

Raghavan Srinivasan, Ph.D.

Director and Professor
Spatial Sciences Lab and Blackland Research Center
Texas A&M University System, 223 B Centeq Building, 1500 Research Parkway,
College Station, TX 77845

Phone : (979) 845-5069; Fax : (979) 862-2607

E-mail : r-srinivasan@tamu.edu; <http://ssl.tamu.edu>

PROFESSIONAL PREPARATION

TNAU (INDIA), Agricultural Engineering, *B.E.*, 1984

Asian Institute of Technology (Bangkok), Agricultural Engineering, *M.S.*, 1989

Purdue University, Agricultural Engineering, *Ph.D.*, 1992

APPOINTMENTS

Director of Spatial Sciences Lab and Professor of Ecosystem Science and Management,
Biological Agricultural Engineering and Blackland Research Center, TAMU, 2002- present
Director and Associate Professor, Spatial Sciences Lab and Blackland Research Center, TAMU,
2000- 2002

Associate Professor, TAES, Temple, TX, 1999–2000

Assistant Professor, TAES, Temple, TX, 1995–1999

Agricultural Engineer and Associate Research Scientist, TAES, Temple, TX, 1992–1995

Graduate Research Assistant, Purdue University, W. Lafayette, IN, 1989–1992

Graduate Research Assistant, AIT, Bangkok, 1988–1989

PUBLICATIONS

Debele, B., R. Srinivasan, J-Yves Parlange. 2008. Hourly Analyses of Hydrological and Water Quality Simulations Using the ESWAT Model. *Water Resour. Manage.* DOI:10.1007/s11269-008-9276-2.

Debele, B., R. Srinivasan, A.K. Gosain. 2009. Comparison of Process-Based and Temperature-Index Snowmelt Modeling in SWAT. *Water Resour. Manage.* DOI 10.1007/s11269-009-9486-2

Schuol, J., K. C. Abbaspour, H. Yang, R. Srinivasan, and A. J. B. Zehnder. 2008. Modeling blue and green water availability in Africa, *Water Resour. Res.*, 44, W07406, doi: 10.1029/2007WR006609.

Schuol, J., K.C. Abbaspour, R. Srinivasan, H. Yang. 2008. Estimation of freshwater availability in the West African sub-continent using the SWAT hydrologic model *Journal of Hydrology*. 2008(352):30-49.

Setegn, S. G., R. Srinivasan, B. Dargahi. 2008. Hydrological Modelling in the Lake Tana Basin, Ethiopia Using SWAT Model. *The Open Hydrology Journal*. (2):49-62.

Tuppad, P., C. Santhi, R. Srinivasan. 2009. Assessing BMP effectiveness: multiprocedure analysis of observed water quality data. *Environmental Monitoring and Assessment*. DOI: 10.1007/s10661-009-1235-8.

Van Griensven, A., T. Meixner, R. Srinivasan, S. Grunwald. 2008. Fit-for-purpose analysis of uncertainty using split-sampling evaluations. *Hydrological Sciences–Journal–des Sciences Hydrologiques*. 53(5).

Zhang, X., R. Srinivasan, B. Debele, and F. Hao. 2008. Runoff Simulation of the Headwaters of the Yellow River Using the Swat Model With Three Snowmelt Algorithms *JAWRA*. 4(1):48-61

Zhang, X., R. Srinivasan, M. Van Liew. 2009. On the use of multi-algorithm, genetically adaptive multi-objective method for multi-site calibration of the SWAT model. *Hydrological Processes*. DOI: 10.1002/hyp.7528

Zhang, X., Srinivasan, R., Bosch, D., Calibration and uncertainty analysis of the SWAT model using Genetic Algorithms and Bayesian Model Averaging, *Journal of Hydrology* (2009), doi: 10.1016/j.jhydrol.2009.06.023

OTHER SIGNIFICANT PUBLICATIONS

Arnold, J.G., R. Srinivasan, T.S. Ramanarayanan, J. Williams. (1998). Large area hydrologic modeling and assessment: Part I - model development. *JAWRA*. Vol. 34(1), pp. 73-90.

Arnold, J.G., and R. Srinivasan. (1998). A continuous catchment-scale erosion model. In: Boardman, J. and D. Favis-Mortlock, editors. Modeling soil erosion by water, Springer-Verlag NATO-ASI global change series, Heidelberg, Germany, Vol. 1(55), pp. 413-427.

Srinivasan, R., J.G. Arnold, R.S. Muttiah and P.T. Dyke. (1995). Plant and hydrological simulation for the conterminous U.S. using SWAT and GIS. *Hydrological Science and Technology*: 1995 (10) 1-4. pp 160-168. American Institute of Hydrology.

Srinivasan, R., B.A. Engel, J.R. Wright, J.G. Lee and D.D. Jones. (1994). The Impact of GIS Derived Topographic Attributes on the Simulation of Erosion Using AGNPS. *Applied Engineering in Agriculture*. Vol. 10, NO. 4. pp 561-566.

Srinivasan, R., and B.A. Engel. (1994). A spatial decision support system for assessing agricultural nonpoint source pollution. *Water Resources Bulletin*. *AWRA*, Vol.30, NO. 3: June 1994. pp 441-452.

SYNERGISTIC ACTIVITIES

HUMUS: The HUMUS (Hydrologic Unit Model for the United States) project improves on existing technologies for making national and regional water resource assessment using SWAT and GIS.

BASINS: In this project user-friendly spatial tools for extraction of model input data are developed for US-EPA's BASINS.

Real-Time Hydrological Drought Information system: In this project an Information System will be developed, by integrating information from NOAA-AVHRR satellites and NEXRAD radar with GIS. (<http://srph.brc.tamus.edu/mapserver/avhrr/index.html>).