Message from the Guest Editor

Dear Colleagues,

Extreme weather events, occurring more frequently in recent years possibly due to climate change, result in enormous economic and human losses globally every year. It is important to have the capability to predict accurately both the occurrence time and magnitude of peak flow in advance of an impending extreme weather event. The integration of soft computing techniques in hydrological predictions is a growing field of endeavor in water resources engineering and management. It can be employed to optimally calibrate data-driven hydrological models so as to enhance the forecasting accuracy. This special edition of the Atmosphere journal is tailored to fill the existing gap by including papers on the advancement in the contemporary use of soft computing techniques in hydrological modelling. The information and analyses are intended to contribute to the development and implementation of effective hydrological prediction and thus appropriate precautionary measures.