

28th June, Morning

Session 13 - Management and Modelling

	Nº	Title	Author
09.00-10.30	182	Multi-objective spatial groundwater allocation by means of cell-based stochastic and simulated evolution	<u>Epaminondas Sidiropoulos</u> & Dimitrios Fotakis
	73	Modelling Institutional and hydrologic water availability: lessons from the Texas experience	<u>Ralph Wurbs</u>
	165	The delta model for fresh water policy analysis in The Netherlands	<u>Geert Prinsen</u> , Frederiek Sperna Weiland & Erik Ruijgh
	199	A linked simulation-optimization model for estimating the Manning's surface roughness in river flows	<u>M. Tamer Ayvaz</u> , Omer Genc
	24	Flood modelling in complex urban environments	<u>Vasilis Bellos</u> , George Tsakiris
	30	An Assessment of technical efficiency of the rainfed cropping in the Oued Oum Zessar watershed (south-eastern Tunisia)	<u>Naceur Mahdhi</u>
	302	Optimal redesign of groundwater monitoring networks: a data-driven multi-approach software	<u>Emanuele Barca</u> , Giuseppe Passarella, Michele Vurro, Alberto Morea

Session 14 - Droughts and Water Scarcity

	Nº	Title	Author
09.00-10.30	228	Analysis and modification of meteorological drought indices in diverse hydroclimatic environments	<u>Athanassios Loukas</u> , Anthoula Anagnostopoulou, Lampros Vasiliades, N. Mylopoulos
	198	Spring Drought Prediction: Portuguese Case	<u>João Santos</u> , Maria Portela, Inmaculada Pulido-Calvo
	63	Development of high-resolution gridded datasets of monthly temperature for Portugal	<u>Tayeb Raziei</u> , Isabella Bordi, Diogo Martins, Luis Santos Pereira
	65	Variants of the Palmer Drought Severity Index for Portugal using fine resolution gridded datasets	Diogo Martins, <u>Ricardo Rosa</u> , Tayeb Raziei, Isabella Bordi, <u>Luis Santos Pereira</u>
	115	A Fuzzy Multicriteria Categorization of Water Scarcity in Complex Water Resources Systems	<u>Mike Spiliotis</u> , Francisco Martin-Carrasco, Luis Garrote
	64	On the potential of ground-based GPS measurements for monitoring dry/wet events	<u>Isabella Bordi</u> , Tayeb Raziei, Alfonso Sutera
	291	SPI-based probabilistic analysis of drought areal extent in Sicily	Brunella Bonaccorso, David J. Peres, Antonio Castano, <u>Antonino Cancelliere</u>

Session 15 - Management and Modelling

	Nº	Title	Author
11.00-12.30	297	A multi-dimensional analysis of the agro-ecological system of the upper Rio Grande-San Luis Valley, Colorado	Ken Mix , Vicente Lopes, Walter Rast
	162	Impacts of vegetation cover on surface-groundwater flow and solute interactions in a semi-arid saline floodplain: A case study on the lower river Murray, Australia	S. Alaghmand , S. Beecham & A. Hassanal
	178	Variability of alpine snow and ice melt and its response to regional climate change in northwest of China	Changbin Li , Wei Xiong, Jiaguo Qi, Songbing Zou, Linshan Yang, Gaofeng Zhu, Wenjin Yang, Shuaibing Wang
	86	Machine learning techniques for modelling river flow time series in the upper Cauvery river basin	Shivshanker Singh , Parthasarathy Ramachandran
	279	Effects of evapotranspiration and rainfall on HSF constructed wetland performance - numerical simulation	Konstantinos A. Liolios , Konstantinos N. Moutsopoulos, Vassilios A. Tsihrintzis
	280	An ant colony optimization approach for estimating the parameters of the nonlinear Muskingum flood routine model	Halil Karahan, Gurhan Gurarslan , Ozgur Baskan
	258	A sensitivity analysis on the parameters of Clark instantaneous unit hydrograph	Stavros Yannopoulos , Christos Christidis, Athanasios Loukas

Session 16 - Droughts and Water Scarcity

	Nº	Title	Author
11.00-12.30	292	Drought forecasting and warning in Africa: recent advances from the DEWFORA Project	Micha Werner , Washington Nyabaze, Francois Engelbrecht, Florian Pappenberger, Ana Iglesias, Paulo Barbosa, Jean-Marie Kileshe Onema
	241	Economic valuation of drought impacts on urban water supply systems. Application to a Portuguese drought prone area	Eduardo Vivas , Rodrigo Maia
	107	Water Quality and Quantity of the Lakes in Arid Xinjiang, NW China	Jinglu Wu , Wen Liu, Haiao Zeng, Long Ma, Ruidong Bai
	200	Tracing the nitrate sources of the Yili River in the Taihu Lake watershed: a dual isotope approach	Haiao Zeng , Jinglu Wu
	290	Drought effects on ecological quality of aquatic systems	Vanessa Ramos , Nuno Formigo, Rodrigo Maia
	40	Modelling drought severity at different timescales using standardized precipitation index and geostatistics: an application in southern Italy	Gabriele Buttafuoco, Tommaso Caloiero , Roberto Coscarelli
	242	Socioeconomic evaluation of drought effects. Main principles and application to Guadiana and Algarve case studies.	Rodrigo Maia , Eduardo Vivas, Ricardo Serralheiro, Mário Carvalho

28th June, Afternoon

Session 17 - Urban water cycle

	Nº	Title	Author
14.30-16.00	106	Pre-processing and visualization of biofilm development in drinking water distribution systems	Eva Ramos-Martínez , Manuel Herrera, Joaquín Izquierdo, Rafael Pérez- García
	43	Reliability Assessment of Urban Water Distribution Networks Under Seismic Loads	Michalis Fragiadakis, Symeon E. Christodoulou
	98	An innovative approach to Floods and Fire Risk Assessment and Management: the FLIRE Project	Chrysoula Papathanasiou , Christos Makropoulos, Maria Mimikou
	103	Flood mitigation at the downstream areas of a transboundary river	Dimitrios Serbis , Chrysoula Papathanasiou, Nikolaos Mamasis
	270	Managing the urban water cycle in a changing environment	Rodrigo Proença de Oliveira, José Saldanha Matos, António Jorge Monteiro
	267	Retrofitting urban infrastructure with green technology for hydrologic restoration, reuse and load reduction	Saurabh Raje, Michelle Siminari, Ruben Kertesz, Lynn Maccarone, Karl Selzers, Brandon Wood, Peter Simm, John Sansalone

Session 18 - Water reuse, recycling and protection

	Nº	Title	Author
14.30-16.00	207	Multi-criteria decision making approach for water management under complete uncertainty using RCP 4.5 & 8.5 scenarios	Eun-Sung Chung , Sangho Lee , Sang-Mook Jun, Boram Lee, Yeonjoo Kim
	192	The influence of nutrients on turfgrass response to treated wastewater application, under several saline conditions and irrigation regimes	J. Beltrao , P. J. Correia, M. Costa, P. Gamito, R. Santos And J. Seita
	232	Treatment of olive mill wastewater in pilot-scale natural systems	Georgios D. Gikas, Ioannis D. Tsakmakis, Vassilios A. Tsihrintzis
	108	Modelling the impacts of CSO events on receiving water quality	Marek Sokáč, Yvetta Velísková, Vanda Dubová
	84	Beyond the WFD in lowland soils: zeolife, a project to minimize livestock effluents	Barbara Faccini, Dario Di Giuseppe, Nicolò Colombani, Micó Mastrocicco , Massimo Coltorti