

## Recognising Geometric Patterns - Example 9

Peter Fletcher, 10th September 2009.

### The problem

Figure 1 shows an image containing two overlapping crosses.

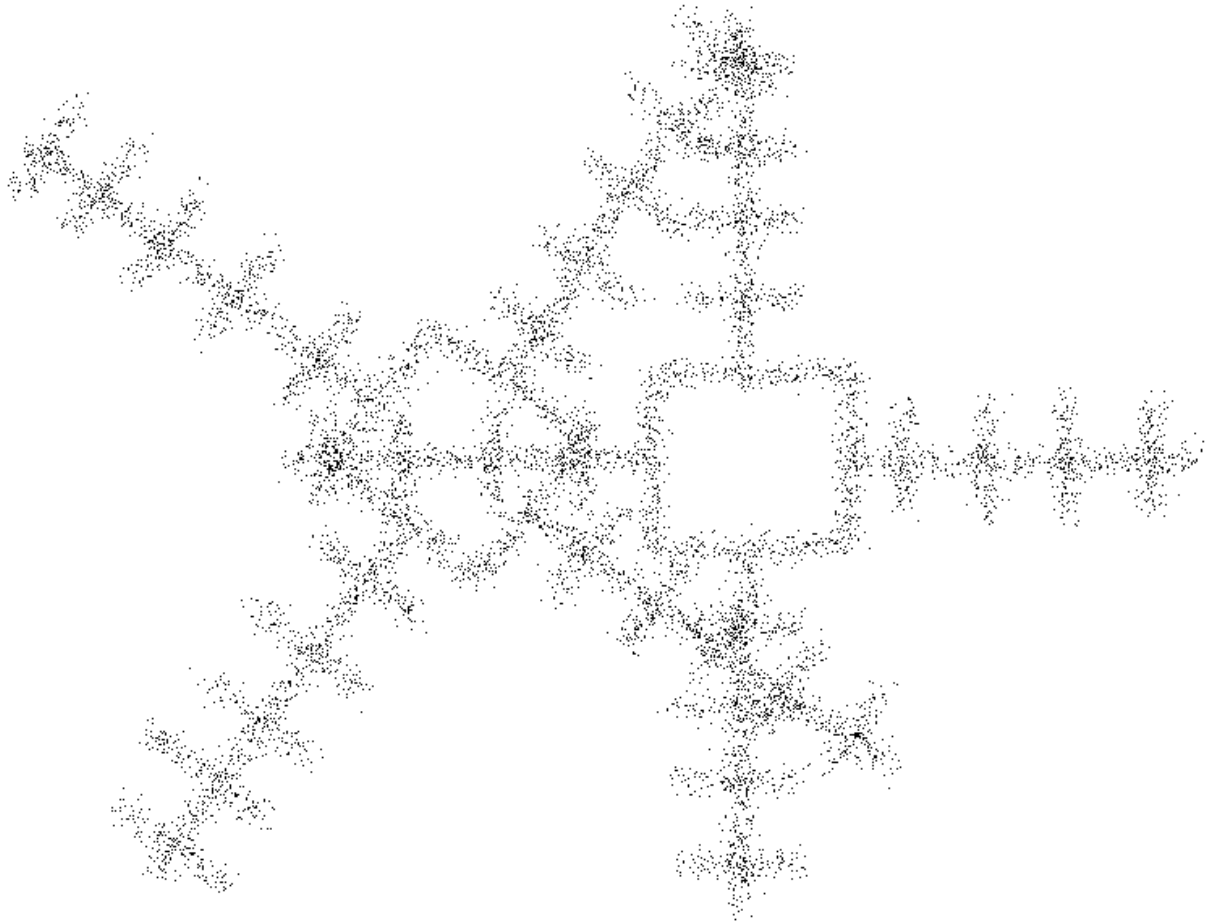


Figure 1: the original image.

The following pages show the results of the program. See example 8 for an explanation of the use of subsymbols in crosses.

### The results of the program

The program successfully finds the two crosses. Figure 2 shows the result of the program, with one cross highlighted, and figure 3 shows the same run of the program but with the other cross highlighted.

