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Computational Simulation of Pollution Dispersion

Guest Editor:

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Deadline for manuscript submissions:
closed (1 November 2018)

Message from the Guest Editor

Dear Colleagues,

Many practical problems involving pollutant dispersion involve numerical simulation to quantify and assess potential hazards to the public. Recent events involving terrorist activities, accidental releases of toxic materials, groundwater contamination, and indoor air pollution are just a few of the areas where assessing pollutant dispersion is of paramount importance. Accurate modelling of pollutant dispersion within any environmental medium requires knowledge of the source terms, the exchange coefficients, the geometrical domain of interest, advection, and chemical reaction rates if warranted. Recent numerical models, along with the increased power of computing, have led to sophisticated approaches that contain a great deal more physics, and provide quite accurate solutions. While experimental measurements still provide the best assessments, there are just too many instances when such results are unattainable or very sparse. There is an even more continued need today to be able to provide quick and accurate estimates in assessing environmental consequences stemming from the spread of contaminants.

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