

FUZZY COGNITIVE MAP OF SOCIO-ECONOMIC MODEL

W.B.Vasantha Kandasamy and S. Uma

In this paper we use fuzzy cognitive map to study the hidden pattern for a socio economic model constructed with population, crime, economic condition, poverty and unemployment as the five nodes. To study this model in this paper we take only the opinion of three experts. One can take several other nodes and several experts opinion. By increasing the nodes of the problem under study certainly the results will be sensitive and also by taking several experts opinion are can get a medium and a normal opinion not shooting to extremes.

The study indicated the following. When the population is on the increase the hidden pattern indicates the on state of poverty and crime in the Indian socio economic set up. But some other expert is of only of the opinion increase in population, the crime comes to the on state in the hidden pattern. Several hidden patterns are obtained by varying the on state and an overall conclusion is obtained based on this study.

All Rights Reserved. This work is Copyright © W.B.Vasantha Kandasamy and S. Uma, 2003. Mathematicians can use the above material for research purposes, but the work of the author(s) ***must*** be acknowledged. Violators of copyright, and those indulging in *plagiarism* and *intellectual theft* are liable for strict prosecution.

e-mail: vasantha@iitm.ac.in
web: <http://mat.iitm.ac.in/~wby>