World Academy of Science, Engineering and Technology International Journal of Law and Political Sciences Vol:9, No:07, 2015

Using Support Vector Machines for Measuring Democracy

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Abstract : We present a novel approach for measuring democracy, which enables a very detailed and sensitive index. This method is based on Support Vector Machines, a mathematical algorithm for pattern recognition. Our implementation evaluates 188 countries in the period between 1981 and 2011. The Support Vector Machines Democracy Index (SVMDI) is continuously on the 0-1-Interval and robust to variations in the numerical process parameters. The algorithm introduced here can be used for every concept of democracy without additional adjustments, and due to its flexibility it is also a valuable tool for comparison studies

Keywords: democracy, democracy index, machine learning, support vector machines

Conference Title: ICPSIR 2015: International Conference on Political Science and International Relations

Conference Location : Prague, Czechia **Conference Dates :** July 09-10, 2015