KIKUMOTO LAB.

[Modeling of Wind and Environment in Cities]

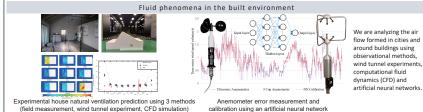
Department of Human and Social Systems

Control Engineering of Complex Environmental System

Department of Architecture, Graduate School of Engineering

http://venus.iis.u-tokyo.ac.jp/

The current research seeks to understand, predict and control the built environment. The main interests are the wind, air and thermal environments. We have been developing monitoring and simulation technologies for each environmental element and researching about control technologies that integrate measurement and prediction techniques by use of mathematical/statistical methods and artificial neural networks.



Dispersion modeling of air pollutants

Visualization of pollutant dispersion in wind tunnel



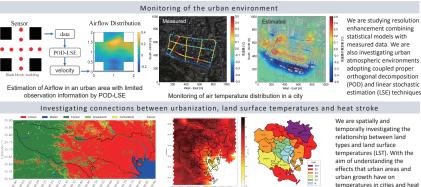
Computational prediction of pollutant concentration using turbulence model

Computational prediction of pollutant dispersion in block-arrayed urban model

analysis technologies for the dispersion phenomenon of air pollutants in urban environments using wind tunnel experiments and turbulence models.

We are developing

stroke incident rates (HSIR).





Tokyo Prefecture land types

Tokyo 23 ward land surface temperature and HSIR Rates