

Soroosh Sorooshian Ph.D., N.A.E.

Distinguished Professor

Departments of Civil and Environmental Engineering and Earth System Science

University of California, Irvine, Irvine, CA, 92697-2175

(949) 824-8825/soroosh@uci.edu

Education and Training:

Institution	Major	Degree	Year
California State Polytechnic University	Mechanical Engineering	B.S.	1971
University of California, LA	Operations Research	M.S.	1973
University of California, LA	Systems Engineering	Engineer Degree	1977
University of California, LA	Engineering	Ph.D.	1978

Research and Professional Experience:

- 2003-Present **Distinguished Professor** of Civil and Environmental Engineering, and Earth System Science, UC Irvine
Director, Center for Hydrometeorology and Remote Sensing (CHRS) UC Irvine
- 1983-08/2003 **Regents Professor**, Dept. of Hydrology and Water Resources and Dept. of Systems and Industrial Engineering, University of Arizona
- 2000-2003 **Founding Director**, NSF Science and Technology Center on a Sustainability of Semi-Arid Hydrology and Riparian Areas (SAHRA), University of Arizona

Publications:

Top Cited Works

1. Duan, Q., **S Sorooshian**, and V.K. Gupta, "Effective and Efficient Global Optimization for Conceptual Rainfall-Runoff Models," *Water Resources Research*, 28(4): 1015-1031, doi: 10.1029/91WR02985, April 1992
2. Hsu, K.L., H. V. Gupta, and **S. Sorooshian**, "Artificial Neural Network Modeling of the Rainfall-Runoff Process," *Water Resources Research*, 31(10): 2517-2530, doi: 10.1029/95WR01955, October 1995
3. Gupta, H.V., **S. Sorooshian**, and P.O. Yapo, "Toward Improved Calibration of Hydrologic Models: Multiple and Non-Commensurable Measures of Information," *Water Resources Research*, 34(4): 751-763, doi: 10.1029/97WR03495, April 1998
4. Qi, J., A Chehbouni, AR Huete, YH Kerr, **S Sorooshian**, "A Modified Soil Adjusted Vegetation Index", *Remote Sensing of Environment*, 48(2): 119-126, doi: 10.1016/0034-4257(94)90134-1, May 1994
5. Duan, Q., V.K. Gupta, and **S. Sorooshian**, "A Shuffled Complex Evolution Approach for Effective and Efficient Global Optimization," *Journal of Optimization Theory and Its Applications*, 76(3): 501-521, doi: 10.1007/BF00939380, March 1993
6. Yapo, P.O., H.V. Gupta, and **S. Sorooshian**, "Multi-Objective Global Optimization for Hydrologic Models," *Journal of Hydrology*, 204(1-4): 83-97, doi: 10.1016/S0022-1694(97)00107-8, January 1998
7. Vrugt, J.A., H.V. Gupta, L.A. Bastidas, W. Bouten, and **S. Sorooshian**, "Effective and Efficient Algorithm for Multi-Objective Optimization of Hydrologic Models," *Water Resources Research* 39(8): Art No. 1214, doi: 10.1029/2002WR001746, Aug 20 2003

8. Duan, Q., **S. Sorooshian**, and V.K. Gupta, "Optimal Use of the SCE-UA Global Optimization Method for Calibrating Watershed Models," *Journal of Hydrology*, 158(3-4): 265-284, doi: 10.1016/0022-1694(94)90057-4, June 1994

Synergistic Activities

1. ***Honorary & Professional Societies: Member:*** National Academy of Engineering (NAE), 2003; International Academy of Astronautics (IAA), 2007; ***Fellow:*** American Geophysical Union (AGU), 1994; American Meteorological Society (AMS), 1995; American Association for the Advancement of Science (AAAS), 1997; International Water Resources Association (IWRA), 2001; TWAS – The World Academy of Sciences, 2010; Indian Association of Hydrologists, Roorkee, India; Japan Society for the Promotion of Science (JSPS) Award, 2006, 1998, 1989
2. ***Editorial Boards:*** Computer-Aided Civil and Infrastructure Engineering, *Advances in Water Resources*, *Scientia Iranica: International Journal of Science and Technology*, *IEEE Systems Journal*, *Journal of Hydrology*, *Iranian Journal of Science and Technology (IJST)*
3. ***Teaching Awards:*** Engineering Student Council (ESC) UCI Civil & Environmental Engineering Professor of the Year, 2010-2011; Orange County Engineering Council (OCEC) Distinguished Engineering Educator Award 2009; American Society of Civil Engineers (ASCE) Orange County Branch 2007-2008 Distinguished Engineering Educator
4. ***Honors and Awards:*** Chinese Academy of Sciences (CAS) Einstein Professorship, 2014; Robert E. Horton Medalist ,American Geophysical Union (AGU) 2013; UCLA CEE Distinguished Alumnus of the Year Award 2013; Eagleson lectureship, Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI), 2012; 4th Prince Sultan Bin Abdulaziz International Prize for Water, Resources Management & Protection Branch category award, 2010; Walter Orr Roberts Lecturer in Interdisciplinary Sciences Award, American Meteorological Society (AMS), 2009; Robert E. Horton Memorial Lectureship, American Meteorological Society (AMS), 2006; NASA Distinguished Public Service Medal, 2005; William Nordberg Memorial Lectureship, NASA Goddard Scientific Colloquium, 2004; Group Honor Award for Excellence, U.S. Department of Agriculture, 2001
5. ***Committee Assignments:*** American Geophysical Union (AGU), American Meteorological Society (AMS), IPCC, WMO, GEWEX, NASA, National Academy of Sciences, NOAA, UCAR, WCRP