

Results of the STAHY Best Paper Award 2015

The STAHY Best Paper Award 2015 is assigned to:

- Gianfausto Salvadori, Università del Salento, Italy
- Carlo De Michele, Politecnico d Milano, Italy,
- Fabrizio Durante, Libera Università di Bolzano, Italy



Gianfausto Salvadori, Carlo De Michele and Fabrizio Durante

for the paper:

Salvadori, G., De Michele, C., Durante, F. On the return period and design in a multivariate framework (2011) *Hydrology and Earth System Sciences*, 15 (11), pp. 3293-3305.

The STAHY Best Paper 2015 is the result of evaluation of 20 papers, selected among the 332 papers (published in 2011-2012-2013) present in ICSH website and ordered by citations (SCOPUS database, excluding self citations).

The list of 20 eligible papers are:

1. Sousa, P.M., Trigo, R.M., Aizpurua, P., Nieto, R., Gimeno, L., Garcia-Herrera, R. Trends and extremes of drought indices throughout the 20th century in the Mediterranean (2011) *Natural Hazards and Earth System Science*, 11 (1), pp. 33-51. Cited 45 times.
2. Tao, H., Gemmer, M., Bai, Y., Su, B., Mao, W. Trends of streamflow in the Tarim River Basin during the past 50years: Human impact or climate change? (2011) *Journal of Hydrology*, 400 (1-2), pp. 1-9. Cited 40 times
3. Tabari, H., Talaei, P.H. Temporal variability of precipitation over Iran: 1966-2005 (2011) *Journal of Hydrology*, 396 (3-4), pp. 313-320. Cited 35 times.
4. Koutsoyiannis, D. Hurst-Kolmogorov Dynamics and Uncertainty (2011) *Journal of the American Water Resources Association*, 47 (3), pp. 481-495. Cited 30 times.
5. Lorenzo-Lacruz, J., Vicente-Serrano, S.M., López-Moreno, J.I., Morán-Tejeda, E., Zabalza, J. Recent trends in Iberian streamflows (1945-2005) (2012) *Journal of Hydrology*, 414-415, pp. 463-475. Cited 28 times.
6. Vogel, R.M., Yaindl, C., Walter, M. Nonstationarity: Flood magnification and recurrence reduction factors in the united states (2011) *Journal of the American Water Resources Association*, 47 (3), pp. 464-474. Cited 28 times.
7. Beguería, S., Angulo-Martínez, M., Vicente-Serrano, S.M., López-Moreno, J.I., El-Kenawy, A. Assessing trends in extreme precipitation events intensity and magnitude using non-stationary peaks-over-

- threshold analysis: A case study in northeast Spain from 1930 to 2006 (2011) *International Journal of Climatology*, 31 (14), pp. 2102-2114. Cited 27 times.
8. Villarini, G., Smith, J.A., Baeck, M.L., Krajewski, W.F. Examining Flood Frequency Distributions in the Midwest U.S. (2011) *Journal of the American Water Resources Association*, 47 (3), pp. 447-463. Cited 26 times.
 9. Caloiero, T., Coscarelli, R., Ferrari, E., Mancini, M. Trend detection of annual and seasonal rainfall in Calabria (Southern Italy) (2011) *International Journal of Climatology*, 31 (1), pp. 44-56. Cited 26 times.
 10. Salvadori, G., De Michele, C., Durante, F. On the return period and design in a multivariate framework (2011) *Hydrology and Earth System Sciences*, 15 (11), pp. 3293-3305. Cited 25 times.
 11. Fleig, A.K., Tallaksen, L.M., Hisdal, H., Hannah, D.M. Regional hydrological drought in north-western Europe: Linking a new Regional Drought Area Index with weather types (2011) *Hydrological Processes*, 25 (7), pp. 1163-1179. Cited 25 times.
 12. Westra, S., Alexander, L.V., Zwieters, F.W. Global increasing trends in annual maximum daily precipitation (2013) *Journal of Climate*, 26 (11), pp. 3904-3918. Cited 25 times.
 13. Chebana, F., Ouarda, T.B.M.J. Multivariate quantiles in hydrological frequency analysis (2011) *Environmetrics*, 22 (1), pp. 63-78. Cited 22 times.
 14. Hirsch, R.M. A Perspective on nonstationarity and water management (2011) *Journal of the American Water Resources Association*, 47 (3), pp. 436-446. Cited 22 times.
 15. Oguntunde, P.G., Abiodun, B.J., Lischeid, G. Rainfall trends in Nigeria, 1901-2000 (2011) *Journal of Hydrology*, 411 (3-4), pp. 207-218. Cited 21 times.
 16. Ouarda, T.B.M.J., El-Adlouni, S. Bayesian nonstationary frequency analysis of hydrological variables (2011) *Journal of the American Water Resources Association*, 47 (3), pp. 496-505. Cited 21 times.
 17. Lins, H.F., Cohn, T.A. Stationarity: Wanted dead or alive? (2011) *Journal of the American Water Resources Association*, 47 (3), pp. 475-480. Cited 21 times.
 18. Pal, I., Al-Tabbaa, A. Assessing seasonal precipitation trends in India using parametric and non-parametric statistical techniques (2011) *Theoretical and Applied Climatology*, 103 (1), pp. 1-11. Cited 21 times.
 19. Chowdhary, H., Escobar, L.A., Singh, V.P. Identification of suitable copulas for bivariate frequency analysis of flood peak and flood volume data (2011) *Hydrology Research*, 42 (2-3), pp. 193-216. Cited 20 times.
 20. Bessa, R.J., Miranda, V., Botterud, A., Zhou, Z., Wang, J. Time-adaptive quantile-copula for wind power probabilistic forecasting (2012) *Renewable Energy*, 40 (1), pp. 29-39. Cited 19 times.
 21. Gřaler, B., Van Den Berg, M.J., Vandenberghe, S., Petroselli, A., Grimaldi, S., De Baets, B., Verhoest, N.E.C. Multivariate return periods in hydrology: A critical and practical review focusing on synthetic design hydrograph estimation (2013) *Hydrology and Earth System Sciences*, 17 (4), pp. 1281-1296. Cited 19 times.

*this paper is excluded from the evaluation procedure since one of the authors is part of the Award Committee.

The ICSH Award Winner will be one of the invited speakers of the STAHY15 Addis Ababa Workshop.

The STAHY Best Paper Award 2015 Committee: Salvatore Grimaldi, Uwe Haberlandt, Emna Gargouri, Simon Micheal Papalexou, Ebru Eris.