a. Cylindrical   b. Conical   c. Countersunk

d. Counterbore   e. Bowl-shaped   f. Bottle-shaped

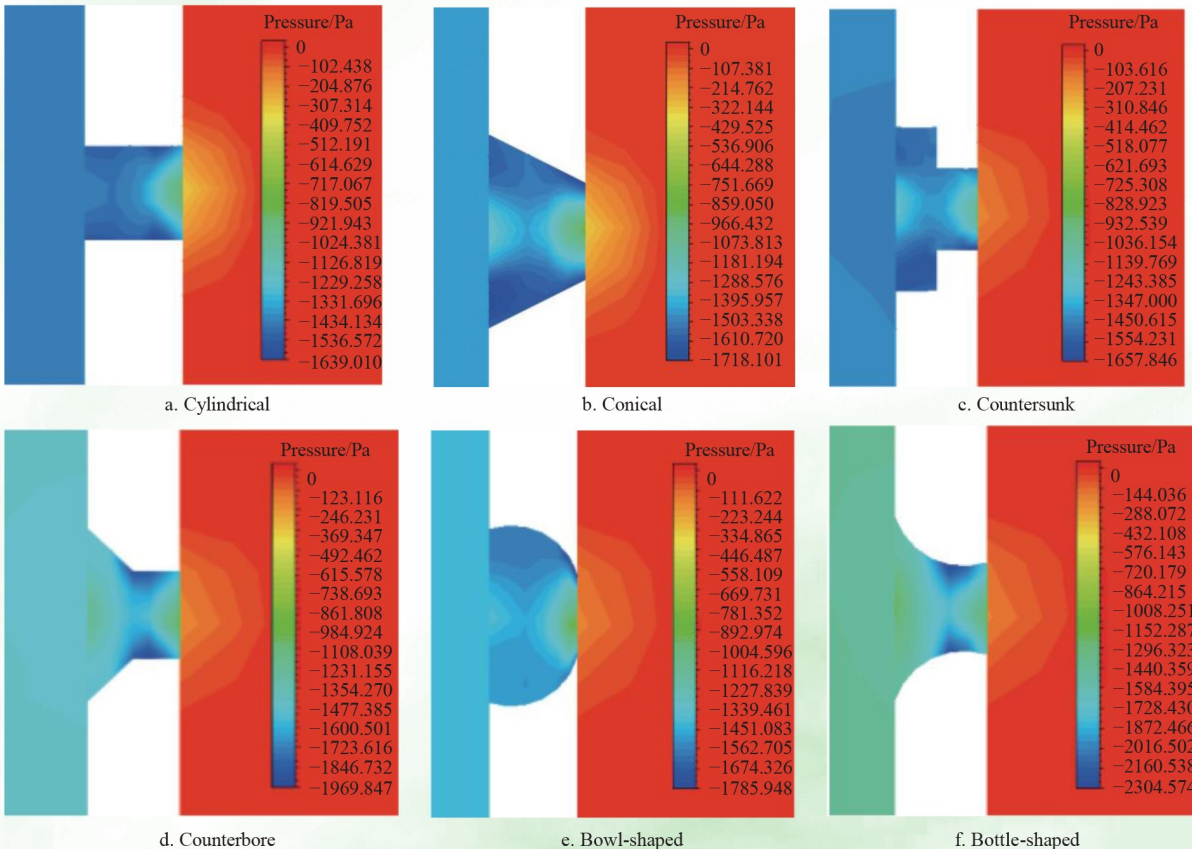**Figure 6**   **Flow field pressure contour at the suction hole surface with different hole types**

