

Recognising Geometric Patterns - Example 10

Peter Fletcher, 14th September 2009.

The problem

Figure 1 shows an image containing three overlapping cross patterns.

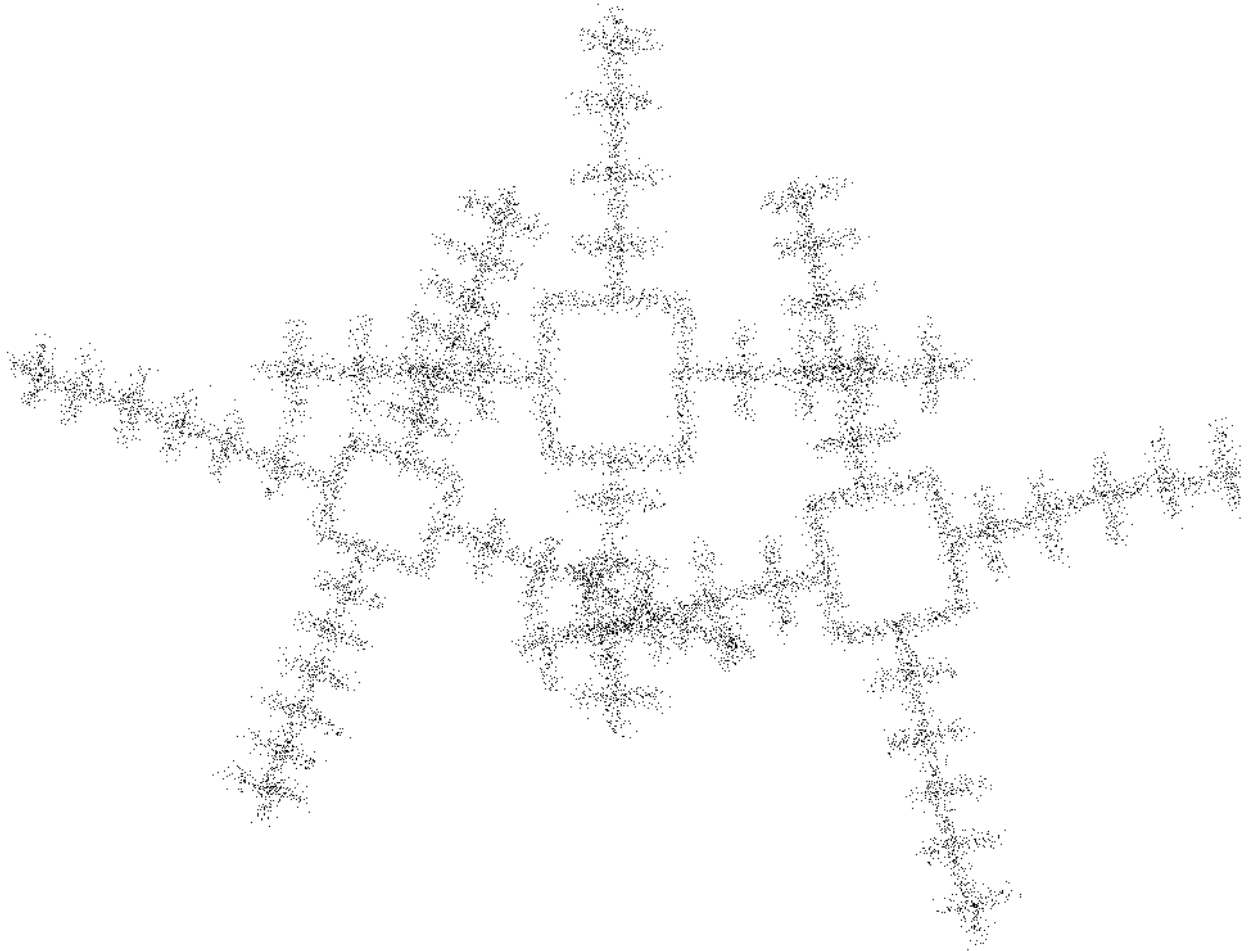


Figure 1: the original image.

