

July 16 (Sunday)

16:00 - 21:00	Registration
19:00 - 21:00	Reception (Ice Breaker)

July 17 (Monday)

08:00 - 18:00	Registration			
09:00 - 09:20	Opening Remarks: S. Murakami and G. Solari Chaired by Y. Tamura			
09:20 - 10:40	MP	09:20 - 10:00 Invited speaker: T. Tamura (Towards practical use of LES in wind engineering) 10:00 - 10:40 Invited speaker: A. Kareem (Numerical simulation of wind effects: a probabilistic perspective) Co-chaired by Y. Tamura and T. Stathopoulos		
10:40 - 11:00	Break			
11:00 - 12:30	MA1 Wind Environment (OS) Co-chair: R. Yoshie, J. Franke	MB1 Meteorology Co-chair: H. Niino, P. Sarkar	MC1 Bridge 1 Co-chair: A.R. Chen, Y. Fujino	MD1 Building 1 Co-chair: C. M. Cheng, K. Kondo
12:30 - 13:30	Lunch			
13:30 - 15:00	MA2 Flutter wind speeds (OS) Co-chair: A. Larsen, G. Diana	MB2 Urban environment 1 Co-chair: H. Kondo, F. S. Lien	MC2 Bridge 2 Co-chair: S. Hernandez, H. Shirato	MD2 Building 2 Co-chair: J. H. Chou, H. Kawai
15:00 - 15:20	Break			
15:20 - 16:35	MA3 Sophisticated CFD (OS) Co-chair: T. Tamura, S. Cao	MB3 Ventilation 1 Co-chair: M. Ohba, T.K. Thiis	MC3 Wind energy + Topography 1 Co-chair: K. Ayotte, T. Ishihara	MD3 Building 3 Co-chair: X. Chen, M. Kasperski
16:35 - 16:55	Break			
16:55 - 18:10	MA4 Sophisticated CFD (OS) Co-chair: T. Tamura, S. Cao	MB4 Ventilation 2 Co-chair: R. Kurabuchi, R.D. Lieb	MC4 Wind energy + Topography 2 Co-chair: Y. D Kim, Y. Ohya	MD4 Building 4 Co-chair: D. Alexander, Q. Yang

July 18 (Tuesday)

08:00 - 18:00	Registration			
09:10 - 10:30	TP	09:10 - 09:50 Invited speaker: A. Mochida (Prediction of wind environment and thermal comfort at pedestrian level within urbanized area) 09:50 - 10:30 Invited speaker: K. D. Squires (Prediction of Turbulent Flows at High Reynolds Numbers using Detached-Eddy Simulation) Co-chaired by: S. Kato and B. Bienkiewicz		
10:30 - 10:50	Break			
10:50 - 12:20	TA1 Transient Wind Effects (OS) Co-chair: A. Kareem, F. Haan	TB1 Urban environment 2 Co-chair: R. N. Meroney, N. Sharma	TC1 Square/cube 1 Co-chair: W. K. Chow, A. Okajima	TD1 Building 5 Co-chair: K.C.S. Kwok, Y. Uematsu
12:20 - 13:30	Lunch			
13:30 - 15:00	TA2 Bridge flutter (OS) Co-chair: Y. Ge, L. Zhu	TB2 Urban environment 3 Co-chair: J. Franke, T. Maruyama	TC2 Square/cube 2 Co-chair: T. Nomura, K. D. Squires	TD2 Building 6 Co-chair: P. J Richards, K. Hibi
15:00 - 15:20	Break			
15:20 - 16:50	TA3 Pedestrian thermal environment (OS) Co-chair: A. Mochida, B. Lin	TB3 Transportation Co-chair: S. D. Kwon, A. Nakayama	TC3 Square/cube 3 Co-chair: Y. W. Lee, T. Mizota	TD3 Bridge 3 Co-chair: J. Naprstek, K. Kimura
16:50 - 17:10	Break			
17:10 - 18:10	TA4 Pedestrian wind environment (OS) Co-chair: A. Mochida, B. Lin	TB4 Acoustic Co-chair: S. Parameswaran, T. Yagi	TC4 ABL Co-chair: K. Hanjalic, H. Kataoka	TD4 Bridge 4 Co-chair: F. M. Fang, Y. Kubo
	Banquet			

July 19 (Wednesday)

08:00 - 15:00	Registration			
09:10 - 10:30	WP	09:10 - 09:50 Invited speaker: K. Hanjalic (Some Developments in Turbulence Modeling of Environmental Flows) 09:50 - 10:30 Invited speaker: K. Ayotte (Computational Methods for the Wind Energy Industry) Co-chaired by: G. Solari, J. Cheung		
10:30 - 10:50	Break			
10:50 - 12:20	WA1 Commercial CFD software (OS) Co-chair: T. Stathopoulos, B. Blocken	WB1 Dispersion Co-chair: K. P. Cho, A. Huber	WC1 Wind loads (OS) Co-chair: M. Gu, W. Yang	WD1 Analytical methods Co-chair: J. Kanda, R N Sharma
12:20 - 13:30	Lunch			
13:30 - 15:00	WA2 Commercial CFD software (OS) Co-chair: T. Stathopoulos, B. Blocken	WB2 Wind tunnel technique (OS) Co-chair: H. Kobayashi, N. Sekishita	WC2 Wind loads (OS) Co-chair: M. Gu, W. Yang	WD2 Rain and snow Co-chair: H. Hangan, Y. Tominaga
15:00 - 15:20	Closing Remarks: M. Matsumoto Chaired by: Y. Tamura			

