

Entekhabi_CV

Dara Entekhabi

Date: January 31, 2024

Department: Department of Civil and Environmental Engineering

Education Records

Institution	Degree	Date	Specialization	Thesis Title
M.I.T.	Ph.D., Department of Civil Engineering	January 1990		Landsurface Hydrology Parameterization for Atmospheric General Circulation Models: Inclusion of Subgrid Scale Spatial Variability and Screening with a Simple Climate Model
Clark University	M.A., School of Geography	June 1987		
Clark University	M.A., School of Geography	June 1984		
Clark University	B.A., School of Geography	June 1983		

Fields of Interest

Field of Interest
Earth Observations
Land-Atmosphere Interactions
Geophysical Data Assimilation

MIT Appointments

Title	Type	Department	Begin Date	End Date
Professor	Primary Appointment	Department of Civil and Environmental Engineering	7/1/2000	-
Professor/Joint	Additional Appointment	Dept of Earth, Atmospheric, & Planetary Sciences	7/1/2000	-
Associate Professor/Joint (Wt)	Additional Appointment	Earth, Atmospheric & Planetary Sciences	2/27/1998	6/30/2000
Associate Professor with tenure	Primary Appointment	Civil and Environmental Engineering	7/1/1997	6/30/2000
Associate Professor without tenure	Primary Appointment	Civil and Environmental Engineering	7/1/1995	6/30/1997
Assistant Professor	Primary Appointment	Civil and Environmental Engineering	7/1/1991	6/30/1995
Visiting Assistant Professor	Primary Appointment	Civil and Environmental Engineering	8/1/1990	6/30/1991
Postdoctoral Associate	Primary Appointment	Civil and Environmental Engineering	9/7/1989	7/31/1990

Non-MIT Experience

Employer	Title	Begin Date	End Date
University of Arizona	Assistant Professor	September 1990	August 1991
Clark University	Teaching Assistant	September 1983	December 1983
Clark University	Research Assistant	January 1983	August 1985

Honors and Awards

Award Name	Date
Engineering Distinguished Scholar, Monash University	2020
Outstanding Visiting Professorship, Tsinghua University	2019
Neil Armstrong Distinguished Visiting Professorships, Purdue University	2018
American Meteorological Society's Dave & Lucille Atlas Remote Sensing Prize	2017
NASA Group Achievement Award	2017
NASA Outstanding Public Leadership Medal	2017
National Academy of Engineering Member	2017
Hydrology Days Award	2016
Eagleson Lecture	2016
Hydrologic Sciences Award	2015
Institute of Electrical and Electronics Engineers, Inc. (IEEE) Fellow	2015

2014 Boussinesq Lecture, The Netherlands	2014
Robert E. Horton Lecture (AMS)	2012
American Meteorological Society (AMS), Fellow	2003
AGU Macelwane Young Scientist Medal	1996
American Geophysical Union (AGU), Fellow	1996
AGU James B. Macelwane Medal	1996
Istituto Veneto di Scienze, Lettere ed Arti, Cav. Arturo Parisatti Prize	1994
National Science Foundation (NSF), Presidential Young Investigator	1991

Professorships

Title	Type	Begin Date	End Date
Bacardi and Stockholm Water Foundations Professor	Full Chair	7/1/2004	6/30/2024
Gilbert Winslow Career Development Chair (MIT)		1994	1997

