Adaboost

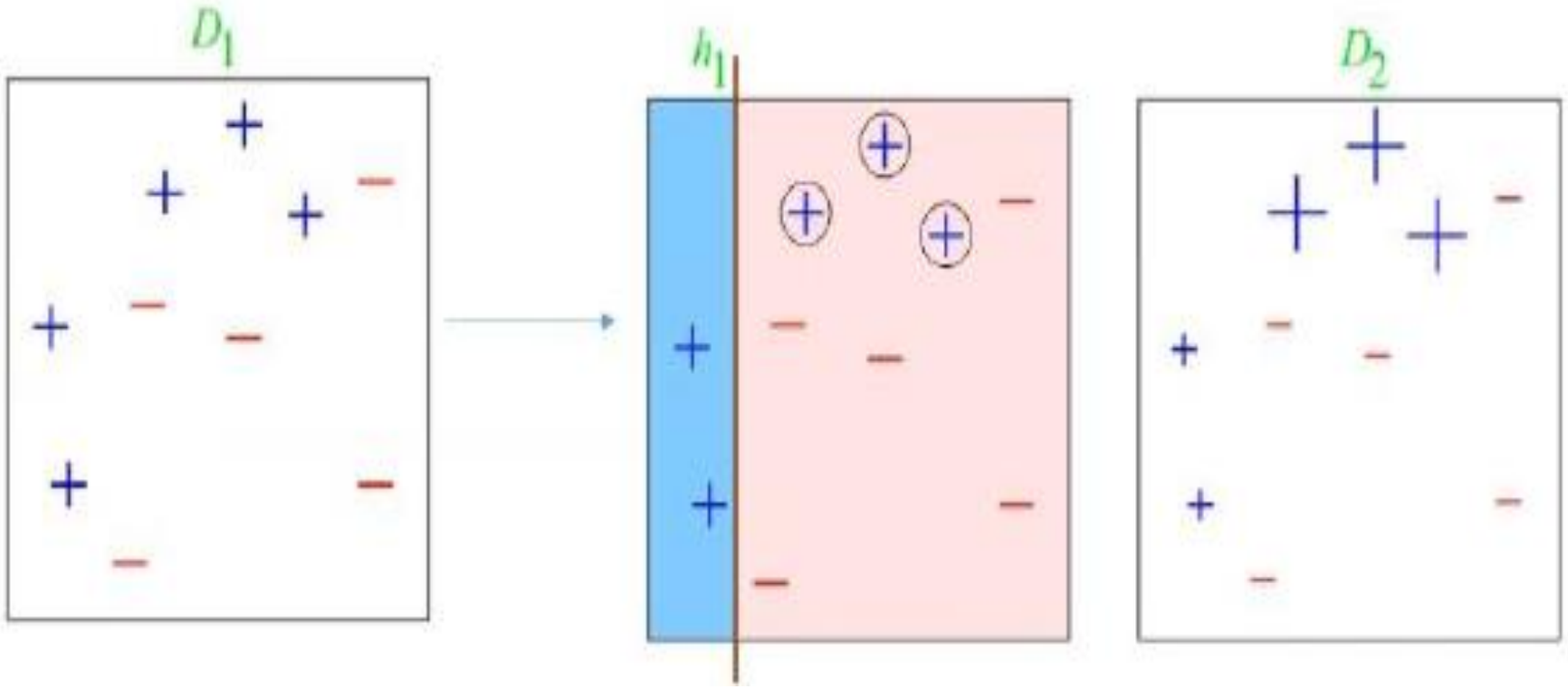
Adaboost

- Single model vs Bagging vs Boosting

Adaboost

