

### 27th June, Morning

#### Session 7 - Water Quality

Chair Room	Lúcia Guilhermino Auditorium		
	Nº	Title	Author
09.00-10.30	235	Integrated procedure for environmental flow assessment in rivers	<u>Francisco Godinho</u> , Sérgio Costa, Paulo Pinheiro, Filipa Reis, António Pinheiro
	298	Spatial and temporal distribution of groundwater contamination in Greece based on historical data	<u>Zoi Dokou</u> , Nektarios N. Kourgialas, George P. Karatzas
	33	The determination of mixtures toxicity at high concentrations of some acidic pharmaceuticals via <i>Vibrio Fischeri</i>	<u>Ayse Handan Dokmeci</u> , Ismet Dokmeci, Hilmi Ibar
	101	Pollutant spreading in small adjustive stream	<u>Yvetta Velísková</u> , Marek Sokáč, Peter Halaj, Márta Koczka Bara, Renáta Dulovičová, Radoslav Schügerl
	172	Key-descriptors for the functioning of a Mediterranean reservoir: The case of a new lake Karla-Greece	Maria Chamoglou, Theodoti Papadimitriou & <u>Ifigenia Kagalou</u>
	294	Assessment of water quality in a Mediterranean basin: the case of the Gediz basin in Turkey	Filiz Barbaros, <u>Nilgun B. Harmancioglu</u>

#### Session 8 - Water Supply Systems and Water Loss Management

Chair Room	Joaquim Poças Martins Room 3		
	Nº	Title	Author
09.00-10.30	89	Pressure as predictor of pipe breaks in water distribution networks	<u>Ángela Martínez-Codina</u> , Marta Castillo, Dunia González-Zeas, Luis Garrote
	152	Improving the efficiency of leak location via optimal pressure sensor placement in water distribution networks	<u>Luisa Ribeiro</u> , Joaquim Sousa, Alfeu Sá-Marques
	166	Pressure-Dependent Multiple-Species Water Quality Modelling of Water Distribution Networks	<u>Alemtsehay G. Seyoum</u> , Tiku T. Tanyimboh
	145	The influence of pressure/leakage relationships from existing leaks in the benefits yielded by pressure management	<u>Ricardo Gomes</u> , Joaquim Sousa, Alfeu Sa Marques
	205	Dynamic management of water supply systems: a tool to build scenarios by merging GPR surveys and augmented reality	<u>David Ayala-Cabrera</u> , Manuel Herrera, Joaquín Izquierdo, Rafael Perez-García, Silvia J. Ocaña-Levario
	50	Bridging the water supply-demand gap in Australia: a desalination case study	<u>Oz Sahin</u> , Rodney Stewart, Fernanda Helfer

#### Session 9 - Optimal vs. Rational Decision Making

Chair Room	Luis Garrote Auditorium		
	Nº	Title	Author
11.00-12.30	81	Coping with the uncertainties in the climate change adaptation of river dikes using risk-aversion economic optimization	<b>Lu Wang</b> , P.H.A.J.M Van Gelder, J.K. Vrijling, R. Ranasinghe, S. Maskey
	281	Short-term reservoir optimization for mitigating downstream flood risks	Dirk Schwanenberg, <b>Jan Talsma</b> , Jose Luis Pinho, Alberto Assis dos Reis, Marcelo Rodrigues Bessa, Julio Kuwajima
	260	Assessing the eco-efficiency of Sinistra Ofanto irrigation scheme	<b>Mladen Todorovic</b> , Dionysis Assimacopoulos, Daniele Zaccarias, Alessandra Scardigno
	197	River flow and floodplain patterns affected by river basin factors and its response to extreme events	<b>Judith Ramos</b> , Jesus Gracia, David Pineda
	287	Measuring the sustainability of urban water services	Rui Cunha Marques, <b>Nuno Ferreira da Cruz</b>
	12	Performance evaluation of a river basin committee in Brazil	Izabella de Camargo Aversa, <b>João Luiz Boccia Brandão</b>