MP01 Towards Practical Use of LES in Wind Engineering

T. Tamura

MP02 Numerical Simulation of Wind Effects: A Probabilistic Perspective

A. Kareem

TP01 Prediction of Wind Environment and Thermal Comfort at Pedestrian Level Within Urbanized Area

A. Mochida, Y. F. Lun

TP02 Prediction of Turbulent Flows at High Reynolds Numbers using Detached-Eddy Simulation

K. D. Squires

WP01 Some Developments in Turbulence Modeling of Environmental Flows

K. Hanjalić, S. Kenjereš

WP02 Computational Methods for the Wind Energy Industry

K. W. Ayotte

MA1 Assessment of Urban Wind Environment (Organized session)

CWE202 Development of a Wind Environment Database in Tokyo for a Comprehensive Assessment System for Heat Island Relaxation Measures

M. Oguro, Y. Morikawa, S. Murakami, K. Matsunawa, A. Mochida, H. Hayashi

CWE245 Towards Grid Resolution Guidelines for CFD Simulations of Wind Speed in Passages between Buildings

B. Blocken, T. Stathopoulos, J. Carmeliet

CWE046 Application of Richardson Extrapolation to the Prediction of the Flow Field around Building Models

J. Franke, W. Frank

CWE141 Evaluation of Turbulent Time Scale of Linear Revised K-E Models based on LES Data

T. Shirasawa, A. Mochida, Y. Tominaga, H. Yoshino

CWE235 CFD Prediction of Wind Environment around a High-Rise Building Located in an Urban Area

R. Yoshie, A. Mochida, Y. Tominaga

CWE251 CFD-Aided Wind Tunnel Investigation of Pedestrian Wind

B. Bienkiewicz, M. Endo

MA2 Computational Assessment of Flutter Wind Speeds for Bridges (Organized session)

CWE222 The Complex Branch Characteristics of Coupled Flutter

M. Matsumoto, K. Mizuno, K. Okubo, Y. Ito

CWE229 A Study on Understanding of Coupled Flutter of Long-Span Bridges

H. Yamada, H. Katsuchi, P.H. Kien

CWE230 Understanding the Underlying Physics of Multimode Coupled Bridge Flutter based on Closed-Form Solutions

X. Chen, A. Kareem

CWE232 Computation of Flutter of Long Span Cable Supported Bridges

A. Larsen

CWE243 Aerodynamic Divergence of a Super-Long Span Cable-Stayed Bridge under Very Strong Wind

A. Chen, F. Xu, R. Ma

CWE244 A New Numerical Approach to Reproduce Bridge Aerodynamic Non Linearity in Time Domain

G. Diana, F. Resta, D. Rocchi

MA3 Current Feasibility and Future Sophisticated Technique of CFD on Wind-Resistant Structural Problems (Organized session)

CWE204 AIJ Guide for Numerical Prediction of Wind Loads on Buildings

T. Tamura, K. Nozawa, K. Kondo

CWE205 LES of Surface Wind Around the Building Complex -Comparison with Field Measurement Data

T. Kishida, T. Tamura, K. Miyashita, O. Nakamura

CWE206 Microscale Analysis of Severe Winds within the Urban Canopy during a Period of Explosive Cyclogenesis by Coupling Large Eddy Simulation and Mesoscale Meteorological Models

T. Takemi, T. Tamura, Y. Takei, Y. Okuda

CWE207 Numerical Simulation of Flows around a Low-Rise Building Using Hybrid LES-RANS Model for Boundary Condition on the Ground

K. Nozawa, T. Tamura

CWE208 Numerical Simulations of a Wind-Induced Vibrating Square Cylinder within Turbulent Boundary Layer

H. Kataoka

MA4 Current Feasibility and Future Sophisticated Technique of CFD on Wind-Resistant Structural Problems (Organized session)

CWE209 Large Eddy Simulation of Fluid Flows Around Bluff Bodies in Overlaid Grid System

Y. Itoh, T. Tamura

CWE027 Large Eddy Simulation of Turbulent Flow around a Wind Break

T. Maruyama

CWE093 Numerical Modeling of Local Wind Focusing on Computational Domain Setting and Boundary Treatments

A. Yamaguchi, T. Ishihara, Y. Fujino

MB1 Meteorology

CWE016 Prediction of Typhoon Wind by Level 2.5 Closure Model

M. Yoshida, M. Yamamoto, K. Takagi, T. Ohkuma

CWE145 Introduction of a JMA-Type Typhoon Bogus Scheme into MM5 to Improve Hindcasting of Coastal Sea Surface Winds

T. Ohsawa, T. Nakano, K. Matsuura, K. Hayashi

CWE193 On the Conditions for a Dustdevil Genesis in a Large Eddy Simulation

H. Niino, M. Nakanishi, R. Tanaka

CWE217 Development of a Coupled Atmosphere-Ocean-Wave Model for Typhoon Early Warning System

J. Yoshino, T. Murakami, M. Hayashi, T. Yasuda

CWE220 Genesis Mechanism and Structure of a Supercell Tornado in a Fine-Resolution Numerical Simulation

A.T. Noda, H. Niino

CWE221 Influences of Global Warming on Tropical Cyclone Climatology as Simulated in a 20 km-Mesh Global Atmospheric Model

J. Yoshimura

MB2 Urban Environment 1

CWE037: Modeling Wind Flow and Turbulence in Oklahoma City

F. S. Lien, E. Yee, H. Ji

CWE072 Mesoscale Circulation Induced By the Coupled Effects of Urban Heat Island and Land-Sea Contrast and Its Response to Land Use Change