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 three crosses. Figure 2 shows the result of the program, with one cross highlighted, and figures 3 and 4 show the same run of the program but with the other crosses highlighted

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

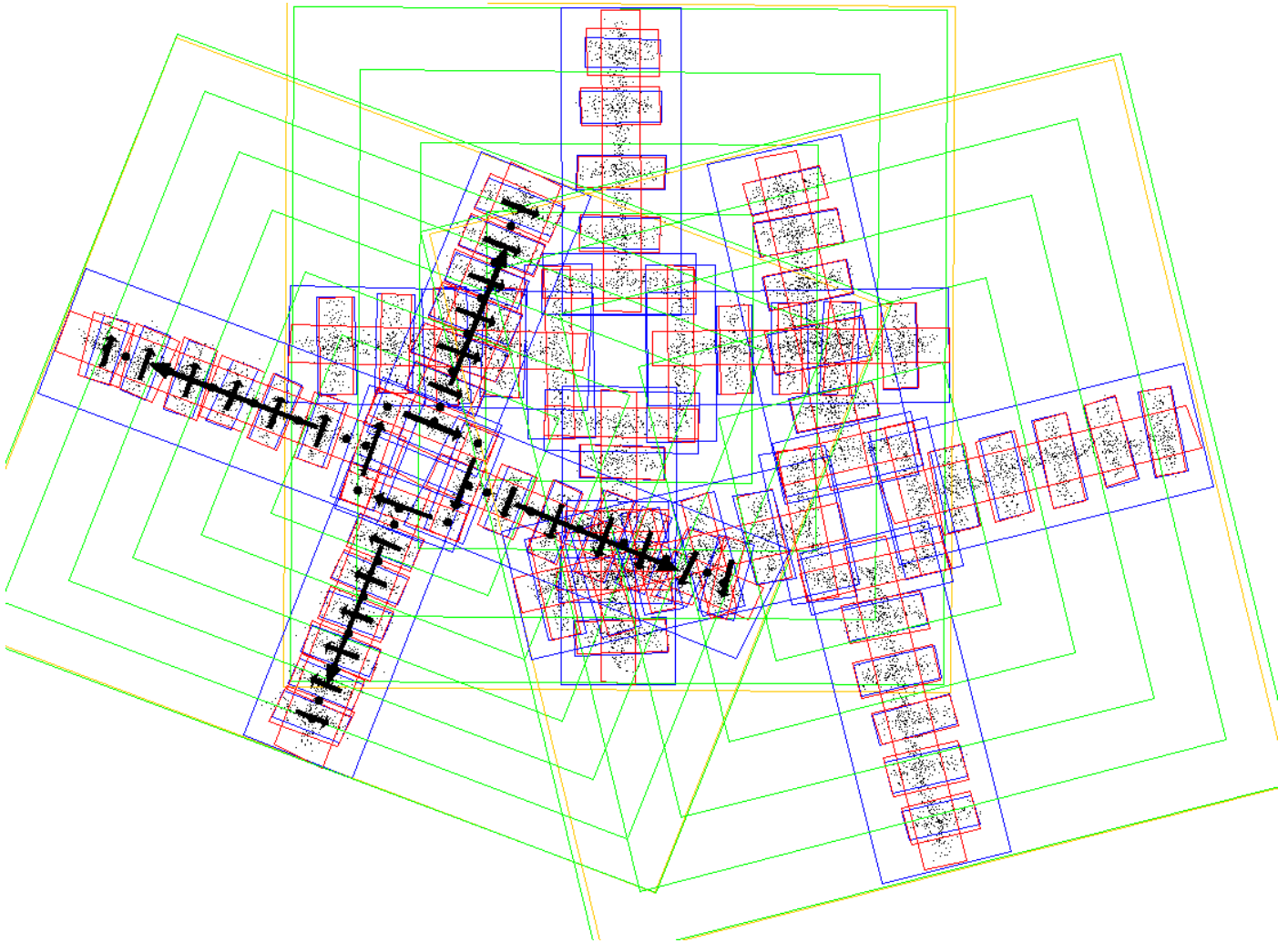


Figure 2: one cross pattern found by the program.