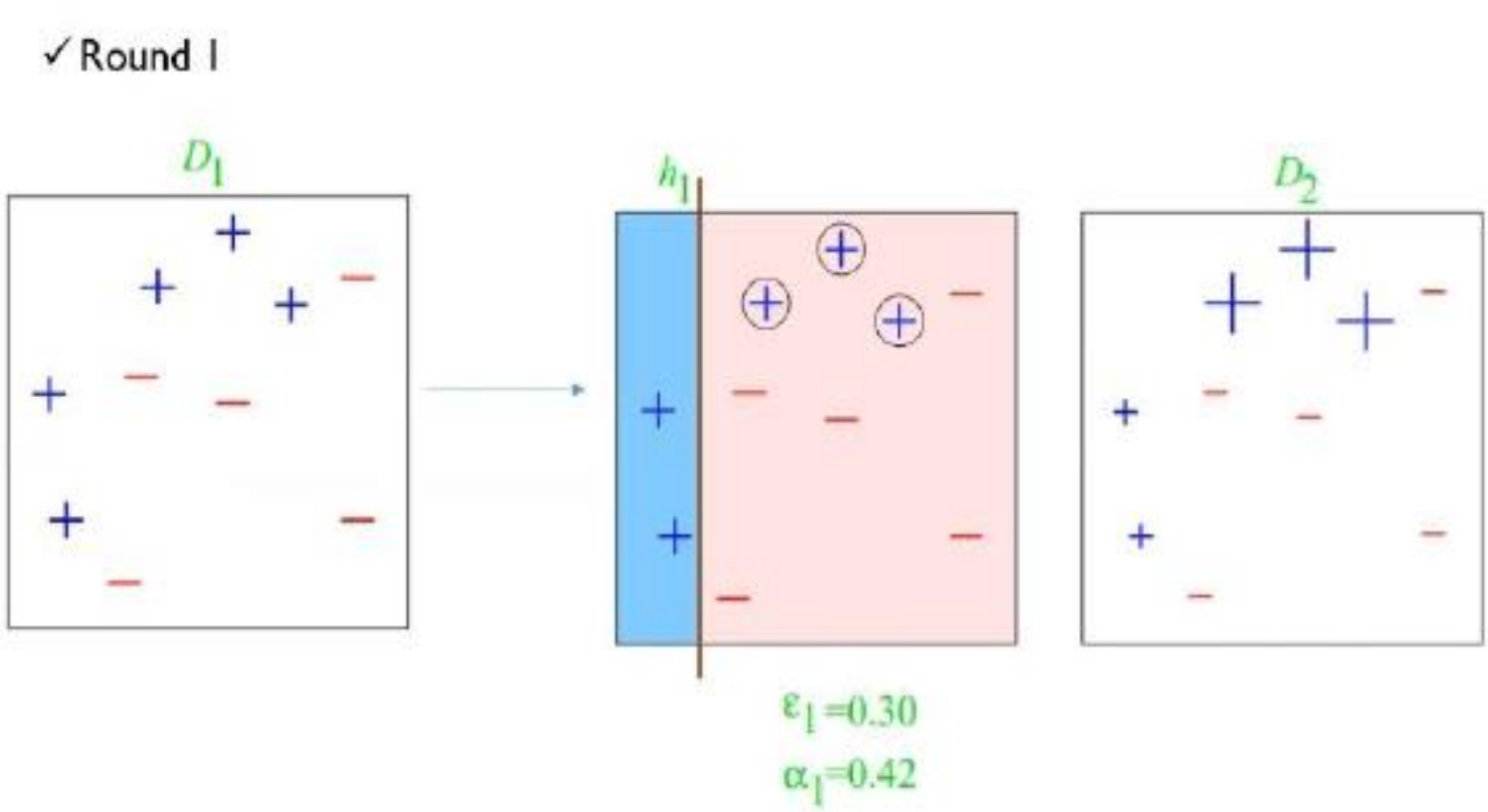
- Example 1

✓ Round 1



Adaboost

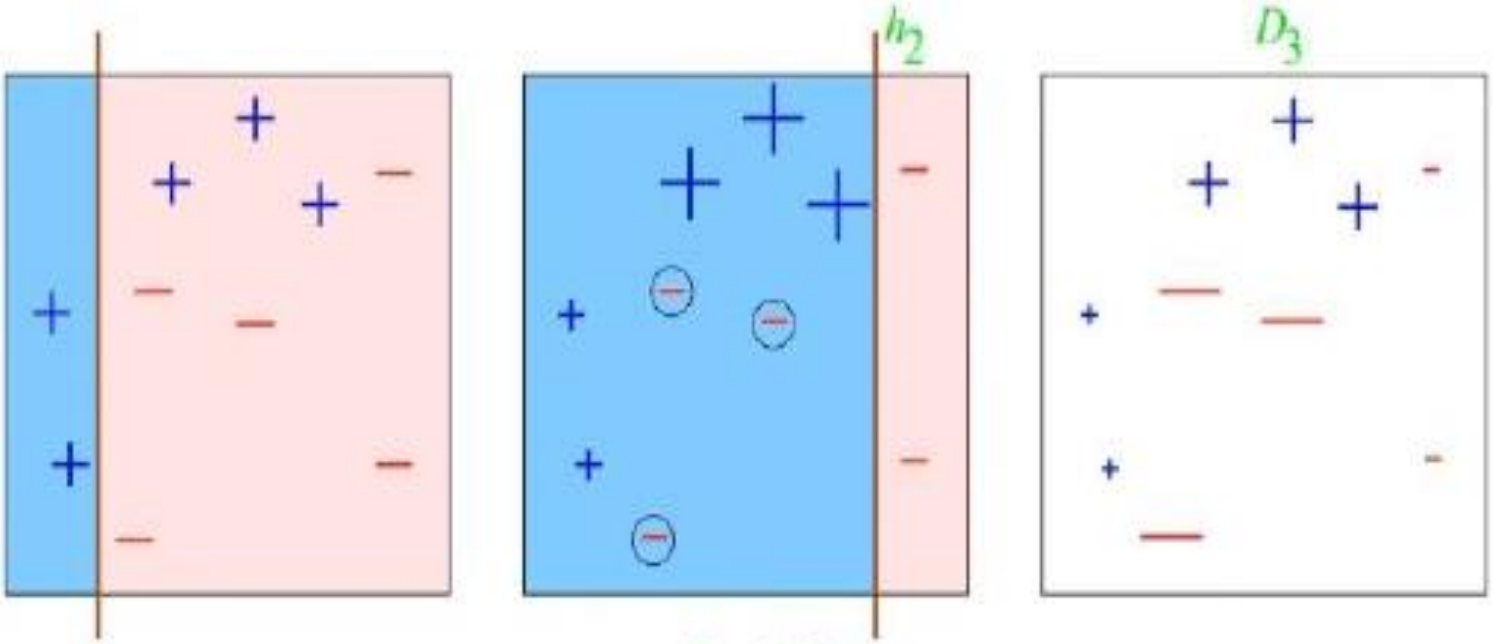
