

A special session that is contributed to the development and application of geographically weighted regression: methods, applications and theories.

Geographically weighted regression (GWR) is a recently emerged methodology that deals with examining regressed relationships with spatial data in more detail. From the 1996 paper describing GWR in detail in the *Geographical Analysis*, to the publication of the monograph in 2002, and till today, GWR has attracted more and more attention. Not only because of the methodology reveals a trend in spatial data analysis that seeks more detailed patterns and information, but also because of the method involves methodological issues that are still under debate, such as the correlation among local coefficients, multicollinearity issue at the local level, etc.

Nonetheless, GWR has been applied rather widely in a variety of fields covering both physical and human aspects of geography. During the past 14 years, new applications, new endeavors of the methodology itself, and new critiques are constantly emerging. The attention that this method brings about and the wide perspective of applications of this particular spatial data analytical technique merit further discussion.

Sessions organized at the 2010 AAG annual meeting in Washington DC intend to extend the discussion of applying, researching, and elaborating GWR in all possible ways. Specific topics include but not limited to the following:

- Applications of GWR in all sorts of fields
- Appropriateness of applying GWR
- GWR and ESDA: confirmatory or exploratory?
- GWR and prediction
- GWR with panel data
- Methodological issues of GWR
- Statistical characteristics of GWR

Session organizer:

Dr. Danlin Yu (yud@mail.montclair.edu)
Department of Earth and Environmental Studies
Montclair State University
Montclair, NJ, 07043

Please e-mail the abstract and key words with your interest in participating in this special session to Danlin Yu (yud@mail.montclair.edu) no later than October 23rd, 2009. Please make sure that your abstract conforms to the AAG guidelines as specified at <http://www.aag.org/annualmeetings/2010/papers.htm#instructions>.

Timeline:

September 22nd, first call for papers;

October 23rd, abstracts and key words to session organizer: Danlin Yu (yud@mail.montclair.edu)

October 26th, session finalization

October 28th, abstract deadline to AAG