

Special Issue

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

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.

Guest Editors

Dr. Riccardo Buccolieri

Dr. Jose Luis Santiago

Dr. Scott Krayenhoff

Prof. Dr. Sang-Hyun Lee

Deadline for manuscript submissions

closed (25 February 2019)



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About the Journal

Message from the Editorial Board

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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