- Example 1



Adaboost

- Example 1

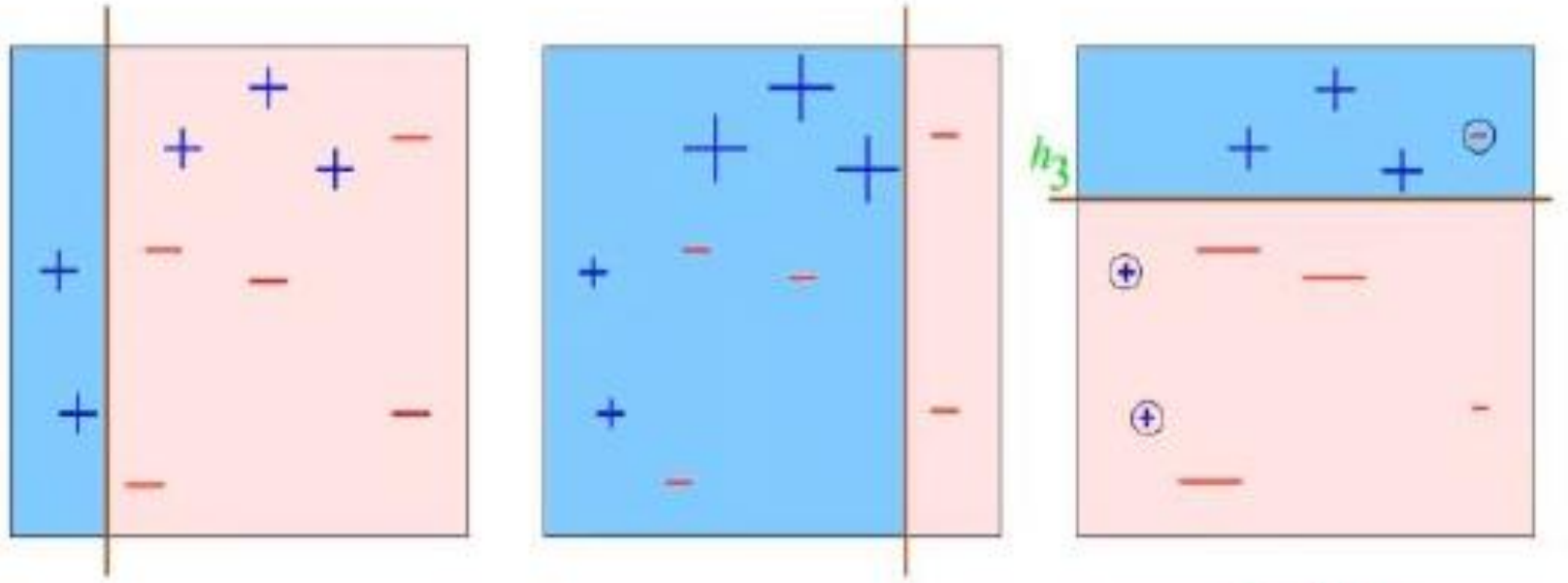
✓ Round 2



