



# Advances in Geosciences: Volume 29: Hydrological Science (HS)

Gwo-Fong Lin

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This invaluable volume set of Advances in Geosciences continues the excellent tradition of the Asia-Oceania scientific community in providing the most up-to-date research results on a wide range of geosciences and environmental science. The information is vital to the understanding of the effects of climate change and extreme weather on the most populated regions and fastest moving economies in the world. Besides, these volumes also highlight original papers from many prestigious research institutions which are conducting cutting edge studies in atmospheric physics, hydrogical science and water resource, ocean science and coastal study, planetary exploration and solar system science, seismology, tsunamis, upper atmospheric physics and space science. Contents:

- Support Vector Machine-Based Model for Daily Evaporation Estimation (Gwo-Fong Lin and Hsuan-Yu Lin)
- Rainfall Forecast with Ensemble Performance of Translation Model and Numerical Weather Prediction (Ngoc Son Nguyen, Shan He, Srivatsan V Raghavan, Chi Dung Doan and Shie-Yui Liong)
- Impact of Climate Variability and Change on Crop Water Consumption (Chavalit Chaleeraktrakoon and Surasit Punyawansiri)
- Climate Change and Socio-Hydrological Dynamics: Adaptations and Feedbacks (Yali E Woyessa and Worku A Welderufael)
- Towards River Rehabilitation as an Integrated Approach to Flood Management in Asian Cities (David L
- Flow Structure and Erosion Supress by Vegetation in Overflow on Levees (Motoyasu Sato, Takeshi Note, Akira Mano and Keiko Udo)
- Auto-Calibration by Evolutionary Algorithm in Decision Support System for Flood Warning (Jongkon Chongwilaikasem, Suwatana Chittaladakorn and Sompop Sucharit)
- Decision Support for Periodical Optimum of Water Delivery from Reservoir by Decision Tree (Eakawit Jornpradit and Suwatana Chittaladakorn)
- Decision Support System for Coastal Protection Layout Design (DSS4CPD) Using Genetic Algorithm (GA) and Multicriteria Analysis (MCA) (Phinai Jinchai and Suwatana Chittaladakorn)
- Decision Support System for Water Supply Planning (Chatree Ruangthanunrak and Suwatana *Chittaladakorn*)
- Three-Source Dynamical Model for Estimating Parameters for Irregularly Spouting Geysers Induced by Gas Inflow (Hiroyuki Kagami)

Readership: Atmospheric scientists, meteorologists, climatologists, atmospheric chemists and physical oceanographers, astronomers, planetary scientists, geophysicists, and geologists.

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