



## Individual Membership Form

### Personal information

Title: Associate Professor

Gender: (M/F) M

Name: TANG Xiao-Song

Suffix:

Mailing address (Street or Postal Box): 299 Bayi Road

City: Wuhan

Province/State: Hubei

Postal code: 430072

Country: China

Email address: xstang@whu.edu.cn

Website: <http://swrh.whu.edu.cn/info/1082/3041.htm>

Phone number: (86)-27-6877 2496

Fax number: (86)-27-6877 4295

Current affiliation: Wuhan University

Job title: Teacher

### Education Background

Highest degree received: Ph.D.

Received from: Wuhan University

Major: Hydraulic Structure Engineering

### Professional background

Professional background relevant to GEOSNet:

My research interests mainly include: (1) Modeling multivariate distribution of multiple soil/rock parameters using copulas and its application to reliability analysis of geotechnical structures; (2) Characterization of statistical uncertainty in multiple soil/rock parameters using frequentist and Bayesian methods and its impact on geotechnical reliability; (3) Efficient reliability methods for evaluating deformation and stability reliability for large-scale and complex geotechnical structures; (4) Prediction and control of slope deformation for large hydropower projects based on machine learning of multi-source monitoring data. I have published 38 SCI-indexed papers in a wide variety of international journals in geotechnical field and received more than 1200 citations in Web of Science with h-index = 20. I have received 2019 Sloan Outstanding Paper Award by the journal "Computers and Geotechnics". I have visited National University of Singapore as a Ph.D. student during 2011-2013 with KK Phoon as my supervisor.

Main reasons for your interest in GEOSNet and potential contributions to the network:

The mission of GEOSNet is to promote, coordinate, and support activities relating to geotechnical safety, which is consistent with my research field and goal. In addition, most of the well-known scholars in my field have joined GEOSNet and they also suggested me to join in. My potential contributions to GEOSNet can be: (1) to help organize conferences related to geotechnical safety and risk; (2) to discuss on various topics on geotechnical safety and risk; (3) other issues hosted by GEOSNet.