Adaboost

- Example 1

✓ Round 3



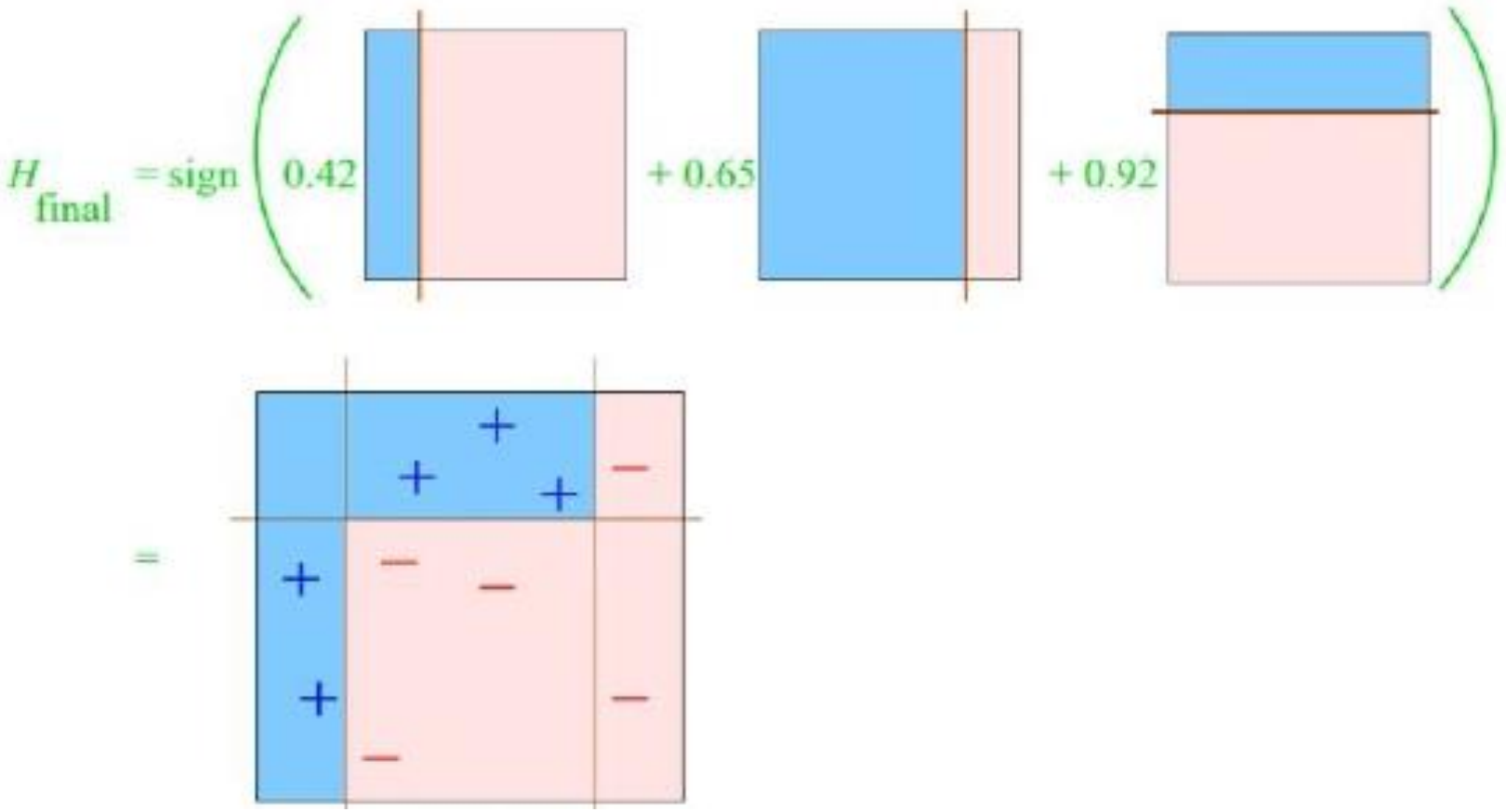
$\varepsilon_3 = 0.14$

