Article

Predict the duration of forestfires using machine learning methods

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Abstract: Forest and urban fires are a major problem in the modern era that tests the endurance of governments to extinguish them. Fires can cause economic and ecological problems especially in the summer months. In modern times, the rapid development of Artificial Intelligence can be a weapon for predicting the evolution of fires or even for their prevention. Specifically, through Machine Learning, which is one part of Artificial Intelligence several methods have been incorporated to detect the duration of fires using data which are freely available from the Fire Service of Greece for a period of 10 years. For this purpose, a wide range of machine learning techniques were used on this data and the experimental results were more than encouraging.