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The Economic Role of Water under Scarcity and Sustainability Constraints

Guest Editor:

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Message from the Guest Editor

The existence of Water in sufficient quantities as per 2017 U.N. resolution on the definition of Water Security has been exhaustively analysed.

The aim of this Special Issue is to present articles going a step further, the exposition and analysis of the quantitative/qualitative role Water plays in an economy under scarcity and sustainability constraints. These constraints may alter the nature of the Production Function at country/region level by the inclusion of extra variables. A putative hierarchy of needs may alter supply/demand curves and Slutsky/Hicks decompositions according to the development level of the country/region considered. Also, they will extend to the Leontief Matrix of economy acting as an enveloping frame for any model used to describe the resulting economy. Particular weight will be added to optimality conditions regarding various economic variables.

Cost effects and production level/restrictive choices for goods transmitted to the economy are of importance and Consumer Choices will be affected using classical or novel methods, e.g., Thaler's recent theory.









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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. Water invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to technological scientific domains and interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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