#### Session 10 - Droughts and Water Scarcity

Chair Room	Henny van Lanen Room 3		
	Nº	Title	Author
11.00-12.30	289	Modelling hydrological droughts in a (semi-)arid basin	<b>Shreedhar Maskey</b> , Patricia Trambauer
	299	An ANN technique for flood and drought forecasting in a Mediterranean river basin using global change scenarios	<b>Nektarios N. Kourgialas</b> , Zoi Dokou, George P. Karatzas
	82	Forecasting salinization trends in a lowland aquifer: Comacchio (Italy)	<b>Nicoló Colombani</b> , Beatrice Maria Sole Giambastiani, Micól Mastrocicco
	226	Impacts of climate change, hydrological drought mitigation measures and irrigation demand on water supply system performance	<b>Teresa Maestro</b> , Vincenzo Nicolosi, Antonino Cancelliere, María Bielza
	62	Spatial modes of drought variability in Portugal using a high-resolution gridded dataset	Tayeb Raziei, Isabella Bordi, <b>Diogo Martins</b> , Luis Santos Pereira, Alfonso Sutera
	194	Water management issue and vulnerability to climate change in the Caribbean small island developing states	<b>Mattia Amadio</b> , Francesca Brkic & Jaroslav Mysiak

**27th June, Afternoon**

**Session 11 - Water Quality**

Chair Room	José Manuel Vieira Room 3		
	Nº	Title	Author
14.30-16.00	250	Increase of the Dissolved Oxygen (DO) in water flowing through the Fridão turbine	<u>Maria Inês Lacerda</u> , Nuno Osório
	262	Impacts of flow-through trout farm effluents on Esen stream water quality and evaluation of different management scenarios by modelling	<u>Ayse Muhammetoglu</u> , Mehmet Ali Koçer, Sercan Durmaz, Yılmaz Emre
	104	Applicability of existing modelling approaches for simulation of dispersion phenomenon	Pavel Berta, <u>Marek Sokáč</u> , Yveta Velísková
	189	Interaction Between Drought And Soil Erosion: The Case Of Guadiana River Pilot Basin, Portugal	E. Bakopoulos, P. Angelidis and <u>V. Hrissanthou</u>
	214	Combined use of geophysical methods and water information to assess human activities impacts on karst groundwater quality	<u>Teresa E. Leitão</u> , Rogério Mota, Maria Emília Novo, João Paulo Lobo-Ferreira
	238	Estimation of reference evapotranspiration using remote sensing and minimum hydrological data	<u>Gianna Kitsara</u> , Georgia Papaioannou, Adrianos Retalis, Petros Kerkides

**Session 12 - Incorporation of CC Effects and Adaptation in WFD Implementation**

Chair Room	Ana Iglesias Auditorium		
	Nº	Title	Author
14.30-16.00	195	Impact of climate change on water requirements in Mediterranean irrigated agriculture	<u>Iker García Garizabal</u> , Jesús Causapé, Raphael Abrahao, Daniel Merchán
	269	The Portuguese climate change adaptation strategy for water resources management	<u>Rodrigo Proença de Oliveira</u> , Luis Veiga da Cunha
	70	Quantitative assessment of climate change vulnerability of irrigation demands in Mediterranean Europe	<u>Luis Garrote</u> , Ana Iglesias, Luis Mediero, Francisco Martín-Carrasco
	188	Management of irrigation demands in water resources systems affected by climate change	<u>Adriadna Chávez-Jiménez</u> , Francisco Martín-Carrasco, Luis Garrote, Luis Mediero
	114	Potential Impacts of Climate Change on Water Resources in British Columbia Communities	<u>S. Abadzadesahraei</u> , J. Sui
	227	Annual maximum frequency analysis of rainfall using climate covariates in a nonstationary environment	<u>Lampros Vasiliades</u> , Panagiota Galiatsatou, Athanasios Loukas
	286	Applications of an ideal rainfall-runoff chain: validation and climate change	<u>Klaus Fraedrich</u> , Frank Sielmann, Xiuhua Zhu, Ling Zhang