Publications

Papers in refereed journals

Publication Name and Url	Publication Date
Nicholson, S. E. and D. Entekhabi, 1986: The quasi-periodic behavior of rainfall variability in Africa and its relationship to the Southern Oscillation, Archives for Meteorology, Geophysics, and Bioclimatology, Series A., 34, 311-348.	1986
Nicholson, S. E. and D. Entekhabi, 1987: Rainfall variability in Equatorial and Southern Africa: Relationship with sea surface temperatures along the Southwestern coast of Africa, Journal of Climate and Applied Meteorology, 26(5), 561-578.	1987
Entekhabi, D., I. Rodriguez-Iturbe, and P. S. Eagleson, 1989: Probabilistic representation of the temporal rainfall process by a modified Neyman-Scott rectangular pulses model: Parameter estimation and validation, Water Resources Research, 25(2), 295-302.	1989
Entekhabi, D. and P. S. Eagleson, 1989: Land surface hydrology parameterization for atmospheric General Circulation models including subgrid scale spatial variability, Journal of Climate, 2(8), 816-831.	1989
Islam, S., D. Entekhabi, R. L. Bras and I. Rodriguez-Iturbe, 1990: Parameter estimation and sensitivity analysis of the modified Bartlett- Lewis rectangular pulses model, Journal of Geophysical Research, 95 (D3), 2093-2100.	1990
Entekhabi, D. and P. S. Eagleson, 1991: Climate and the equilibrium state of land surface hydrology parameterizations, Surveys in Geophysics, 12, 205-220.	1991
Rodriguez-Iturbe, I., D. Entekhabi, J.-S. Lee and R. L. Bras, 1991: Nonlinear dynamics of soil moisture at climate scales, 2. Chaotic analysis, Water Resources Research, 1907-1916.	1991
Rodriguez-Iturbe, I., D. Entekhabi and R. L. Bras, 1991: Nonlinear dynamics of soil moisture at climate scales, 1. Stochastic analysis, Water Resources Research, 27(8), 1899-1906. Outgrowth of supervised student research	1991
Cabral, M. C., L. Garrote, R. L. Bras and D. Entekhabi, 1992: Kinematic infiltration in vertically homogeneous anisotropic and sloped soils, Advances in Water Resources, 15, 311-324.	1992
Entekhabi, D., I. Rodriguez-Iturbe and R. L. Bras, 1992: Variability in large-scale water balance with landsurface-atmosphere interaction, Journal of Climate, 5(8), 798-813.	1992
Johnson, K. D., D. Entekhabi and P. S. Eagleson, 1993: The implementation and validation of improved landsurface hydrology in an atmospheric general circulation model, Journal of Climate, 6(6), 1009-1026.	1993
Brubaker, K. L., D. Entekhabi and P. S. Eagleson, 1993: Estimation of continental precipitation recycling, Journal of Climate, 6(6), 1077-1089.	1993
Entekhabi, D., 1994: A simple model of hydrologic cycle and climate: 1. Model construct and sensitivity to landsurface boundary, Advances in Water Resources, 17, 79-91.	1994
Salvucci, G. D. and D. Entekhabi, 1994: Explicit expressions for Green- Ampt (delta function diffusivity) infiltration rate and cumulative storage, Water Resources Research, 30(9), 2661-2663.	1994
Salvucci, G. D. and D. Entekhabi, 1994: Comparison of the Eagleson statisticaldynamical water balance model with numerical simulations, Water Resources Research, 30(10), 2751-2758.	1994
Salvucci, G. D. and D. Entekhabi, 1994: Equivalent steady soil moisture profile and time compression approximation in water balance modeling, Water Resources Research, 30(10), 2737-2750.	1994
Brubaker, K. L., D. Entekhabi and P. S. Eagleson, 1994: Atmospheric water vapor transport and continental hydrology over the Americas, Journal of Hydrology, 155, 407-428.	1994
Gong, G., D. Entekhabi and G. D. Salvucci, 1994: Regional and seasonal estimates of spatial rainstorm coverage based on station precipitation observations, Journal of Climate, 7(10), 1495-1505.	1994
Entekhabi, D., H. Nakamura and E. G. Njoku, 1994: Solving the inverse-problem for soil moisture and temperature profiles by sequential assimilation of multifrequency remotely sensed observations, IEEE Transactions on Geoscience and Remote Sensing, 32(2), 438-448.	1994
Entekhabi, D. and I. Rodriguez-Iturbe, 1994: An analytic framework for the characterization of the space-time variability of soil moisture, Advances in Water Resources, 17, 25-45.	1994

