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Advances in Modelling Vegetation and Forests in the Urban Environment: Local Climate and Air Quality

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Dr. Scott Krayenhoff

Prof. Dr. Sang-Hyun Lee

Deadline for manuscript
submissions:

closed (25 February 2019)

Message from the Guest Editors

We invite original research articles relating to model representation of impacts of urban vegetation and forests on local climate and air quality. These contributions will include modelling approaches at micro- to meso-scale (e.g., Computational Fluid Dynamics models, Urban Canopy Models), with a focus on the parameterization of urban vegetation (including aerodynamic, deposition and thermal effects) and their impacts on air pollutant concentrations, surface energy balance, and air/surface temperatures. Experimental work from field and laboratory studies is also welcomed, especially in relation to the drag and turbulence effects of vegetation in the urban environment useful for parametrizations development, as well as provision of velocity, turbulence and concentration data for model evaluation purposes. We also invite review papers that may focus on current knowledge and future directions in the field.



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Special Issue



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Message from the Editorial Board

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