Review of 2015

Tsinghua & UC Irvine

Baoxiang Pan
baoxianp@uci.edu

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Content

“Chronicle”

CHRS
- Faculties
- DataSets
  - Precipitation DataSet
  - Drought Monitoring DataSet
- Popular Methodologies
- Projects

Tsinghua
Jan-Jul

- Master Thesis
  - Temporal Scale Analysis of Catchment Hydrological Models Based on Stochastic Features

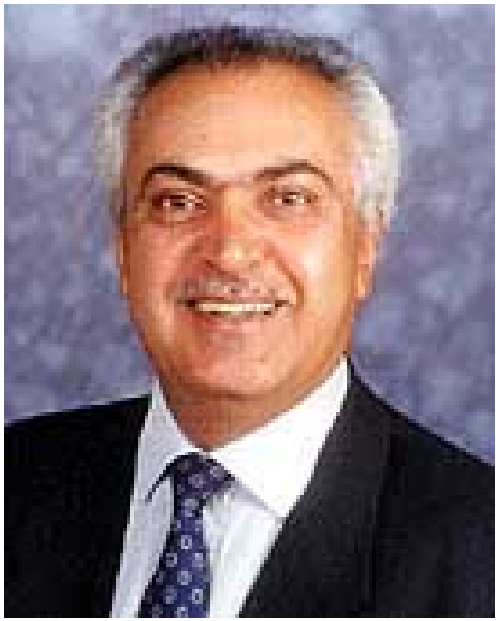
Tsinghua
Jan-Jul

- Master Thesis
  - Temporal Scale Analysis of Catchment Hydrological Models Based on Stochastic Features
- MileStones in Life

UC Irvine
Aug-Dec

- Courses
  - Hydrology & Mathematics Modelling (A)
  - Engineering Mathematics (A+)
- Research Work
  - Long Term Hydrologic Modelling for California Drought
  - Paper Revision

CHRS
Faculties



Soroosh Sorooshian

Kuolin Hsu

Amir AghaKouchak

PERSIANN

Precipitation Estimation from Remotely Sensed Information using Artificial Neural Networks

	Coverage	Resolution
Temporal	$1973 - 2015$	$3hr$
Spatial	Global	0.25×0.25

http://hydis.eng.uci.edu/gwadi/

GIDMaPS

Global Integrated Drought Monitoring and Prediction System

	Coverage	Resolution
Temporal	$1980 - 2015$	monthly
Spatial	Global	1×1

http://drought.eng.uci.edu/

Popular Methodologies

- Artificial Neural Networks
  - Deep Learning
  - SOLO
- Signal Processing
  - Principle Component Analysis
  - Wavelet Analysis
  - Spectrum Analysis
- Copula
- Information Theory

Projects

- Atmospheric River
- Water Security

Thank you,
Waiting for Cooperations!