Entekhabi, D., K. L. Brubaker and P. S. Eagleson, 1994: A simple model of hydrologic cycle and climate: 2. Observational evidence for the parameterization of atmospheric heat and moisture divergence, <i>Advances in Water Resources</i> , 17, 93-100.	1994
Brubaker K. L. and D. Entekhabi, 1995: An analytic approach to modeling land-atmosphere interaction: 1. Construct and equilibrium behavior, <i>Water Resources Research</i> , 31(3), 619-632.	1995
Rodriguez-Iturbe, I., G. K. Vogel, R. Rigon, D. Entekhabi, F. Castelli and A. Rinaldo, 1995: On the spatial organization of soil moisture fields, <i>Geophysical Research Letters</i> , 22(20), 2757-2760.	1995
Njoku, E. G. and D. Entekhabi, 1995: Passive microwave remote sensing of soil moisture, <i>Journal of Hydrology</i> , 184(1), 101-130.	1995
Entekhabi, D., I. Rodriguez-Iturbe and F. Castelli, 1995: Mutual interaction of soil moisture state and atmospheric processes, <i>Journal of Hydrology</i> , 184(1), 3-18.	1995
Salvucci, G. D. and D. Entekhabi, 1995: Ponded infiltration into soils bounded by a water table, <i>Water Resources Research</i> , 31(11), 2751- 2759.	1995
Scott, R., R. Koster, D. Entekhabi and M. Suarez, 1995: Effect of canopy interception reservoir on hydrologic persistence in a general circulation model, <i>Journal of Climate</i> , 8(7), 1917-1922.	1995
Entekhabi, D., 1995: Recent advances in land-atmosphere interaction research, <i>Reviews of Geophysics</i> , 995-1003.	1995
Salvucci, G. D. and D. Entekhabi, 1995: Hillslope and climatic controls on hydrologic fluxes, <i>Water Resources Research</i> , 31(7), 1725-1740.	1995
Entekhabi, D. and K. L. Brubaker, 1995: An analytic approach to modeling land-atmosphere interaction: 2. Stochastic extension, <i>Water Resources Research</i> , 31(3), 633-644.	1995
Risbey, J. S. and D. Entekhabi, 1996: Observed Sacramento basin streamflow response to precipitation and temperature changes and its relevance to climate impact studies, <i>Journal of Hydrology</i> , 184, 209-223.	1996
Castelli, F. I. Rodriguez-Iturbe and D. Entekhabi, 1996: An analytical framework for the modeling of the spatial interaction between the soil moisture and atmosphere, <i>Journal of Hydrology</i> , 184(1), 19-34.	1996
Brubaker, K. L. and D. Entekhabi, 1996: Analysis of feedback mechanisms in land-atmosphere interaction, <i>Water Resources Research</i> , 32(5), 1343-1357.	1996
Brubaker, K. L. and D. Entekhabi, 1996: Asymmetric recovery from dry-vs.wet soil moisture anomalies, <i>Journal of Applied Meteorology</i> , 35(1), 94-109.	1996
Caporali, E., D. Entekhabi, F. Castelli, 1996: Rainstorm statistics conditional on soil moisture index: Temporal and spatial characteristics, <i>Meccanica</i> , 31, 103- 116.	1996
Wang, J., R. L. Bras and D. Entekhabi, 1997: Structures in fluctuations of largescale soil moisture climate due to external random forcing and internal feedbacks, <i>Journal of Stochastic Hydrology and Hydraulics</i> , 11, 95-114.	1997
Kim, C. P. and D. Entekhabi, 1997: Examination of two methods for estimating regional evapotranspiration using a coupled mixed-layer and surface model, <i>Water Resources Research</i> , 33(9), 2109-2116.	1997
Liu, Z., J. B. Valdes and D. Entekhabi, 1997: Merging forecasts of drought index anomalies along the Gulf Coast in the U.S. using multiple precursors with a Kalman filter, <i>Experimental Long-Lead Forecast Bulletin</i> , 6(1), 38-40.	1997
Marani, M., G. Grossi, F. Napolitano, M. Wallace and D. Entekhabi, 1997: Forcing, intermittency and land surface hydrology partitioning, <i>Water Resources Research</i> , 33(1), 167-176.	1997
Scott, R., D. Entekhabi, R. D. Koster and M. J. Suarez, 1997: Time scales of land surface evapotranspiration response, <i>Journal of Climate</i> , 10(4), 559-566.	1997
Kim, C. P. and D. Entekhabi, 1998: Analysis of feedback mechanisms in the uncoupled and coupled land surface and mixed layer energy budgets, <i>Boundary Layer Meteorology</i> , 88, 1-21.	1998
Cohen, J. and D. Entekhabi, 1998: Eurasian snow cover variability and Northern Hemisphere climate predictability, <i>Geophysical Research Letters</i> , 26(3), 345-348.	1998
Galantowicz, J. F., D. Entekhabi and E. G. Njoku, 1998: Tests of sequential data assimilation for retrieving profile soil moisture and temperature from observed L band radiobrightness, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 37(4), 1860-1870.	1998
Kim, C. P., and D. Entekhabi, 1998: Impact of soil heterogeneity in a mixed-layer model of the planetary boundary layer, <i>Hydrological Sciences Journal</i> , 43(4), 633-658.	1998
Liu, Z., J. B. Valdes and D. Entekhabi, 1998: Merging and error analysis of regional hydrometeorology anomaly forecasts conditioned on climate precursors, <i>Water Resources Research</i> , 34(8), 1959-1970.	1998
Kim, C. P., G. D. Salvucci, and D. Entekhabi, 1999: Groundwater surface water interaction and the climatic spatial patterns of hillslope hydrologic response, <i>Hydrology and Earth Systems Science</i> , 3(3), 375- 384.	1999
Castelli, F., D. Entekhabi, and E. Caporali, 1999: Estimation of surface heat flux and an index of soil moisture using adjoint-state surface energy balance, <i>Water Resources Research</i> , 35(10), 3115-3126.	1999
Entekhabi, D. G. R. Asrar, A. K. Betts, K. J. Beven, R. L. Bras, C. J. Duffy, T. Dunne, R. D. Koster, D. P. Lettenmaier, D. B. McLaughlin, W. J. Shuttleworth, M. T. van Genuchten, M.-Y. Wei, E. F. Wood, 1999: An Agenda for land-surface hydrology research and a call for the second International Hydrological Decade, <i>Bulletin of the American Meteorological Society</i> , 80(10), 2043-2058.	1999
Galantowicz, J. F., D. Entekhabi and E. G. Njoku, 2000: Estimation of soil type heterogeneity effects in the retrieval of soil moisture from radiobrightness, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 38(1), 312-316.	2000
Entekhabi, D., 2000: Meeting report: Predictability and limits-to-prediction in hydrologic systems, <i>EOS</i> , 82(2), page 14.	2000
Entekhabi, D., 2000: A Report and A Call by the National Research Council's Committee on Hydrologic Science, <i>EOS</i> , 81(24), 267.	2000
Long, M., D. Entekhabi and S. E. Nicholson, 2000: Interannual variability in rainfall, water vapor flux, and vertical motion over West Africa, <i>Journal of Climate</i> , 13(21), 3827-3841.	2000