a. Cylindrical   b. Conical   c. Countersunk

d. Counterbore   e. Bowl-shaped   f. Bottle-shaped

Figure 7   **Pressure contour of axial surface of No.1 hole with different hole types**
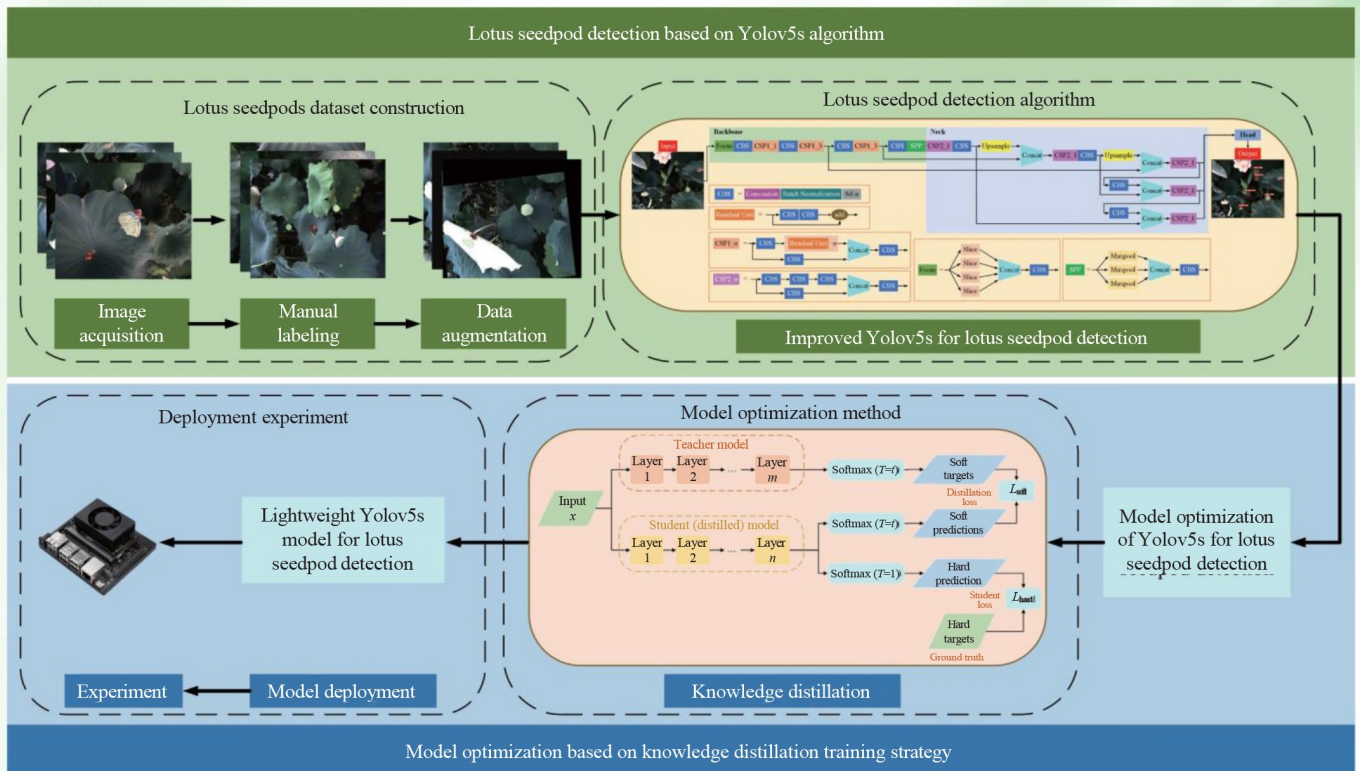
Figure 3　Overall technical route of the proposed lotus seedpod detection algorithm

a. Before improvement

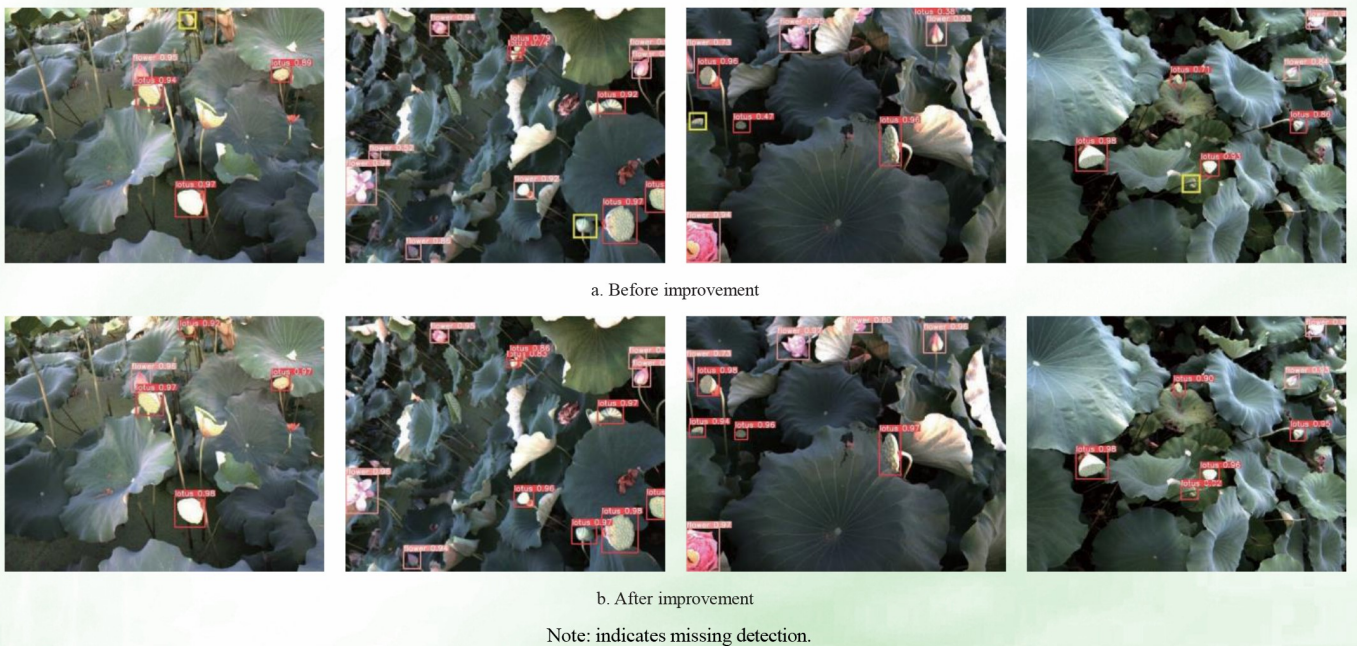b. After improvement

Note: indicates missing detection.

Figure 12　Comparison of actual detection effect before and after model improvement