T. Takemi, T. Arimitsu, M. Tamai

CWE076 A New Method to Select Appropriate Countermeasures against Heat-Island Effects According to the Regional Characteristics of Heat Balance Mechanism

K. Sasaki, A. Mochida, T. Yoshida, H. Yoshino, H. Watanabe

CWE078 Stabilized Finite Element Method for Thermal Environmental Flow in Urban Area

S. Itabashi, M. Kishi, K. Kashiyama, M. Shimura

CWE115 Analysis of Regional Characteristics of the Atmospheric Heat Balance in the Tokyo Metropolitan Area in summer

T. Sato, S. Murakami, R. Ooka, S. Yoshida

CWE236 The Wind Calculation in Tokyo Urban Area with a Mesoscale Model

H. Kondo, T. Tokairin, Y. Kikegawa

MB3 Ventilation 1

CWE100 Dust Carried by Hot Air and the Influence of Wind Fluctuation

S. Ogaki, T. Iwasaki

CWE112 Simulation of Natural Ventilation and Wind Effects in a Semi Open Railway Station

N.P. Waterson, J. Viot

CWE160 Wind-Induced Ventilation Analysis Using Detached-Eddy Simulations to Control Indoor Thermal Environments

T. Hasama, S. Kato, R. Ooka

CWE161 Analysis of Wind-Induced Inflow and Outflow through a Single Opening Using Large-Eddy Simulations

S. Kato, T. Hasama, R. Ooka

CWE191 CFD Modelling of Cross Ventilation Using Unsteady Methods

C.H. Hu, M. Ohba, R. Yoshie

MB4 Ventilation 2

- CWE008 Analysis of Ventilation Efficiency Indices Inside a Local Domain within an Urban Area Using Two Building Model
M. Bady, S. Kato, H. Huang
- CWE081 Full-Scale Measurements and Numerical Simulation of Cross-Flow Ventilation of Farm Buildings in a Cold, Windy Coast Climate
T. K. Thiis, W.K. Jeksrud, A.S. Flo
- CWE045 Experimental Study of Airflow in Naturally Ventilated Double Skin Facade
Y. Yuan, X. Li, Y. Zhu, X. Chen
- CWE228 Aerodynamic Effects of Different Ventilation Methods on Buses
M. Thomas, R.N. Sharma, M. Kilduff
- CWE095 Comparison between Different Methods for Urban Ventilation Study: The Case of The City of Belo Horizonte, Brazil
D.G. Ferreira, E.S.D. Assis

MC1 Bridge 1

- CWE087 An Estimation of Aerodynamics of Slotted One-Box Girder Section Using Computational Fluid Dynamics
K. Fumoto, S. Watanabe
- CWE091 Prediction of Aerodynamic Characteristics of Cable Stayed Bridge Girder Using LES Turbulence Model
M.W. Sarwar, T. Ishihara, K. Shimada, Y. Yamasaki, T. Ikeda
- CWE102 Computation of Aerodynamic Derivatives by Various CFD Techniques
A. Larsen
- CWE154 CFD Aided Study on the Mechanism of Rain-Wind Induce Vibration of Stay-Cables of Cable-Stayed Bridge
M. Matsumoto, T. Yagi, Q. Liu, K. Hori
- CWE132 Numerical Simulation of Aerodynamic Force Characteristic of Super Long Stayed Cables
A. Chen, S. Yang, D. Wang, Z. Zhou
- CWE047 An Application of Virtual Wind Tunnel Techniques to the Proposed Messina Bridge
S. Hernandez, J.A. Jurado, A. Baldomir and F. Bravo

MC2 Bridge 2

- CWE177 Detached Eddy Simulation of Flow around a Box Girder Bridge Section
A. Maruoka, M. Takou, H. Sasaki
- CWE103 Numerical Simulations of Flow Around Stay Cables with and without Fixed Artificial Rivulets
S.Y. Li, M. Gu
- CWE020 Numerical Model of Nonlinear Wind-Structure Interaction
R. Kral, S. Pospisil, J. Naprstek
- CWE032 A Numerical Wind Buffeting Analysis of Horizontally Curved Bridges under Three-Dimensional Wind Loading
U.Y. Jeong, J. P. C. King
- CWE059 Fluctuating Wind Velocity and Pressure Characteristics of the Flow in The Wake of a Conical Hill Causing Large Horizontal Response of a Bridge Model
K. Kimura, E. Harada, K. Takakura, Y. Kubo, K. Kato
- CWE060 Flas-B: Software for the Hybrid Analysis of Flutter and Buffeting Phenomena
J. A. Jurado, A. León, F. Nieto, S. Hernandez

MC3 Wind Energy And Topography 1

- CWE224 Numerical and Experimental Studies of Airfoils Suitable for Vertical Axis Wind Turbines and an Application of Wind-Energy Collecting Structure for Higher Performance
S. Takahashi, Y. Ohya, T. Karasudani, K. Watanabe
- CWE042 Micro-Siting Technique for Wind Turbine Generator by Using Large-Eddy Simulation
T. Uchida, Y. Ohya
- CWE052 Numerical Studies of Flows around a Wind Turbine Equipped with a Flanged Diffuser Shroud by Using an Actuator-Disc Model
M. Hasegawa, Y. Ohya, H. Kume
- CWE079 A Study on Aerodynamic Analysis and Design of Wind Turbine Blade
J.H. Kim, T.S. Kim, Y.W. Lee, Y.D. Kim