Reichle, R., D. B. McLaughlin, and D. Entekhabi, 2001: Variational data assimilation of microwave radiobrightness observations for land surface hydrologic applications, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 39(8), 1708-1718.	2001
Primus Gorenburg, I., D. B. McLaughlin and D. Entekhabi, 2001: Scale-recursive assimilation of precipitation data, <i>Advances in Water Resources</i> , 24(9-10), 941- 953.	2001
Plaut-Berger K. and D. Entekhabi, 2001: Basin hydrologic response relations to distributed physiographic descriptors and climate, <i>Journal of Hydrology</i> , 247, 169-182.	2001
Margulis, S. and D. Entekhabi, 2001: A coupled land surface-boundary layer model and its adjoint, <i>Journal of Hydrometeorology</i> , 2(3), 274- 296.	2001
Reichle, R., D. Entekhabi, and D. McLaughlin, 2001: Downscaling of radiobrightness measurements for soil moisture estimation: A four-dimensional variational data assimilation approach, <i>Water Resources Research</i> , 37(9), 2353- 2364.	2001
Boni, G., D. Entekhabi, and F. Castelli, 2001: Land data assimilation with satellite measurements for the estimation of surface energy balance components and surface control on evaporation, <i>Water Resources Research</i> , 37(6), 1713-1722.	2001
Cohen, J., K. Saito, and D. Entekhabi, 2001: The role of the Siberian High in Northern Hemisphere climate variability, <i>Geophysical Research Letters</i> , 28(2), 299-302.	2001
Cohen, J. and D. Entekhabi, 2001: The influence of snow cover on Northern Hemisphere climate variability, <i>Atmosphere-Ocean</i> , 39(1), 35- 53. 13	2001
Socolofsky, S., E. Adams, and D. Entekhabi, 2001: Disaggregation of daily rainfall for continuous watershed modeling, <i>Journal of Hydrologic Engineering</i> , 6(4), 300-309.	2001
Boni, G., F. Castelli, and D. Entekhabi, 2001: Sampling strategies and assimilation of ground temperature for the estimation of surface energy balance components, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 39(1), 165-172.	2001
Margulis, S. and D. Entekhabi, 2001: Feedback between land surface energy balance and atmospheric boundary layer diagnosed through a model and its adjoint, <i>Journal of Hydrometeorology</i> , 2(6), 599-620.	2001
Saito, K., J. Cohen, and D. Entekhabi, 2001: Evolution of atmospheric response to early-season Eurasian snow cover anomalies, <i>Monthly Weather Review</i> , 129(11), 2746-2760.	2001
Margulis, S. A. and D. Entekhabi, 2001: Temporal disaggregation of satellitederived monthly precipitation estimates and the resulting propagation of error in partitioning of water at the land surface, <i>Hydrology and Earth System Sciences</i> , 5(1), 27-38.	2001
Reichle, R., D. B. McLaughlin, and D. Entekhabi, 2002: Hydrologic data assimilation with the ensemble Kalman Filter, <i>Monthly Weather Review</i> , 130 (1), 103-114, 2002.	2002
Gong, G., D. Entekhabi, and J. Cohen, 2002: Modeled northern hemisphere winter climate response to realistic Siberian snow anomalies, <i>Journal of Climate</i> , 16(23), 3917-3932.	2002
Caparrini, F., F. Castelli, and D. Entekhabi, 2002: Remote sensing of land surface evaporation, <i>EOS</i> , 83(27), 290-291.	2002
Gong, G. D. Entekhabi, and J. Cohen, 2002: A large-ensemble model study of the wintertime AO/NAO and the role of surface perturbations, <i>Journal of Climate</i> , 15(23), 3488-3499.	2002