The display conventions are as in example 8. Note in particular that the correct subsymbols are identified (the green rectangles concentric with the crosses).

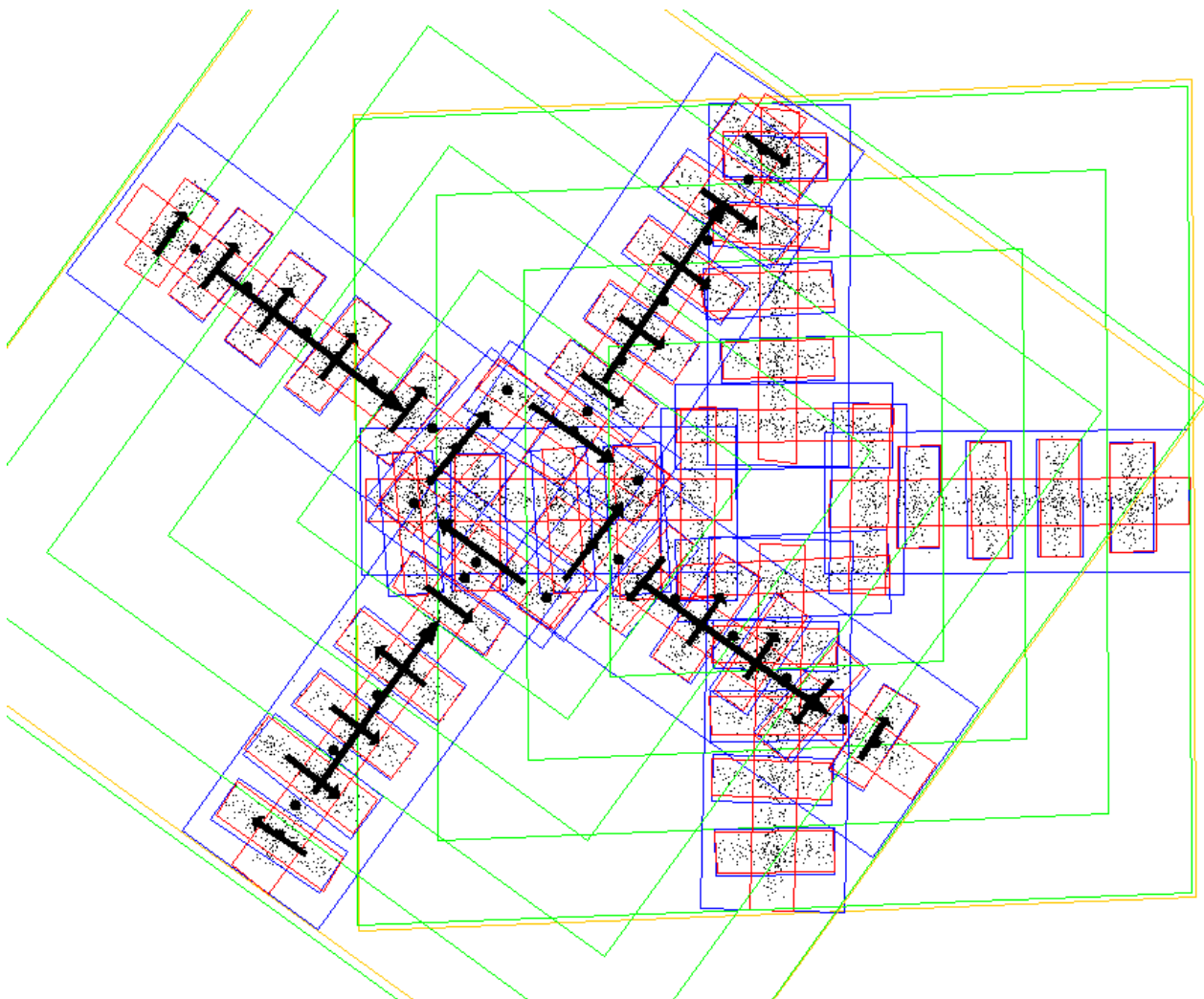


Figure 2: one cross found by the program.