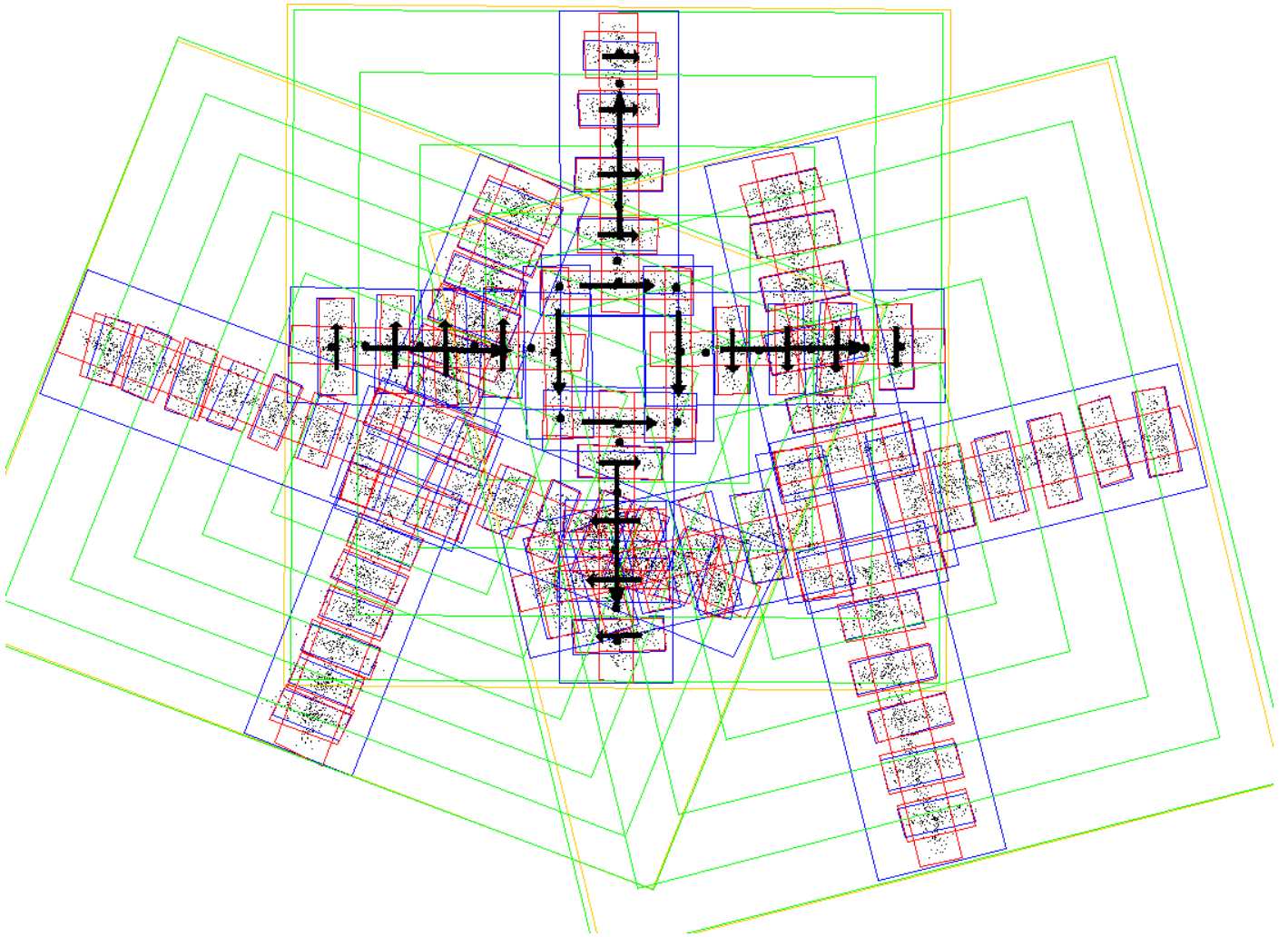


Figure 3: a second cross pattern.