Margulis, S. A., D. B. McLaughlin, D. Entekhabi, and S. Dunne, 2002: Land data assimilation and estimation of soil moisture using measurements from the Southern Great Plains 1997 field experiment, <i>Water Resources Research</i> , 38(12), 1299.	2002
Grassotti, C., R. N. Hoffman, E. R. Vivoni, and D. Entekhabi, 2003, Multiple time scale intercomparison of two radar products and rain gauge observations over the Arkansas-Red River Basin, <i>Weather and Forecasting</i> , 18(6), 1207-1229.	2003
Gong, G., D. Entekhabi, and J. Cohen, 2003: Relative impacts of Siberian and North American snow anomalies on the Winter Northern Hemisphere mode, <i>Geophysical Research Letters</i> , 30(16).	2003
Margulis, S. and D. Entekhabi, 2003: Variational assimilation of surface temperature and micrometeorology into a model of the atmospheric boundary layer and land surface, <i>Monthly Weather Review</i> , 131(7), 1272-1288.	2003
Caparrini, F., F. Castelli, and D. Entekhabi, 2003: Mapping of land-atmosphere heat fluxes and surface parameters with remote sensing data, <i>Boundary-Layer Meteorology</i> , 17(3), 605-633.	2003
Caparrini, F., F. Castelli, and D. Entekhabi, 2004: Estimation of surface moisture control and turbulent transfer by assimilating sequences of radiometric surface temperature measurements, <i>Journal of Hydrometeorology</i> , 5(1), 145-159.	2004
Caparrini, F., F. Castelli, and D. Entekhabi, 2004: Variational Estimation of soil and vegetation turbulent transfer and heat flux parameters from sequences of multi-sensor imagery, <i>Water Resources Research</i> , 40(12), DOI.10.1029/2004WR003358.	2004
Ivanov, V., E. Vivoni, R. Bras, and D. Entekhabi, 2004: Catchment hydrologic response with a fully-distributed triangulated irregular network model, <i>Water Resources Research</i> , 40, W11102, doi: 10.1029/2004WR003218.	2004
Ivanov, V., E. Vivoni, R. Bras, and D. Entekhabi, 2004: Preserving highresolution surface and rainfall data in operational-scale basin hydrology: A fullydistributed physically-based approach, <i>Journal of Hydrology</i> , 298(1-4), 80-111.	2004
Vivoni, E., V. Ivanov, R. Bras and D. Entekhabi, 2004. Generation of triangulated irregular networks based on hydrological similarity. <i>Journal of Hydrologic Engineering</i> , 9(4): 288-302.	2004
Rudari, R., D. Entekhabi, and G. Roth, 2004: Terrain and multiple-scale interactions as factors in generating extreme precipitation events, <i>Journal of Hydrometeorology</i> , 5: 390-404.	2004
Kanamaru, H., G. Salvucci, and D. Entekhabi, 2004: Central U.S. atmospheric water and energy budgets adjusted for diurnal sampling biases using top-ofatmosphere aadiation, <i>Journal of Climate</i> , 17, 2454-2465.	2004
Gong, G., D. Entekhabi and J. Cohen, 2004. Orographic constraints on a modeled Siberian snow — Arctic Oscillation teleconnection pathway, <i>Journal of Climate</i> , 17, 1176-1189.	2004
Entekhabi, D., Njoku, E., Houser, P., Spencer, M., Doiron, T., Smith, J., Girard, R., Belair, S., Crow, W., Jackson, T., Kerr, Y., Kimball, J., Koster, R., McDonald, K., O'Neill, P., Pultz, T., Running, S., Shi, J.C., Wood, E. and van Zyl, J., 2004, The Hydrosphere State (HYDROS) mission concept: An Earth system pathfinder for global mapping of soil moisture and land freeze/thaw. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 42(10), 2184-2195.	2004

