FUZZY REPRESENTATION OF THE INTERRELATION BETWEEN INDIAN POLITICS AND ECONOMY

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The political situation and the economy of our country are highly interrelated. But the relation between them is not describable by Mathematics or by any other non-fuzzy statistical methods, which can give the degree of interdependence between them. This is not possible mainly because the political situation of our country depends on the party in position, which in turn reflects the economic condition of the country. Nowadays it has become impossible for a single party to be in rule or in position and only coalition governments are in power with supporting parties having an upper hand in most of decisions. This largely affects the economic condition in a very subtle way. For instance a state party allied with the center seeks for lots of revenue for improvement of their own state and so on and so forth.
Further the economy also depends on the strength of the opposition party. Not only internal conditions of the country plays a major role but also the foreign policy directly influences the economy of the country. Thus the nation’s economy and its political situations are highly interdependent and also depend on other factors like, problems in coalition government, strength of the opposition party, World Bank loans, Foreign policy, inflation, loss at local elections by the ruling party, Economic sanctions etc. Thus these factors are attributes as they are not describable by quantities; hence it is fact that fuzzy approach can alone give an unbiased solution or interdependence in a precise way.

We use neural networks and classify these attributes under the unsupervised data. We give the directed graph of these factors using the Fuzzy Cognitive Maps, which are transformed to adjacency matrices and these matrices in turn describe the dynamical behavior of the attributes. Thus an attribute is treated as a state vector and its effect over the system is studied. The equilibrium of a system can become a fixed point or a limit cycle or a limit tours of a dynamical system: Thus here we obtain the interrelation between politics and economy using Fuzzy Cognitive Map.