomized terrain in a large boundary layer wind tunnel <i>Mariel Ojeda-Tuz, Mohit Chauhan, Ryan Catarelli, Michael D. Shields, Kurtis Gurley</i>	structure by wind tunnel test <i>Ye Junchen, Niu Huawei, Chen Zhengqing</i>
12:15-12:30	O11.3 Investigation and Vibration Control of Coupled Vortex-Induced Vibration Response in Composite Arch Bridges <i>Cao Nankui, Niu Huawei, Ye Junchen, Hou Hongtao</i>	O11.7 Wind loading of a high-rise building in real urban settings <i>Giulio Vita, Kristina Kostadinović Vranešević, Marie Skytte Thordal, Anina Šarkić Glumac</i>	O11.10 Structural response of a high-rise tower subjected to wind interference based on in-situ data analysis <i>Kemper, F., Bronkhorst, A.J., Geurts, C.P.W</i>	O11.13 Wind pressures and wind forces on a building with surrounding roughness blocks <i>Yuki Takadate, Hitomitsu Kikitsu, Yasuo Okuda</i>	O11.17 Experimental investigation on self-excited vibration and wake interference effects of flexible photovoltaic systems <i>Zhang Haicheng, Li Mingshui, Yang Yang</i>
12:30-12:45	O11.4 Roof responses of a gable-roofed steel factory building under tornado-like vortices <i>Shien Zhang, Jinxin Cao, Shuyang Cao</i>			O11.14 Performance-based design selection of buildings under uncertain wind loads <i>Anoop Kodakkal, Roland Wüchner, Kai-Uwe Bletzinger</i>	
12:45-12:50	Transition Break				
12:50-13:00	Closing Ceremony - Main Hall				
13:00-14:00	Lunch and close				

