

A Software Tool for Analysis and Forecast of Hydrometeorological Variables

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Abstract

The Data Deluge Era represents a challenge for researchers, providing them a growing and complex data mass, many times difficult to extract information from this data mass. In order to extracting value from these data, computational resources have been increasingly used in scientific research, integrating Computer Science to other knowledge areas. Due to its interdisciplinary aspect, Data Science emerges as an approach to enable this integration, using tools and methods from many knowledge areas to transform these data in useful information, through of a Data Science Lifecycle. Aiming to automate phases from this lifecycle, it was developed a software using as case study the process of analysis and forecast of hydrometeorological variables. In this paper, it was described this software as well the study case used to validate the software developed.

Keywords: Data Science, Machine Learning, Hydrology.

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