$\alpha_3 = 0.92$

Adaboost

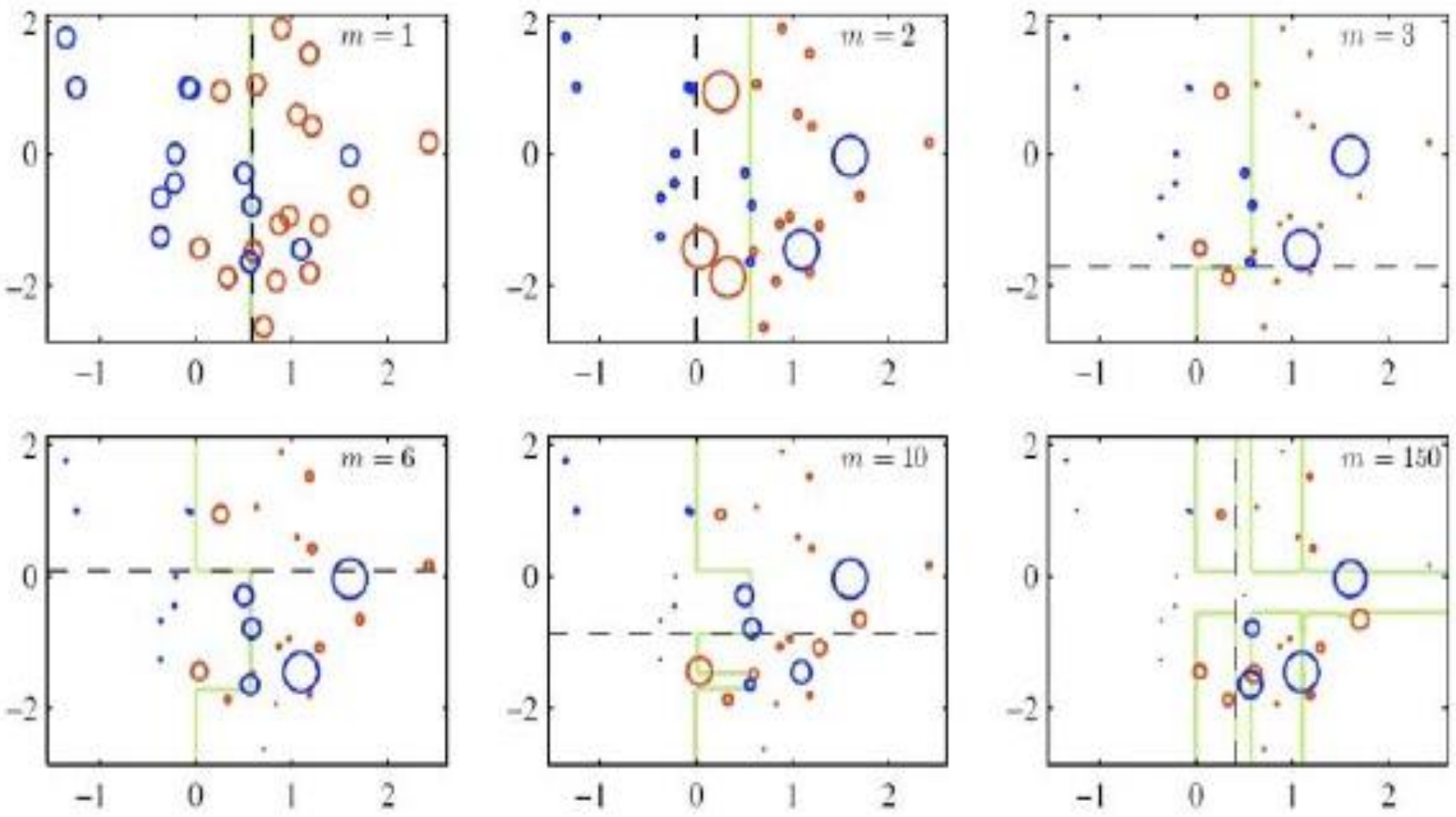
- Example 1

✓ Final classifier