Margulis, S. and D. Entekhabi, 2004: Boundary layer entrainment estimation through assimilation of radiosonde and micrometeorology data, <i>Boundary-Layer Meteorology</i> , 110, 405-433.	2004
Gong, G., D. Entekhabi, J. Cohen, and D. Robinson, 2004: Sensitivity of atmospheric response to modeled snow anomaly characteristics, <i>Journal of Geophysical Research</i> , 109(D06107).	2004
G. Gong, D. Entekhabi, J. Cohen, D. Robinson "Sensitivity of atmospheric response to modeled snow anomaly characteristics: ATMOSPHERIC RESPONSE TO SNOW" <i>Journal of Geophysical Research: Atmospheres</i> [2169897X] 109.D6 (2004): n/a-n/a. Print. 10.1029/2003...	March 2004
Vivoni, E.R., V. Teles, V. Y. Ivanov, R. L. Bras, and D. Entekhabi 2005: Embedding landscape processes into triangulated terrain models, <i>International Journal of Geographical Information Science</i> , 19(4), 429-457.	2005
Merlin, O., A. G. Chehbouni, Y. Kerr, E. G. Njoku, and D. Entekhabi, 2005: A combined modeling and multi-spectral/multi-resolution remote sensing approach for disaggregation of surface soil moisture: Application to SMOS configuration, <i>IEEE Transactions on Remote Sensing and Geoscience</i> , 43(9), 2036-2050.	2005
Vivoni, E.R., Ivanov, V.Y., Bras, R.L. and Entekhabi, D. 2005. On the effect of triangulated terrain resolution on distributed hydrologic modeling, <i>Hydrological Processes</i> , 19 (11) 2101-2122.	2005
Dunne, S. and D. Entekhabi, 2005: An ensemble-based reanalysis approach to land data assimilation, <i>Water Resources Research</i> , 41(2), W0201310.1029/2004WR003449.	2005
Crow, W. T., T. Chan, D. Entekhabi, P. R. Houser, A. Hsu, T. J. Jackson, E. Njoku, P. E. O'Neill, J. C. Shi, and X. Zhan, 2005: An Observing System Simulation Experiment for HYDROS radiometer-only soil moisture data products, <i>IEEE Transactions on Remote Sensing and Geoscience</i> , 43(6) 1289-1303.	2005
Rudari, R., D. Entekhabi, and G. Roth, 2005: Large-scale atmospheric patterns associated with mesoscale features leading to extreme precipitation events in Northwestern, <i>Advances in Water Resources</i> , 28(6), 601-614.	2005
Vivoni, E.R., D. Entekhabi, R. L. Bras, V. Y. Ivanov, M.P. Van Horn, C. Grassotti, and R. N. Hoffman, 2006: Extending the predictability of hydrometeorological flood events using radar nowcasting, <i>Journal of Hydrometeorology</i> , 7(4), 660-667.	2006
Gong, G., and J. Cohen, D. Entekhabi, Y. Ge, 2006: Hemispheric-scale climate response to Northern Eurasia land surface characteristics and snow anomalies, <i>Global and Planetary Change</i> , doi:10.1016/j.gloplacha.2006.07.025.	2006
Wang, W., B. T. Anderson, and D. Entekhabi, 2006: Feedbacks of vegetation on summertime climate variability over the North American grasslands: 2. A coupled stochastic model, <i>Earth Interactions</i> , 10(16), 1-30.	2006
Martina, M. L. V. and D. Entekhabi 2006: Identification of runoff spatial variability using conventional hydrologic gauge time-series, <i>Water Resources Research</i> , 42(8), W08431, doi:10.1029/2005WR004783.	2006
Margulis, S., D. Entekhabi, D. McLaughlin, 2006: Spatiotemporal disaggregation of remotely sensed precipitation for ensemble hydrologic modeling and data assimilation, <i>Journal of Hydrometeorology</i> , 7(3), 511-533, doi: 10.1175/JHM492.	2006
Krajewski, W., M. Anderson, W. Eichinger, D. Entekhabi, B. Hornbuckle, P. Houser, G. Katul, W. Kustas, J. Norman, C. Peters-Lidard, and E. Wood, 2006: A remote sensing observatory for hydrologic sciences: A genesis for scaling to continental hydrology, <i>Water Resources Research</i> , 42, W07301, doi:10.1029/2005WR004435.	2006
Crow, W. T., D. Entekhabi, R. D. Koster, and R. H. Reichle, 2006: Multiple spaceborne water cycle observations would aid modeling, <i>EOS</i> , 87 (15), 149 and 153.	2006
McLaughlin, D., Y. Zhou, D. Entekhabi, and V. Chatdarong, 2006: Computational issues for large-scale land surface data assimilation problems, <i>Journal of Hydrometeorology</i> , 7(3), 494-510, doi: 10.1175/JHM493.1	2006
Zhou, Y. D. McLaughlin, and D. Entekhabi, 2006: Assessing the performance of the ensemble kalman filter for land surface data assimilation, <i>Monthly Weather Review</i> , 134(8), 2128-2142.	2006
Van Horn, M.P., E.R. Vivoni, D. Entekhabi, R.N. Hoffman, C. Grassotti, 2006: Evaluating the effects of image filtering in short-term radar rainfall forecasting for hydrological applications, <i>Meteorological Applications</i> , 13, 1 (15), doi:10.1017/S1350482706002295	2006
Vivoni, E.R., Entekhabi, D., Bras, R.L. and Ivanov, V.Y. 2007. Controls on runoff generation and scale-dependence in a distributed hydrologic model, <i>Hydrology and Earth System Sciences</i> , 11(5): 1683-1701. 1.	2007
Moghaddam, M., Y. Rahmat-Samaei, E. Rodriguez, D. Entekhabi, J. Hoffman, D. Moller, L. Pierce, S. Saatchi, M. Thomson, 2007: Microwave Observatory of Subcanopy and Subsurface (MOSS): A mission concept, <i>IEEE Geoscience and Remote Sensing</i> , 15, 105-116.	2007
Gentine, P., D. Entekhabi, A. Chehbouni, G. Boulet and B. Duchemin, 2007: Analysis of evaporative fraction diurnal behavior, <i>Agricultural and Forest Meteorology</i> , 143, 13-29.	2007
Entekhabi, D. and M. Moghaddam 2007: Mapping recharge from space: Roadmap to meeting the grand challenge, <i>Journal of Hydrogeology</i> , 15, 105-116.	2007
Dunne, S., D. Entekhabi, and E. Njoku, 2007: Impact of multi-resolution active and passive measurements on soil moisture estimation using the ensemble Kalman smoother, <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 45(4), 1016-1028.	2007
Vivoni, E., D. Entekhabi and R. Hoffman, 2007: Error propagation from radar rainfall nowcasting fields to a fully-distributed flood forecasting model, <i>Journal of Applied Meteorology and Climatology</i> , 46(6), 932-940.	2007
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New Products, Processes, and Designs