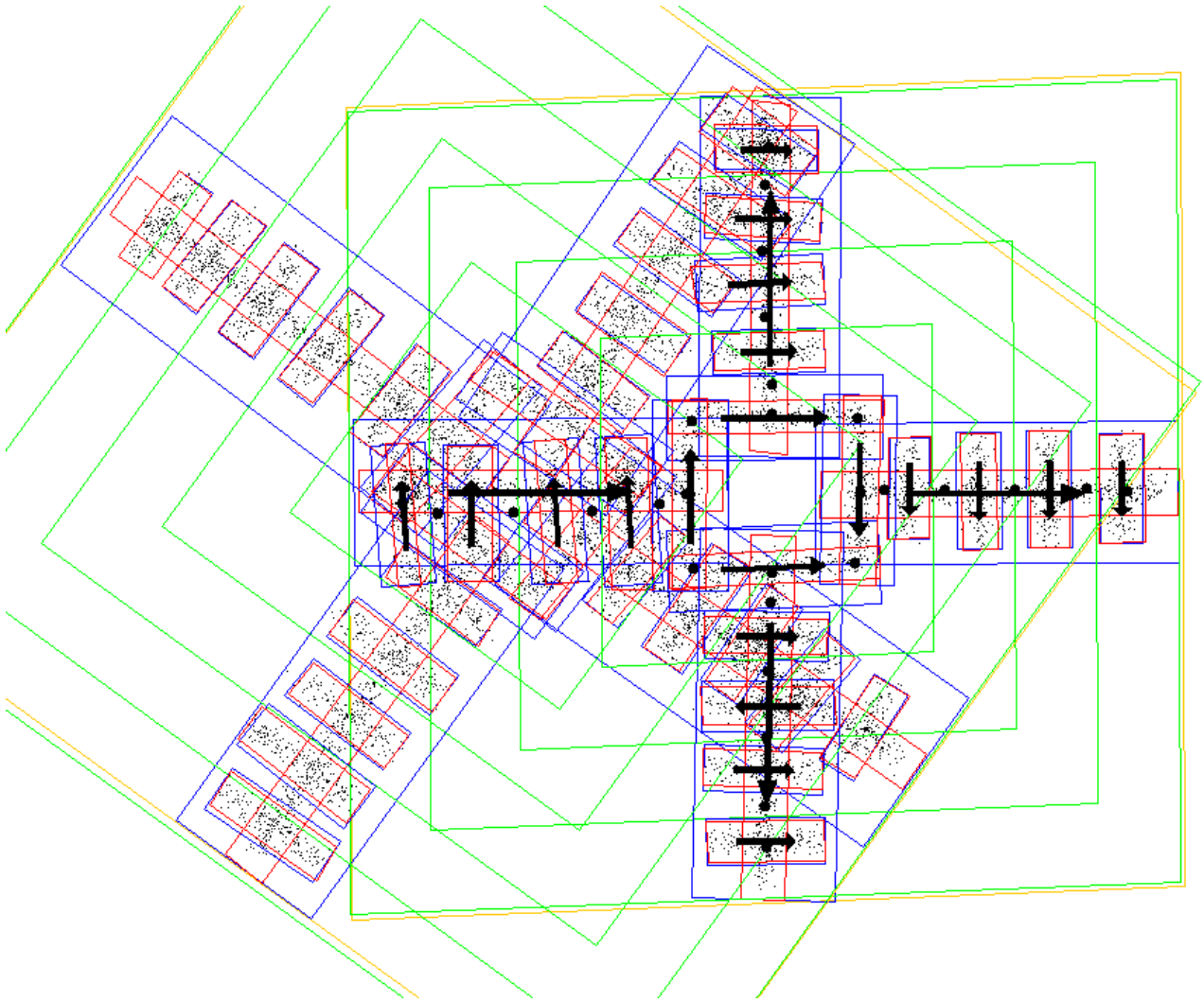


Figure 3: the other cross.