CWE096 Analysis of Response of Wind Turbine under Wind Load
L.V. Binh, P. V. Phuc, T. Ishihara, Y. Fujino

MC4 Wind Energy And Topography 2

- CWE097 A Physical Approach to Wind Speed Prediction for Wind Energy Forecasting
S. A. Deen, A. Yamaguchi, T. Ishihara
- CWE094 A Dynamical Statistical Downscaling Procedure for Wind Climate Assessment and Its Verification
T. Ishihara, A. Yamaguchi, Y. Fujino
- CWE049 Large-Eddy Simulation of Unsteady Wind Velocity Fields over a Hill with Immersed Boundary Method
Y. Hattori, S. Ishihara, N. Tanaka
- CWE057 Structural Damage Caused by Local Winds Associated with Typhoon Tokage (0423) Passing
E. Tomokiyo, M. Kitamura, T. Uchida, J. Maeda, Y. Ohya
- CWE172 A Comparison between Computational Fluid Dynamics (CFD) Analysis and Wind Tunnel Observations on Flow above a Complex Terrain
D.K.K. Hui, K.C.S. Kwok, P. A. Hitchcock, C.H. Fok

MD1 Buildings 1

- CWE053 Validation of CFD Simulations on the Wind Loads for Tall Buildings' Preliminary Design
C. L. Fu, S. M. Lee, C. M. Cheng
- CWE065 Les Analysis of Unsteady Characteristics of Conical Vortex on a Flat Roof
Y. Ono, T. Tamura, H. Kataoka
- CWE107 Separated Shear Layers in Non-Stationary Gusts - Discrete Vortex Simulation and Wind Tunnel Experiments
N. Murgai, J. Oltrogge, F. L. Haan Jr.
- CWE216 Numerical Simulation of a Hybrid RANS/Les Model to Flow past a High-Rise Building
J. Chung, B. Bienkiewicz
- CWE213 Can Steady RANS Models Reflect the Influence of Low-Frequency 2D Turbulence
P.J. Richards, S.E. Norris
- CWE248 Numerical Studies on the Behaviors of Wind-Structure Interaction for One-Way Type Roofs
Y. Wu, S. Shen

MD2 Buildings 2

- CWE028 A Method of Finite Element Mesh Generation for Wind Simulation in Cities
D. Ono, H. Hasebe, T. Nomura
- CWE099 Comparison of Numerical and Experimental Simulations Used to Investigate the Wind-Structure Interaction of a Skyscraper
E. Colombo, A. Grassano, F. Perotti
- CWE116 Large Eddy Simulation of Flow past a Basic Trussed Structure
A. Nakayama, D. Okamoto, K. Hori
- CWE188 Dynamic Torsional Response of a Tall Building Due To Wind Action Using CFD Approach
C.K. Nguyen, T. D. Ngo, P. A. Mendis, J.C.K. Cheung
- CWE189 The Numerical Simulation on the Effect of Wind Reduction by the Windbreak Net with Different Slanting Angles
L.M. Huang, C.H. Wu
- CWE196 Numerical Simulation of Behaviors of Air-Inflated Cushion under Wind Excitation based on Fluid-Structure Interaction
Q. Yang, W. Zhu

MD3 Building 3

- CWE152 Development of a Hybrid Vibration Experiment System for Determining Wind-Induced Responses of Buildings with Tuned Dampers
M. Matsui, Y. Tamura
- CWE163 Performance Assessment of Tuned Mass Damper for Wind-Induced Vibration Mitigation of Tall Building with Soil-Structure Interaction
M.Y. Liu, W.L. Chiang, J.H. Hwang, C.R. Chu
- CWE164 The Distribution of Pressure near The Corners of Flat Canopy Attached to the Gable Roof Buildings
R. Goyal, A.K. Ahuja

CWE187 Evaluation on Interacting Mechanism between Vibrating Three-Dimensional Prism and Fluctuating Wake Field

H. Kikitsu, Y. Okuda, M. Ohashi, J. Kanda

CWE151 Experimental Study on Flow and Pressure Fields over the Roof of a Cube by PIV Measurements

S. Ito, Y. Okuda, H. Kikitsu, M. Ohashi, T. Taniguchi, Y. Taniike

MD4 Building 4

CWE005 Interaction Envelopes for Limit State Design of Chimneys

K. S. B. Narayan, S. C. Yaragal, Y. Tamura

CWE253 Wind Load Simulation for High Speed Train Stations

N. Hur, S.R. Kim, C.S. Won, C.K. Choi

CWE254 The Aerodynamic Characteristic of the Transformable Airfoil

Jong-Ho Ha, Chang-Koon Choi

CWE255 Speed up Effects over 3-D Complex Hills with Transmission Towers Collapsed During Typhoon Passage

K.P. Cho, S. Hong

CWE110 Numerical Simulation of Unsteady 3-D Flow around a Yawed and Inclined Circular Cylinder

D.H. Yeo, N. P. Jones

TA1 Simulation of Transient Wind Effects (Organized session)

CWE147 Gust Occurrence in Simulated Non-Stationary Winds

M.T. Chay, R. Wilson, F. Albermani

CWE168 Effects of Topography on the Surface Wind of an Isolated Wet Microburst

K. Otsuka

CWE178 Transient Loads on Buildings in Microburst and Tornado Winds

A. Sengupta, F.L. Haan, P.P. Sarkar and V. Balaramudu

CWE179 Vector Time-Varying Autoregressive (TVAR) Modeling Nonstationary Downburst Wind Speeds

