

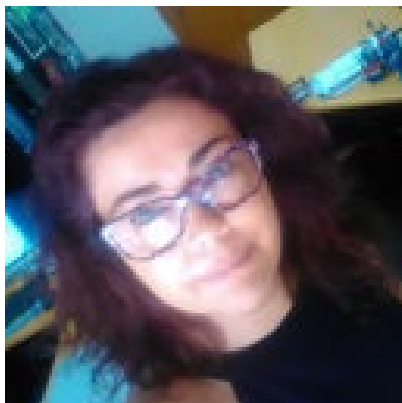
WATER CHALLENGES

July 13th | 14:30 | Clara Cordeiro

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ABSTRACT

Water is one of the world's most important natural resources. However, in recent years, periods of drought attributed to climate change have affected many countries worldwide. Consequently, this natural resource has become limited in some regions globally, such as the Algarve region in Portugal. Water utilities in the region have felt responsible for raising consumers' awareness about responsible water use. In this context, water utilities want to promote sustainable water use and reduce water consumption through a water metering policy. However, when it comes to the processing of actual metering data, several difficulties arise. This seminar will show the challenges proposed by water utilities of this region and the strategies used to overcome them.



SPEAKER

Clara Cordeiro has a PhD in Mathematics and Statistics from the Universidade Técnica de Lisboa (nowadays, Universidade de Lisboa). She is an Assistant Professor at the Department of Mathematics, University of Algarve, Portugal. Her scientific interests are bootstrap for dependent data, exponential smoothing methods, and forecasting time series. However, she has been working in other research fields such as trend tests in hydrological time series, modelling remote sensing time series of sea surface temperature, among others. She also developed the procedures `Boot.EXPOS()` and `stl.fit()` for forecasting time series and time series decomposition, respectively. Recently, she has been involved in analysing the time series of water consumption in collaboration with water utilities in the Algarve.