Description	Start Date	End Date
Science Team Leader: SMAP - Soil Moisture Active/Passive satellite mission, NASA, Phase E, January 31, 2015 launch.	-	-
Science Team Member: AirMOSS – Airborne Microwave Observatory of Subcanopy and Subsurface, NASA, Phase E.	2012	2018
Principal Investigator: HYDROS - The Hydrosphere State satellite mission, NASA Earth System Science Pathfinder program.	2000	2005

Non-MIT Professional Activities

Professional Service

Organization Name and Description	Role	Start Date	End Date
AMS, 8th Conference on Hydrometeorology	Session Chair	October 1990	October 1990
AGU, Precipitation Committee	Member	January 1991	December 1998
AMS, Hydrology Committee	Member	January 1992	January 1995
AGU, Special Session on Drought	Session Chair	December 1992	December 1992
AGU, Water Resources Research	Associate Editor	January 1993	December 1996
ESA/NASA, Int. Remote Sensing Workshop	Session Chair	January 1993	January 1993
ASCE, Task Committee on Climate Variability & Change	Member	January 1993	January 1994
4th International Conference on Precipitation	Session Chair	April 1993	April 1993
MIT Colloquium on Hydroclimatology & Global Hydrology		April 1993	April 1993
NATO, Workshop on Environmental Change	Session Chair	May 1993	May 1993
NRC, National Weather Service Modernization Committee	Member	January 1994	January 1999
IEEE, Remote Sensing Conference	Technical Committee	August 1994	August 1994
Advances in Water Resources	Editorial Board	September 1994	October 2000
AGU, Reviews of Geophysics	Associate Editor	November 1994	June 1997
AMS, Hydrology Committee	Committee Chair	January 1995	January 1997
AMS, 12th Conference on Hydrology	Organizer	January 1995	January 1995
International Conference on Drought in Africa	Panel	August 1995	August 1995
AMS, Committee on Membership Diversification	Member	August 1995	January 1999
NASA, Goddard Inst. for Space Studies	Review Team	August 1996	August 1996
AMS, 13th Conference on Hydrology	Organizer	February 1997	February 1997
Evaluation of ESSP Satellite Mission Concepts	Panel	April 1998	April 1998
AGU, Special Session on Data Assimilation	Chair	May 1998	May 1998
NASA, Post-2002 Mission Planning	Working Group	August 1998	August 1998
AMS, Journal of Hydrometeorology	Editor	January 1999	December 2002
NRC, Committee on the Hydrologic Sciences	Chair	February 1999	February 2002
AGU, Water Resources Research	Editor Search Committee	March 2000	July 2000