L.Chen, C.W. Letchford

CWE180 Description and Simulation of Gust Front Wind Field

L. Wang, A. Kareem

CWE181 Numerical Simulation of Tornado Vortices

H. Hangan, J.D. Kim

TA2 Computational Aerodynamics for Bridge Flutter (Organized session)

CWE121 Retrospect and Prospect on Computational Methods for Aerodynamic Bridge Flutter

Y.J. Ge, H.F. Xiang

CWE009 Mechanism of Flutter Control of Suspension Bridge by Winglets

G. Liu, F. Meng, X.F. Wang

CWE119 A Blob Resizing Procedure for Diffusion in Vortex Methods

F.C. Cao, Y.J. Ge

CWE120 Skew Wind Effect on 2-D of Coupled Flutter of a Flat-Box Deck

L.D. Zhu, G.Z. Chang, C. Li

CWE122 Flutter Mechanism and Flutter Modality Investigation for Thin Plate Sections

Y.X. Yang, Y.J. Ge, H.F. Xiang

CWE124 On the Mechanism of Torsional Flutter Instability for 1st Tacoma Narrow Bridge by Discrete Vortex Method

Z. Zhou, A. Chen, H.F. Xiang

TA3 Assessment and Design of Pedestrian Thermal Environment (Organized session)

CWE018 Numerical Study of the Evaluation Indexes for Outdoor Pedestrian Thermal Comfort

B. Lin, Y. Zhu, X. Li, and Y. Qin

CWE225 Study on Evaluation of Outdoor Thermal Environment Based on CFD Analysis Incorporating Multi-Fractional Human Thermoregulation Model

S. Yoshida

CWE165 Numerical and Experimental Study on Convective Heat Transfer of a Human Body in Outdoor

T. Ono, S. Murakami, R. Ooka, T. Takahashi, T. Omori, T. Saotome

CWE019 Numerical Simulation Studies of the Different Vegetation Patterns' Effects on Outdoor Pedestrian Thermal

Comfort

B. Lin, Y. Zhu, X. Li, Y. Qin

- CWE073 Study on Optimum Arrangement of Trees for Design of Pleasant Outdoor Environment Using Multi-Objective Genetic Algorithm and Coupled Simulation of Convection, Radiation and Conduction
R. Ooka, H. Chen, S. Kato

TA4 CFD Guideline for Pedestrian Wind Environment (Organized session)

- CWE190 Recommendations of the Cost Action C14 on the Use of CFD in Predicting Pedestrian Wind Environment
J. Franke
- CWE234 AIJ Guideline for Practical Applications of CFD to Wind Environment around Buildings
A. Mochida, Y. Tominaga, R. Yoshie

TB1 Urban Environment 2

- CWE015 Wind Climate in Cities: Air Circulation and Pollutant Dispersion
A. Kurbatskiy, Lonchakov A. V., Kurbatskaya L. I.
- CWE142 Development of Prediction and Evaluation System of Heat and Wind Environment in Urban Areas and Blocks
K. Takagi, T. Yamanaka, K. Kondo
- CWE092 Synthesized Analyses of Meso-Micro and Indoor Climates - Evaluation on The Spatial Distribution of Wind Potential Inside a City for Reducing the Cooling Load of Residential Buildings by Means of Cross-Ventilation
K. Takahashi, A. Mochida, H. Yoshino, T. Mitamura, S. Miyauchi, T. Yoshida
- CWE233 Uncertainty in Measurements of Velocity and Concentration around a Building
H. Tanaka, R. Yoshie, C.H. Hu
- CWE150 Development of the Simulation Method for Thermal Environment and Pollutant Diffusion in Street Canyons with Sub-Grid Scale Obstacles
N. Hataya, A. Mochida, T. Iwata, Y. Tabata, H. Yoshino, Y. Tominaga
- CWE183 A Comprehensive Assessment of Pedestrian Wind Environment Including Thermal Effects based on Year-Long Analysis Using CFD and Meteorological Data
Y. Tominaga, T. Murata, Y. Aoki

TB2 Urban Environment 3

- CWE090 Optimization of Tree Canopy Model for CFD Prediction of Wind Environment at Pedestrian Level
A. Mochida, H. Yoshino, T. Iwata, Y. Tabata
- CWE250 The Numerical Simulation for Air Distribution of an Underground Main Workshop in Hydropower Station
R. Wan, J. Liu, Z. Wang
- CWE077 CFD Simulation of Concentration and Flow Distribution by Different Arrangements of Building Height in Urban Street Canyon
C.H. Chang, J. S. Lin, C.M. Cheng, Y.Y. Lin
- CWE084 LES of Flow Over Urban-Like Roughness Blocks
T. Nozu, T. Tamura, Y. Okuda, S. Sanada
- CWE086 Numerical Investigation on the Wind Environment around a Sports Center
H. Jin, W. Yang, X. Jin, D. Chen
- CWE004 Virtual Versus Physical: Examining the Capabilities of CWE/CFD Simulations through Comparisons to Wind Tunnel Observations
T. Scott, D. Banks

TB3 Transportation

- CWE039 Movement of Smoke in Tunnels: A Comparison of Theory and Practice
A.P. Jeary, D. Alexander
- CWE031 Exploring the Flow around a Generic High-Speed Train under the Influence of Side Winds Using LES
H. Hemida, S. Krajnovic
- CWE083 Numerical Study of Wakes on a Simple Car Model
E. Guilmineau
- CWE113 Transient Numerical Simulation of The Flow Field around a Pickup Truck
D. Lee, S. Parameswaran
- CWE029 Smoke Management in Underground Transportation Facilities in The Event of a Fire - Commissioning Tests at Reduced Heat Output and CFD-Calculation for The Design Heat Output

