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**James E Arthur\*** (jearthur@miners.utep.edu), 910 N Oregon, El Paso, TX 79902, and **Maria Mariani** and **Osei Tweneboah**. *Using Machine Learning for the prognosis and diagnosis of an Imbalanced Cancer dataset.*

With an estimated 1.4 million cancer diagnosis worldwide and the increasing death of cancer patients. It is very important to investigate methods and techniques used for predicting and diagnosing of cancer so that a holistic approach can be used to curb or reduce false predictions, increase exact predictions and also provide meticulous prognosis information.

We will show here that this problem of cancer prognosis and diagnosis can be efficiently tackled with the aid of machine learning techniques and the best, feasible and efficient technique can be used to reduce this cancer menace. Cancer has been characterized as a heterogeneous disease consisting of many different subtypes. The early diagnosis and prognosis of a cancer type have become a necessity in cancer research, as it can facilitate the subsequent clinical management of patients.

Even though it is evident that the use of Machine Learning methods can improve our understanding of cancer progression, an appropriate level of validation is needed in order for these methods to be considered in the everyday clinical practice. In this work, what we present are view of recent ML approaches employed in the modeling of cancer prognosis and diagnosis. (Received August 04, 2020)