

Summary of Minor Research Project-2009

1 . UGC Reference No.	F.47-427/08 dated 18 Dec. 2008
2. Period of report: from	1 st April 2008 to 31 st March 2010
3. Title of research project :	“FUZZY RULED BASED RECOGNITION OF HANDWRITTEN MARATHI NUMERALS”
4. Name of the Principal Investigator	PRAFULLA EKNATH AJMIRE
5. Effective date of starting of the project	September 2008
7. Grant approved and expenditure incurred during the period of the report:	Rs. 75,000/-
a. Total amount approved	Rs. 75,000/-
b. Total expenditure	Rs. 78,049.50/-
8. Work done so far and results achieved	Published a Paper entitled “Handwritten Marathi character (vowel) recognition”, in the Bioinfo Journal of Advances in Information Mining, Vol 2., Issue 2 pp:11-13,2010.

Entitled “Fuzzy Rule Based Recognition of Handwritten Marathi Numerals”

Marathi is an Indo-Aryan language spoken by about 71 million people mainly in the Indian state of Maharashtra and neighbouring states. Marathi is also spoken in Israel and Mauritius. Marathi is thought to be a descendent of Maharashtri, one of the Prakrit languages which developed from Sanskrit. Marathi first appeared in writing during the 11th century in the form of inscriptions on stones and copper plates. From the 13th century until the mid 20th century, it was written with the Modi alphabet. Since 1950 it has been written with the Devanagari alphabet. Handwritten numerical string recognition has been a topic of intensive research in recent years due to its large number of potential applications such as bank cheque processing, postal code recognition and form processing application. Segmentation and recognition of Handwritten isolated numeral is proposed in this research work. This will be useful to mail sorting, bank check reading, web application, e-governance, ITeS, ICT, e-learning,

BPO, digitization of old document, forms processing in administration and insurance. These applications are of great economic interest, each of them concerning millions of documents. Aim is to use various methodologies of numeral recognition for complete word recognition so that it will lead to efficient text recognition in future.