

# Computational Fluid Dynamics for urban physics: Important limitations and ten tips and tricks towards accurate and

Building and Environment

91, 219-245

DOI: [10.1016/j.buildenv.2015.02.015](https://doi.org/10.1016/j.buildenv.2015.02.015)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Application of computational fluid dynamics for the optimization of homogenization processes in wine tanks. <i>BIO Web of Conferences</i> , 2015, 5, 02014.	0.1	2
2	Revisiting the "Venturi effect"™ in passage ventilation between two non-parallel buildings. <i>Building and Environment</i> , 2015, 94, 714-722.	3.0	39
4	Near-field pollutant dispersion in an actual urban area: Analysis of the mass transport mechanism by high-resolution Large Eddy Simulations. <i>Computers and Fluids</i> , 2015, 114, 151-162.	1.3	52
5	A simplified benchmark of ultrafine particle dispersion in idealized urban street canyons: A wind tunnel study. <i>Building and Environment</i> , 2015, 93, 186-198.	3.0	28
6	A following car influences cyclist drag: CFD simulations and wind tunnel measurements. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 145, 178-186.	1.7	60
7	Impact of eaves on cross-ventilation of a generic isolated leeward sawtooth roof building: Windward eaves, leeward eaves and eaves inclination. <i>Building and Environment</i> , 2015, 92, 578-590.	3.0	45
8	CFD simulation of outdoor ventilation of generic urban configurations with different urban densities and equal and unequal street widths. <i>Building and Environment</i> , 2015, 92, 152-166.	3.0	257
9	Large eddy simulation of flow around an inclined finite square cylinder. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 146, 172-184.	1.7	63
10	CFD analysis of forced convective heat transfer coefficients at windward building facades: Influence of building geometry. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 146, 102-116.	1.7	66
11	Observational techniques to assist the coupling of CWE/CFD models and meso-scale meteorological models. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 144, 24-30.	1.7	11
12	Impact of roof geometry of an isolated leeward sawtooth roof building on cross-ventilation: Straight, concave, hybrid or convex?. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 145, 102-114.	1.7	42
13	CFD simulation of wind flow over natural complex terrain: Case study with validation by field measurements for Ria de Ferrol, Galicia, Spain. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 147, 43-57.	1.7	112
14	Reduction of outdoor particulate matter concentrations by local removal in semi-enclosed parking garages: A preliminary case study for Eindhoven city center. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 159, 80-98.	1.7	63
15	On the influence of viaduct and ground heating on pollutant dispersion in 2D street canyons and toward single-sided ventilated buildings. <i>Atmospheric Pollution Research</i> , 2016, 7, 817-832.	1.8	50
16	Aerodynamic benefit for a cyclist by a following motorcycle. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 155, 1-10.	1.7	50
17	Pedestrian level wind environment assessment around group of high-rise cross-shaped buildings: Effect of building shape, separation and orientation. <i>Building and Environment</i> , 2016, 101, 45-63.	3.0	93
18	Embedded large eddy simulation approach for pollutant dispersion around a model building in atmospheric boundary layer. <i>Environmental Fluid Mechanics</i> , 2016, 16, 575-601.	0.7	16
19	Ten questions about natural ventilation of non-domestic buildings. <i>Building and Environment</i> , 2016, 107, 263-273.	3.0	87

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20	Performance analysis of an air quality CFD model in complex environments: Numerical simulation and experimental validation with EMU observations. <i>Building and Environment</i> , 2016, 108, 30-46.	3.0	6
21	Defining the Influence Region in neighborhood-scale CFD simulations for natural ventilation design. <i>Applied Energy</i> , 2016, 182, 625-633.	5.1	120
22	Validation and optimization of SST $k-\epsilon$ turbulence model for pollutant dispersion within a building array. <i>Atmospheric Environment</i> , 2016, 145, 225-238.	1.9	71
24	Wind tunnel analysis of flow and dispersion in cross-ventilated isolated buildings: Impact of opening positions. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 155, 74-88.	1.7	85
25	Pedestrian-level wind conditions around buildings: Review of wind-tunnel and CFD techniques and their accuracy for wind comfort assessment. <i>Building and Environment</i> , 2016, 100, 50-81.	3.0	279
26	Quantifying the impact of traffic-related air pollution on the indoor air quality of a naturally ventilated building. <i>Environment International</i> , 2016, 89-90, 138-146.	4.8	167
27	Ventilation Processes in a Three-Dimensional Street Canyon. <i>Boundary-Layer Meteorology</i> , 2016, 159, 259-284.	1.2	38
28	CFD simulation of the wind environment around an isolated high-rise building: An evaluation of SRANS, LES and DES models. <i>Building and Environment</i> , 2016, 96, 91-106.	3.0	169
30	CFD simulation of wind-driven upward cross ventilation and its enhancement in long buildings: Impact of single-span versus double-span leeward sawtooth roof and opening ratio. <i>Building and Environment</i> , 2016, 96, 142-156.	3.0	46
31	CFD simulation of stratified indoor environment in displacement ventilation: Validation and sensitivity analysis. <i>Building and Environment</i> , 2016, 95, 299-313.	3.0	144
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38	CFD simulation of a vertical axis wind turbine operating at a moderate tip speed ratio: Guidelines for minimum domain size and azimuthal increment. <i>Renewable Energy</i> , 2017, 107, 373-385.	4.3	208
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41	Quantifying inflow uncertainties in RANS simulations of urban pollutant dispersion. <i>Atmospheric Environment</i> , 2017, 161, 263-273.	1.9	39
42	New generalized expressions for forced convective heat transfer coefficients at building facades and roofs. <i>Building and Environment</i> , 2017, 119, 153-168.	3.0	69
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45	Enhancement of city breathability with half open spaces in ideal urban street canyons. <i>Building and Environment</i> , 2017, 112, 322-336.	3.0	85
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48	Optimization procedures for enhancement of city breathability using arcade design in a realistic high-rise urban area. <i>Building and Environment</i> , 2017, 121, 247-261.	3.0	54
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53	The impacts of building height variations and building packing densities on flow adjustment and city breathability in idealized urban models. <i>Building and Environment</i> , 2017, 118, 344-361.	3.0	153
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83	Modelling of pedestrian level wind environment on a high-quality mesh: A case study for the HKPolyU campus. <i>Environmental Modelling and Software</i> , 2018, 103, 105-119.	1.9	34
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