H.J. Gerhardt, B. Konrath, R.D. Lieb, M. Schwarz

CWE218 CFD Modeling of High-Sided Vehicles in Cross-Winds
D.M. Hargreaves, H.P. Morvan, N.G. Wright

TB4 Acoustic

- CWE014 Finite Element Simulation of Sound Propagation Concerning Wind Conditions
T. Nomura, K. Takagi, H. Kanai
- CWE043 Numerical Analysis of Aerodynamic Sound Radiated from Rectangular Cylinders with Various Side Ratios
A. Rokugou, A. Okajima, S. Kimura, T. Kiwata, H. Yamamoto
- CWE158 Numerical Simulation of Aero-Acoustic Noise for Buildings
H. Hangan, J.D. Kim

TC1 Square/Cube 1

- CWE011 Flow over Bluff Bodies Using LES
M. Farhadi, K. Sedighi
- CWE127 Flow around a Cube Placed in a Simulated Turbulent Boundary Layer
H.C.Lim, T. G. Thomas, I.P. Castro
- CWE144 Wall Function at the Upwind Sharp Convex Corners in Simulating Incident Air Flow on a Cube
Y. Gao, W.K. Chow
- CWE034 On the Nodal Velocity Direction at Body Corners in 2D Turbulence Simulations Using the Wall Function
H. Hasebe, T. Nomura
- CWE080 Numerical Analysis of Karman Vortex Street in the Wake of the Jeju Island
J.H. Kwon, Y.H. Choi, Y.W. Lee, Y.D. Kim
- CWE130 Turbulent Heat Transfer in a Channel with a Built-In Square Cylinder
S.M. Hashemian, M. Rahnama, M. Farhadi

TC2 Square/Cube 2

- CWE143 Numerical Investigation of the Influence of Aspect Ratio on Flows around Bluff Bodies
D. Yu, A. Kareem, K. Butler, J. Glimm, J. Sun
- CWE171 Characteristics of Vortices Shed from a Circular Cylinder and an Inclined Flat Plate
K. M. Lam, C. T. Wei
- CWE017 A Numerical Study of Aerodynamic Forces on a Square Cylinder in Oscillating Flows
Y.C.Li, C.C. Chen, F.M. Fang, T.C. Liang
- CWE075 A Numerical Study of Moving Ground Effect to the Vortex Shedding around a Square Cylinder
Y.C. Ku, T.Y. Kim, J.H. Rho, K.H. Kim, D.H. Lee
- CWE082 An Experimental Study for Flow Characteristics of A Square Cylinder with Moving Ground System
T.Y. Kim, J.H. Rho, Y.C. Ku, J.Y. Kim, Y.P. Kohama, D.H. Lee
- CWE226 A Circular Cylinder in Uniform, Steady Jet and Synthetic Jet Flows
S. K Siong, R. N Sharma

TC3 Square/Cube 3

- CWE199 Wake Instability and Dipole Formation in Stratified Fluids
S. A. Smirnov, S. I. Voropayev, H.J.S. Fernando, D.S. Iv
- CWE085 Wind Tunnel Study of Column-Type Circular Cylinder Propulsion Assistance System (C-Pas) for Ships
T. Shiii, H. Yagi, A. Fujii
- CWE136 Flow-Structure Interaction of the Oscillating Circular Cylinder in the Lock-In Region: Computational Versus Experimental Approach Comparison
G. Diana, A. Zasso, L. Vigevano, F. Auteri, L. Formaggia, F. Nobile
- CWE108 Comparisons of CFD and PIV data for the Flow around a Rectangular Cylinder
Z. J. Taylor, E. Palombi, G. A. Kopp, W. J. Holmes
- CWE169 Control of Vortex Oscillation of a Rectangular Cylinder by Periodic Suction and Blowing at the Leading Edges
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<i>R.N. Merony</i>	<i>CWE106(WA1)</i>
<i>T. Mitamura</i>	<i>CWE092(TB1)</i>
<i>S. Miyauchi</i>	<i>CWE092(TB1)</i>
<i>K. Miyashita</i>	<i>CWE205(MA3)</i>
<i>K. Mizuno</i>	<i>CWE222(MA2)</i>
<i>A. Mochida</i>	<i>CWE202(MA1), CWE234(TA4), CWE235(MA1), CWE076(MB2), CWE150(TB1)</i> <i>CWE141(MA1),CWE090(TB2),CWE092(TB1), CWE111(WD2), TP01</i>
<i>P. Moonen</i>	<i>CWE117(WA2)</i>
<i>Y. Morikawa</i>	<i>CWE202(MA1)</i>
<i>H.P. Morvan</i>	<i>CWE218(TB3)</i>
<i>S. Murakami</i>	<i>CWE202(MA1), CWE115(MB2), CWE165(TA3)</i>
<i>T. Murakami</i>	<i>CWE217(MB1)</i>
<i>T. Murata</i>	<i>CWE183(TB1)</i>
<i>N. Murgai</i>	<i>CWE107(MD1)</i>

