Program TPU New Frontier of Education and Research in Wind Engineering

New Frontier of Education and Research in Wind Engineering

Major Activities in Global COE Program

 Construction of the Database and Data Mining Approach for Wind Disasters

Background

Recently, the many disasters due to the strong wind and the gusty wind are reported.

Reasons of strong and gusty winds are predictable. But occurrence locations and times of strong wind and gusty wind are unpredictable amage Database

Objective

Establishment of assessment procedure for the wind hazard and minimization of the damage by wind hazard First Objective of this project is making the database wind hazard given by the various types of information sources

Activities in 2009

1.Field investigation

Tatebayashi city, Gunma-prefecture

*Kujukuri city, Chiba-prefecture

Tsuchiura city, Ibaraki-prefecture

Ryugasaki city, Ibaraki-prefecture

*Noshiro city, Akita-prefecture

was conducted.

2. Wind disaster resources during 2009FY were collected via the Internet.

3. Meeting about EVO damage database contents with Prof. Kareem and Dr. Kwon at University of Notre Dame was

conducted. And contents of the damage database are discussed and fixed.

4. Editing of the contents of orange

EVO damage database was conducted













Name and Stand
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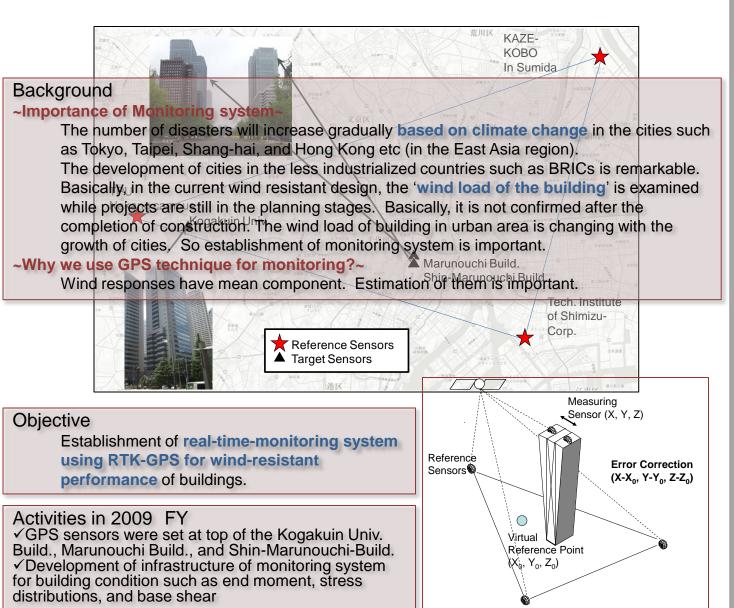
Profile Studv

I earned Ph. D degree at Tokyo Institute of Technology in 2001 Work

University of Illinois at Urbana Champaign, Nihon University, Tokyo Institute of Technology (Center of Urban Earthquake Engineering, and Tokyo Polytechnic University (Wind Engineering Research Center) in nearly a decade.

2. Real-time-monitoring system for wind-resistant performance of buildings in sustainable urban area

Establishment of its infrastructure technique-



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The titles of my past research topics are "Wind tunnel test of wind-induced oscillations for building high-rise TITI" "Rational approximation modeling dynamic visco-elastic damped structure [UIUC1" "Development hybrid technique for verifying effect of interactions between surrounding flow [Nihon Univ.]" "Consideration for methodology buildings [Nihon Univ.]", "Effective Nihon distribution Univ.]" "Wind pressure acts on mesh seat in temporary housing work and "Dvnamic reinforced under high-gravity field using large centrifuge [TIT]

I find great pleasure in being part of many kinds of research topics. Fortunately, I have researched under many different environments and enlarged number of friends and colleagues.

And now, I am very happy to be able to work as a member of Global COE in TPU!!