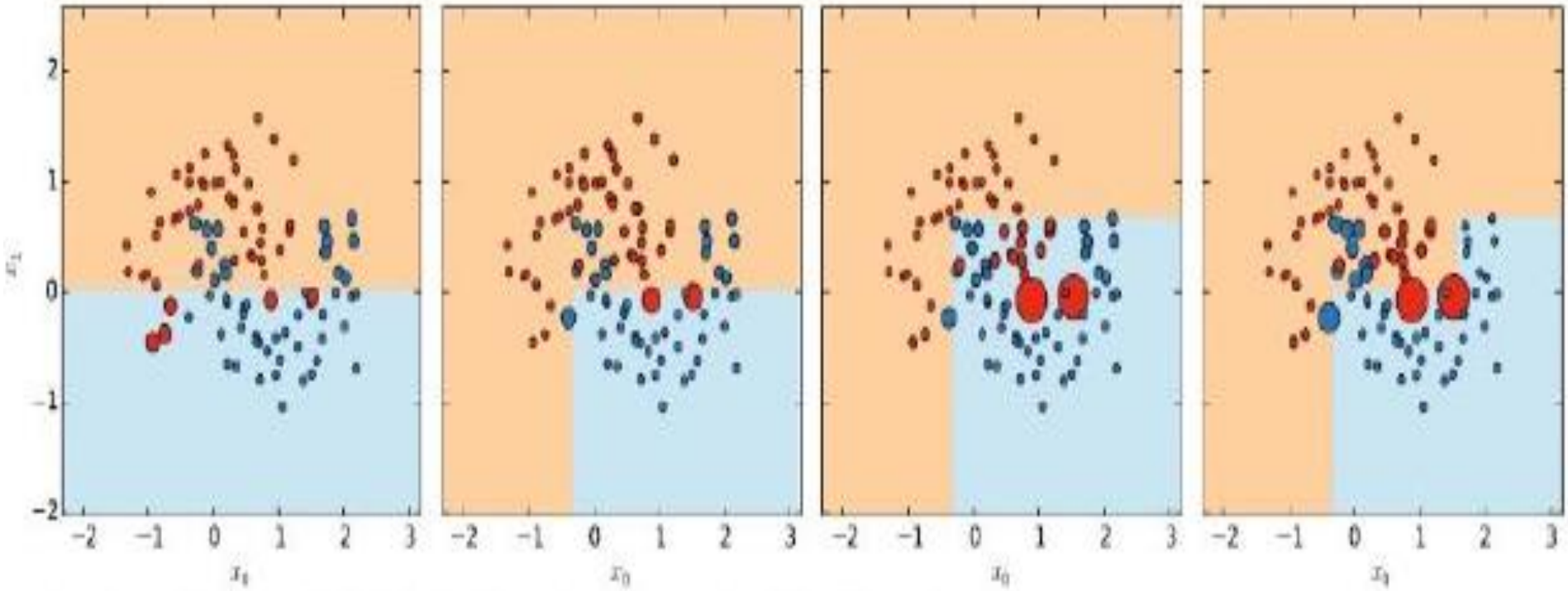
Adaboost

- Example 2



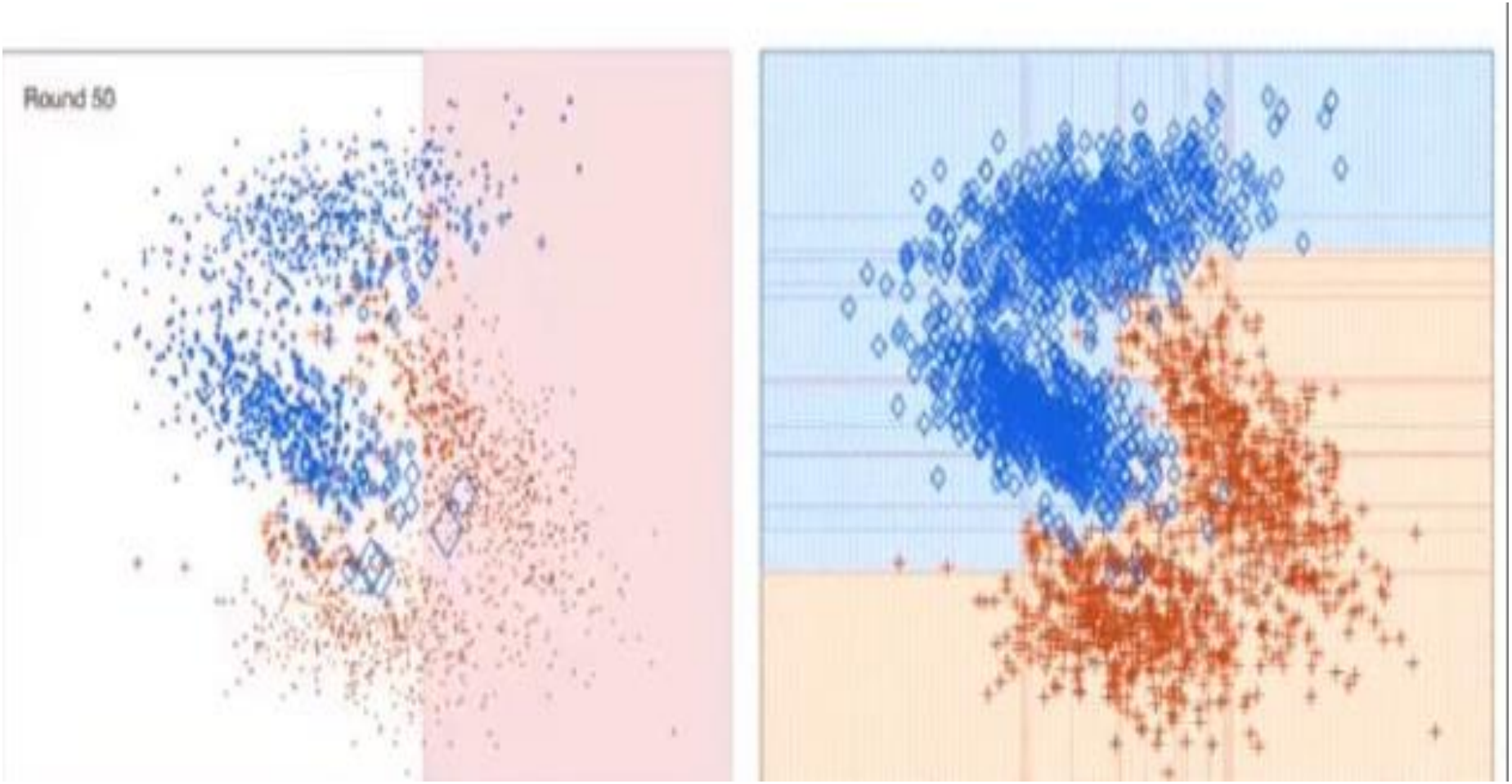
Adaboost