N

<i>F. Nagao</i>	<i>CWE197(WB2)</i>
<i>O. Nakamura</i>	<i>CWE205(MA3)</i>
<i>M. Nakanishi</i>	<i>CWE193(MB1)</i>
<i>T. Nakano</i>	<i>CWE145(MB1)</i>
<i>A. Nakayama</i>	<i>CWE116(MD2)</i>
<i>W. Nanami</i>	<i>CWE051(TD1)</i>
<i>J. Naprstek</i>	<i>CWE020(MC2)</i>
<i>K. S. B. Narayan</i>	<i>CWE005(MD4)</i>
<i>R. Neftali</i>	<i>CWE129(TD1)</i>
<i>F. Nieto</i>	<i>CWE055(TD3), CWE060(MC2)</i>
<i>H. Niino</i>	<i>CWE193(MB1), CWE220(MB1)</i>
<i>T. Ngo</i>	<i>CWE176(TD2)</i>
<i>T. D. Ngo</i>	<i>CWE188(MD2)</i>
<i>C.K. Nguyen</i>	<i>CWE188(MD2)</i>
<i>F. Nobile</i>	<i>CWE136(TC3)</i>
<i>A.T. Noda</i>	<i>CWE220(MB1)</i>
<i>M. Noda</i>	<i>CWE197(WB2)</i>
<i>T. Nomura</i>	<i>CWE028(MD2),CWE014(TB4), CWE034(TC1)</i>
<i>S.E. Norris</i>	<i>CWE213(MD1)</i>
<i>K. Nozawa</i>	<i>CWE204(MA3), CWE207(MA3)</i>
<i>T. Nozu</i>	<i>CWE084(TB2)</i>

O

<i>S. Ogaki</i>	<i>CWE100(MB3)</i>
<i>M. Oguro</i>	<i>CWE202(MA1)</i>
<i>M. Ohashi</i>	<i>CWE040(TC4), CWE187(MD3), CWE151(MD3)</i>
<i>M. Ohba</i>	<i>CWE191(MB3)</i>
<i>T. Ohkuma</i>	<i>CWE016(MB1),CWE041(WD1)</i>
<i>T. Ohsawa</i>	<i>CWE145(MB1)</i>
<i>Y. Ohya</i>	<i>CWE203(TC4), CWE224(MC3), CWE042(MC3), CWE052(MC3), CWE057(MC4)</i>
<i>R. Okada</i>	<i>CWE048(TD1)</i>
<i>A. Okajima</i>	<i>CWE089(WB1)</i>
<i>D. Okamoto</i>	<i>CWE116(MD2)</i>
<i>T. Okaze</i>	<i>CWE111(WD2)</i>

K. Okubo *CWE222(MA2)*
Y. Okuda *CWE206(MA3), CWE187(MD3), CWE151(MD3), CWE084(TB2)*
A. Okujima *CWE043(TB4)*
J. Oltrogge *CWE107(MD1)*
T. Omori *CWE165(TA3)*
D. Ono *CWE028(MD2)*
T. Ono *CWE165(TA3)*
Y. Ono *CWE065(MD1)*
R. Ooka *CWE115(MB2), CWE160(MB3), CWE161(MB3), CWE165(TA3), CWE073(TA3)*
CWE162(WB1)
K. Otsuka *CWE168(TA1))*

P

E. Palombi *CWE108(TC3), CWE109(TD3)*
S. Parameswaran *CWE113(TB3)*
K.M. Parammasivan *CWE022(TD2)*
M. Pedro *CWE129(TD1)*
F. Perotti *CWE099(MD2)*
P. V. Phuc *CWE096(MC3)*
M. Pond *CWE212(TD2)*
S. Pospisil *CWE020(MC2)*

Q

Y. Qin *CWE018(TA3), CWE019(TA3)*
Y. Quan *CWE025(WC1), CWE252(WC2)*

R

M. Rahnama *CWE130(TC1)*
F. Resta *CWE244(MA2)*
J.H. Rho *CWE075(TC2), CWE082(TC2)*
P.J. Richards *CWE213(MD1), CWE212(TD2)*
D. Rocchi *CWE244(MA2)*
S. Roels *CWE156(WD2)*
A. Rokugou *CWE043(TB4)*

S

P. Saathoff *CWE074(WA1)*
S. Sanada *CWE084(TB2)*
C.H. Sanders *CWE023(WD2)*
T. Saotome *CWE165(TA3)*
P.P. Sarkar *CWE178(TA1))*
M.W. Sarwar *CWE091(MC1)*
E. Sasaki *CWE215(TD4)*
H. Sasaki *CWE177(MC2), CWE186(WB1)*
K. Sasaki *CWE076(MB2)*
T. Sato *CWE115(MB2)*
M. Schwarz *CWE029(TB3)*
W. Schwarz *CWE214(WA2)*
T. Scott *CWE004(TB2)*
K. Sedighi *CWE011(TC1)*
N. Seino *CWE186(WB1)*
N. Sekishita *CWE185(WB2)*
A. Sengupta *CWE178(TA1))*
N. Sharma *CWE030(WB1)*
R.N. Sharma *CWE228(MB4), CWE226(TC2)*
G. Shen *CWE024(WC1), CWE071(WC1)*

S. Shen CWE248(MD1)
D. Shida CWE111(WD2)
T. Shiii CWE085(TC3)
K. Shimada CWE091(MC1)
M. Shimura CWE078(MB2)
S.K. Siong CWE226(TC2)
T. Shirasawa CWE141(MA1)
D.A. Smith CWE201(WD1)
S.A. Smirnov CWE199(TC3)
R. Spencer CWE214(WA2)
K. D. Squires TP02
T. Stathopoulos CWE245(MA1), CWE074(WA1), CWE002(WA2)
B. Sun CWE071(WC1)
B.N. Sun CWE024(WC1)
J. Sun CWE143(TC2)
B. Sung CWE088(WB2)

