**EDITOR: K. S. Fu with contributors by T. M. Cover, E. Digay, K. S. Fu, A. Rosenfeld, J. C. Simon, T. J. Wagner J. S. Weszka, J. J. Wolf**

DIGITAL PATTERN RECOGNITION
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The book is dealling with the results and the main developing directions in the last years of an heterogenous field known under the name of "Digital Pattern Recognition" (within the Artificial Intelligence Category).

This monography, edited by K. S. Fu a very well known name for his works published so far, includes several chapters, each of them being written by one or two distinquished experts on that subject.

The first chapter concerns the main two approaches to Pattern Recognition, statistic and syntactic methods and the nature of problems which they are applied to.

The next three chapters deal with basic techniques in pattern recognition. A series of quantitative estimations of the training process within the statistic method and quantitative treatment of complexity notion for bidimensional formas are presented. Then, clustering analysis techniques are given in extenso. There are shown classic techniques, as well as dynamic clusters and adaptive distance dynamic cluster method.

Chapter IV provides an overview, illustrated by a great number of examples, of the synthactic (linguistic) pattern recognition. Languages are used to describe patterns and syntax analysis procedures which are employed as recognition procedures.

Methods for the selection of pattern primitives are presented and problems for further research are suggested.

The last two chapters deal with applications; namely picture recognition and speech recognition and understanding.

**I. Satran**