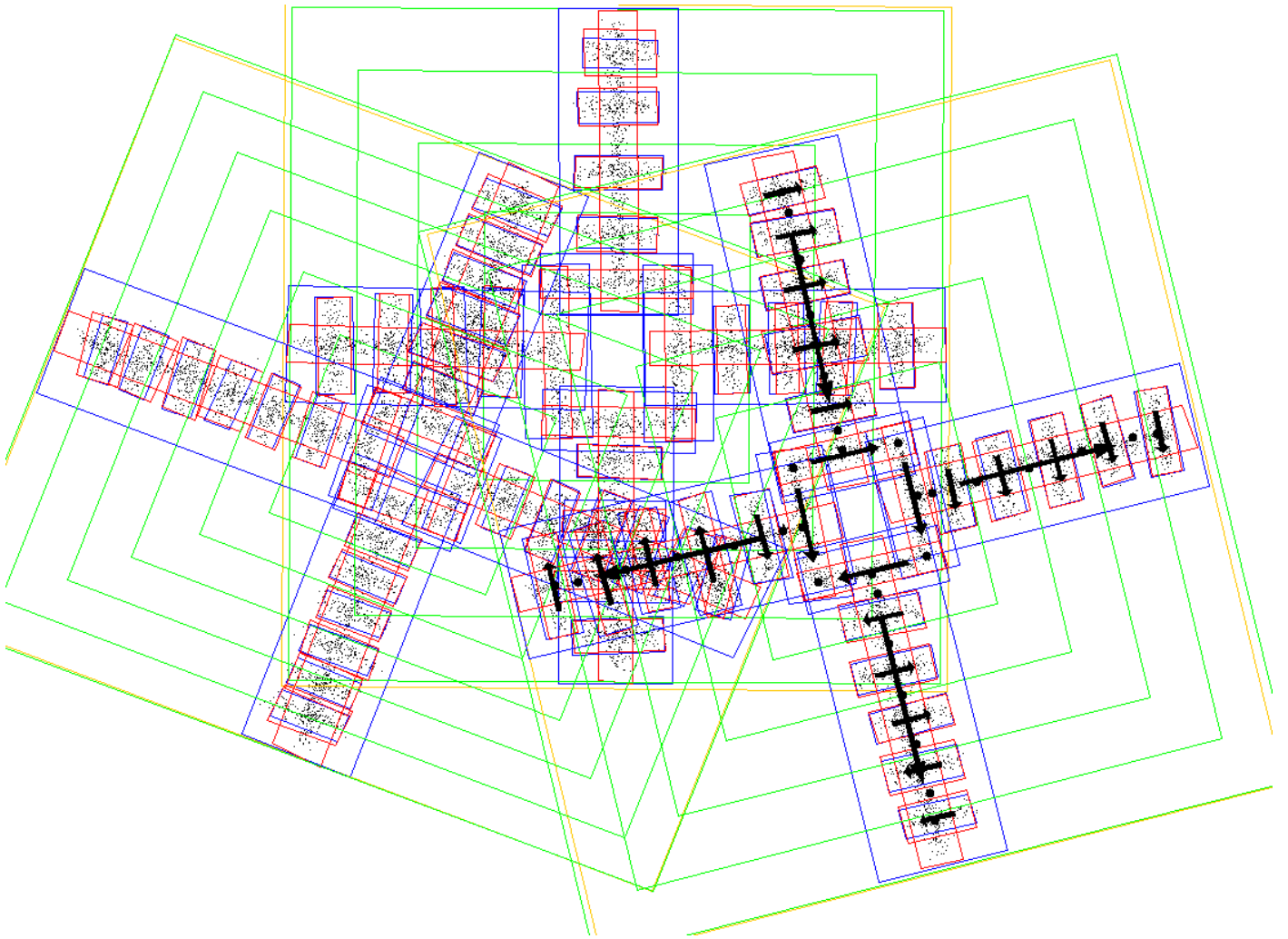


Figure 4: a third cross pattern.