

## PARENT CHILDREN MODEL USING FCM TO STUDY DROPOUTS IN PRIMARY EDUCATION

*W.B.Vasantha Kandasamy and P. Promodh*

It is surprising to see in India that there are over 40% dropout in the primary education alone. What can be the causes attributed to this? Who is responsible for it? In this paper we study how parents is one of the causes for the increase in dropouts in primary schools. One of the reasons for studying the dropout parent-children model is that parents are the major cause for the dropouts of children as they are not only non-cooperative but think of the day income and never of the future of the child and the harm they to the child. In a way it is not only the selfishness of the parents but also the unawareness on the parts of parents to know how they are treading towards poverty.

Taking 10 attributes related to the parents several experts opinion were sought. The experts were teachers, parents, educationalists and NGO's who work for the prevention of child labour. (as most of the drop out are child laborers in bars, petty shops or servers or helpers). An analysis was carried out using FCM and the hidden pattern of the FCM indicated the following conclusions.

---

**All Rights Reserved.** This work is Copyright © W.B.Vasantha Kandasamy and P. Promodh. 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](mailto:vasantha@iitm.ac.in)  
web: <http://mat.iitm.ac.in/~wbv>

(1) the uneducated parents must be made aware of the value of the education and the great injustice they do to the child by stopping it from school. From the study of the problem using FCM the dynamical system of this model gave the following conclusions

- (i) Poor economic condition is one of the causes of the dropout in primary school.
- (ii) Uneducated parents who are unaware of the value of education.
- (iii) The medium of instruction is very alien to the students
- (iv) In poor society the behavioral change mars the child's liberty and does not feel free so not inclined to attend school.
- (v) High fee structure.

---

**All Rights Reserved.** This work is Copyright © W.B.Vasantha Kandasamy and P. Promodh. 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](mailto:vasantha@iitm.ac.in)

web: <http://mat.iitm.ac.in/~wby>