- Example 3



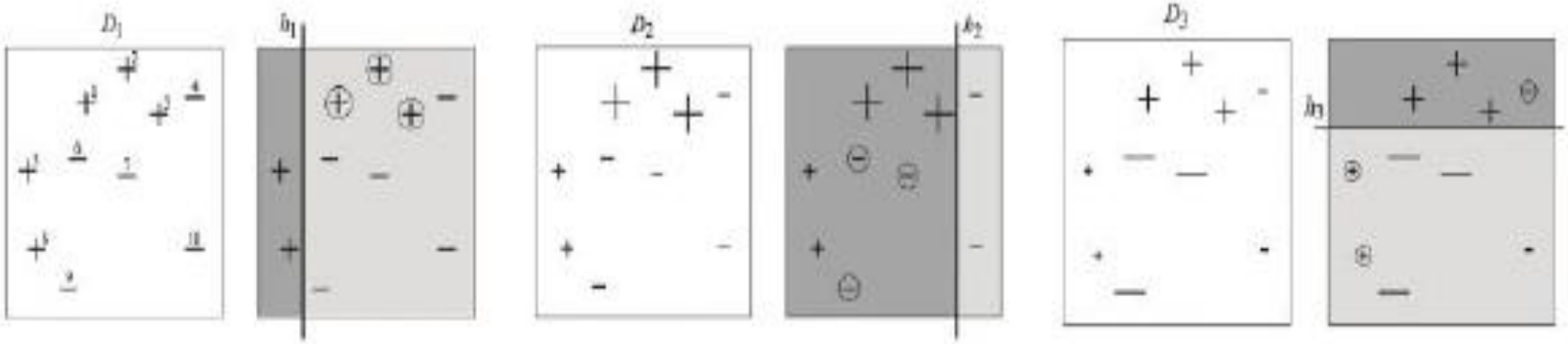
Adaboost

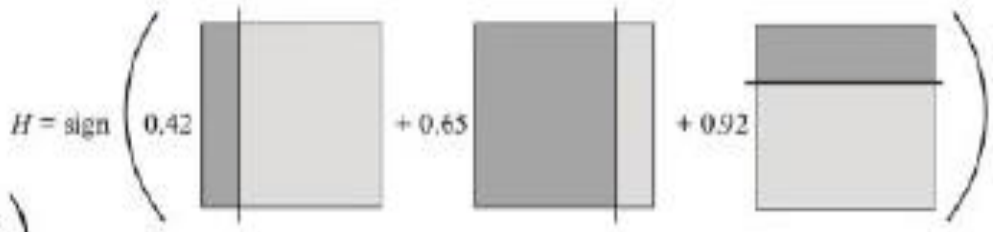
- Example 4



Adaboost

- Example 5





$$H(x') = sign\left(\sum_{t=1}^{T} \alpha_t h_t(x')\right)$$