International Workshop on Soil Moisture	Plenary Chair	May 2000	May 2000
AMS, Committee on Inclusiveness	Membership	February 2001	February 2004
EGS, Conference on Mediterranean Storms	Science Committee	October 2001	October 2001
NRC, Committee on the Hydrologic Sciences	Member	February 2002	February 2003
AMS, Fellows Committee		December 2002	December 2005
EGS, Special Session on Mediterranean Storms		April 2003	April 2003
EGS, Special Session on Landmarks in Hydrology		April 2003	April 2003
NRC, Committee on Advanced Hydrologic Prediction		January 2004	April 2005
University College Cork	Department External Committee	January 2004	January 2008
Army, Workshop on Soil Moisture Remote Sensing	Chair	January 2004	January 2004
IEEE, Geoscience and Remote Sensing 2008 Symposium	Co-Chair, Technical Committee	June 2004	May 2009
NRC, Water Science and Technology Board	Member	July 2004	June 2007
IEEE, Special Session on SMOS and Hydros, International Remote Sensing and Geoscience Symposium, Anchorage	Co-Chair	September 2004	September 2004
Catchment-scale Hydrological Modeling and Data Assimilation	Scientific Advisory Committee	October 2004	October 2004
NRC, Space Studies Board, Earth Observations Committee	Member	January 2005	July 2007
Integrated Program Office, MW Imagery/Radiometry Operational Algorithm Team		January 2005	December 2009
Fourth World Meteorological Organization, International Symposium on Assimilation of Observations in Meteorology and Oceanography, Prague	International Program Committee	April 2005	April 2005
AGU, Horton Medal Committee	Member	September 2006	September 2009
AGU, Water Resources Research	Associate Editor	September 2006	September 2009
St. Anthony Falls Laboratory, University of Minnesota, Academic Review Board	Member	March 2007	March 2007
NRC, Water Implications of Biofuels Production	Member	April 2007	December 2007
University College Cork, Campus Research Review		October 2008	October 2008
AGU, Special Session on SMAP	Session Chair	December 2008	December 2008
IEEE, Geoscience and Remote Sensing 2009 Symposium	Technical Program Committee	February 2009	July 2009
NRC, Opportunities and Challenges in the Hydrologic Sciences		January 2010	February 2012
IEEE, Geoscience and Remote Sensing 2010 Symposium	Technical Program Committee	February 2010	July 2010
NASA, GMAO Advisory Board		January 2011	December 2011
IEEE, Geoscience and Remote Sensing 2011 Symposium	Technical Program Committee	February 2011	July 2011
IEEE, Geoscience and Remote Sensing 2012 Symposium	Technical Program Committee	February 2012	July 2012
SPiE, Society Asia Pacific	Conference Program Committee	4/1/2012	4/1/2013
EUMETSAT, Land Satellite Applications Facility	Advisory Board	April 2013	April 2014
University College Dublin, Grand Challenges in Hydrology Convergence	International Science Committee Member	June 2013	April 2014

Centro Internazionale in Monitoraggio Ambientale (CIMA), Italy	Scientific Council Member	October 2013	October 2014
University College Cork, Research Quality Review		June 2014	June 2015
NASA, GSFC Earth Science Divison	Visiting Committee	August 2014	August 2018
China State Key Laboratory for Remote Sensing	Review	November 2014	November 2014
Syed Babar Ali School of Science and Engineering, Lahore, Pakistan	Advisory Board Member	1/1/2017	-
MicroRad 2018 Conference, IEEE	Chair	1/1/2017	12/31/2018
American Geophysical Union, Hydrologic Sciences Award Committee	Committe Member	1/1/2017	12/31/2019
American Meteorological Society, Hydrologic Sciences Award Committee	Committee Member	1/1/2017	12/31/2020
National Academy of Sciences, Earth Science Decadal Survey	Committee Member	1/1/2017	12/31/2017
National Academy of Sciences, Committee on Urban Hydrology	Committee Member	1/1/2017	12/31/2019
American Meteorological Society, Awards Nomination Committee	Chair	1/1/2021	12/31/2021
American Meteorological Society, Awards Nomination Committee	Member	1/1/2022	12/31/2022