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matrix of the pattern is calculated and the new function is derived from the shift of the position, and the necessary bits to represent this function are only N (for  $N \times N$  mesh of original pattern).

The similarity between the unknown character and the standard characters is evaluated by the cross-correlation coefficient between their new functions.

The results are that the discrimination of typewritten numerals and alphabets is almost perfect regardless of their position, inclination and the addition of a little nose.

UDC 681.142

## A METHOD OF AUTOPROGRAMMING

-H. Takahashi

This paper describes a method of compilation for the basic NEAC 2203 computer. This method which is called a compiler is composed of two stages: In the first stage, the source program is translated into the machine language, and the absolute addresses are assigned to variables, allies, subroutines, etc. In the second stage, the first stage output perforated on the paper tape is fed into the computer storage, and the absolute addresses are assigned to labels of the statements. Then, the computation follows immediately.

This compiler is available for calculation of the real number in the flolating point decimal number system and of the integer in the fixed point decimal numbe system. This compiler is very useful for saving both labour and time in programming.

## Errata

Spatial Distribution Characteristics of Atmospheric Refractive Index from Helicopter and Kytoon

By M. FUKUSHIMA, H. IRIYE and K. AKITA

Jour. Radio Res. Labs., 9, No. 45, Sept., 1962

p. 372 The 2nd line  $(T_D, T)$  should read  $(T_D, T_W)$ .

The 20th line  $(T_D, T)$  should read  $(T_D, T_W)$ .

p. 377 The 2nd line  $(T_D, T)$  should read  $(T_D, T_W)$ .

p. 382 The 4th line It was be should read It may be.

The 14th line extraordinary should read extraordinarily.

The 16th line 900 too 1500 m should read 900 to 1500 m.