T

Y. Tabata CWE090(TB2), CWE150(TB1)
K. Takagi CWE016(MB1), CWE142(TB1), CWE014(TB4)
K. Takahashi CWE092(TB1)
S. Takahashi CWE224(MC3)
T. Takahashi CWE165(TA3), CWE162(WB1)
K. Takakura CWE059(MC2)
I. Takayabu CWE186(WB1)
Y. Takei CWE206(MA3)
T. Takemi CWE072(MB2), CWE206(MA3)
M. Takou CWE177(MC2)
M. Tamai CWE072(MB2)
T. Tamura CWE204(MA3), CWE205(MA3), CWE206(MA3), CWE207(MA3), CWE209(MA4),
 CWE065(MD1), CWE084(TB2), MP01
Y. Tamura CWE005(MD4), CWE152(MD3), CWE153(TC3), CWE025(WC1), CWE098(WD1)
H. Tanaka CWE233(TB1)
N. Tanaka CWE049(MC4)
R. Tanaka CWE193(MB1)
W. Tang CWE214(WA2)
T. Taniguchi CWE151(MD3)
Y. Taniike CWE151(MD3)
Z.J. Taylor CWE108(TC3)
T. K. Thiis CWE081(MB4)
M. Thomas CWE228(MB4)
T.G. Thomas CWE127(TC1)
T. Tokairin CWE236(MB2)
Y. Tominaga CWE234(TA4), CWE235(MA1), CWE150(TB1), CWE183(TB1), CWE141(MA1),
 CWE111(WD2)
E. Tomokiyo CWE057(MC4)
T.A. Tran CWE169(TC3)
F. Tremblay CWE237(WA1)
R. Tsuruishi CWE159(TD1)
T. Tubota CWE173(WD1)

U

T. Uchida CWE042(MC3), CWE057(MC4), CWE203(TC4)
H. Ueda CWE182(TC4)
Y. Uematsu CWE159(TD1)
Y. Utanohara CWE089(WB1)
H. Utsunomiya CWE197(WB2)

V

L. Vigevano CWE136(TC3)
J. Viot CWE112(MB3)
S.I. Voropayev CWE199(TC3)

W

W.F. Waechter CWE104(WD2)
R. Wan CWE250(TB2)
C. Wang CWE237(WA1)
D. Wang CWE054(TD3), CWE132(MC1)
G. Wang CWE237(WA1)
L. Wang CWE180(TA1), CWE098(WD1)
X. Wang CWE074(WA1), CWE009(TA2)
Y.J. Wang CWE070(WC1)
Z. Wang CWE250(TB2)
H. Watanabe CWE076(MB2)
K. Watanabe CWE224(MC3)
T. Watanabe CWE162(WB1)
S. Watanabe CWE087(MC1)
N.P. Waterson CWE112(MB3)
C.T. Wei CWE171(TC2)
C.J. Williams CWE104(WD2)
N. Williams CWE212(TD2)
R. Wilson CWE147(TA1)
C.S. Won CWE253(MD4)
N.G. Wright CWE218(TB3), CWE240(WA1)
Y. Wu CWE248(MD1)
C.H. Wu CWE189(MD2)
J.C. Wu CWE211(TD4)

X

H.F. Xiang CWE121(TA2), CWE124(TA2), CWE010(TD3), CWE122(TA2)
F. Xu CWE243(MA2)

Y

H.Yagi CWE085(TC3)
T. Yagi CWE154(MC1), CWE173(WD1)
H. Yamada CWE215(TD4), CWE229(MA2)
A. Yamaguchi CWE093(MA4), CWE097(MC4), CWE094(MC4)
H. Yamamoto CWE043(TB4)
M. Yamamoto CWE016(MB1)
A. Yamamoto CWE186(WB1)
T. Yamanaka CWE142(TB1)
Y. Yamasaki CWE091(MC1)
Q. Yang CWE196(MD2)
S. Yang CWE132(MC1)
W. Yang CWE086(TB2), CWE025(WC1), CWE252(WC2)
Y.X. Yang CWE122(TA2)
S. C. Yaragal CWE005(MD4)
T. Yasuda CWE217(MB1)
H. Yasui CWE041(WD1)
E. Yee CWE037(MB2)
E. Yee CWE038(WB1)
S.W. Yeh CWE133(TD1)
D. Yeo CWE110(MD4)
H.Y. Yeom CWE088(WB2)
H. Yin CWE054(TD3)

K. Yoshida
M. Yoshida
S. Yoshida
T. Yoshida
R. Yoshie
J. Yoshimura
H. Yoshino

J. Yoshino
D. Yu
Y. Yuan

CWE026(TD2)
CWE016(MB1)
CWE115(MB2), CWE225(TA3)
CWE076(MB2), CWE092(TB1)
CWE234(TA4), CWE235(MA1), CWE191(MB3), CWE233(TB1)
CWE221(MB1)
CWE076(MB2), CWE150(TB1))
CWE141(MA1), CWE090(TB2), CWE092(TB1), CWE111(WD2)
CWE217(MB1)
CWE143(TC2)
CWE045(MB4)

Z

A. Zasso
S.K. Zen
A. Zhang
J.G. Zhao
X.Y. Zhou
Y. Zhou
Z. Zhou
L. Zhu
L.D. Zhu
W. Zhu
Y. Zhu

CWE136(TC3)
CWE133(TD1)
CWE068(WC1)
CWE170(WA2)
CWE069(WC1)
CWE139(WC2)
CWE054(TD3), CWE132(MC1), CWE124(TA2)
CWE010(TD3)
CWE120(TA2)
CWE196(MD2)
CWE018(TA3), CWE019(TA3)