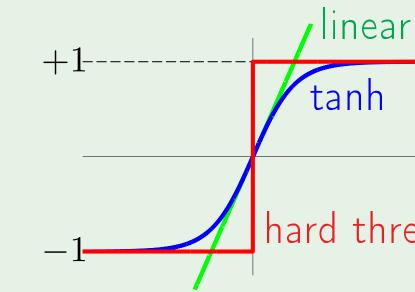
Neural-network regularizers

Weight decay: From linear to logical

Weight elimination:

Fewer weights \implies smaller VC dimension

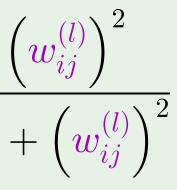


Soft weight elimination:

$$\Omega(\mathbf{w}) = \sum_{i,j,l} \frac{1}{eta^2}$$

ⓒ 🕂 Creator: Yaser Abu-Mostafa - LFD Lecture 12

hard threshold

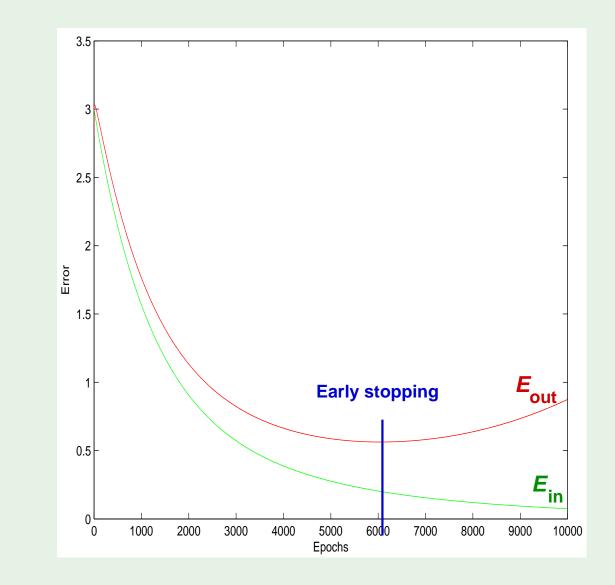


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Early stopping as a regularizer

Regularization through the optimizer!

When to stop? validation



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