

# Stochastic Approximation

Cost function.  $J(\mathbf{w})$

Optimal solution.  $\mathbf{w}^{opt}$

Update procedure.  $\mathbf{w}_{t+1} = \mathbf{w}_t + \lambda_t d(\mathbf{w}_{old})$

Convergence.  $\mathbf{w} \rightarrow \mathbf{w}^{opt}$

Criteria.  $E[d(\mathbf{w})] = \nabla J(\mathbf{w})$

- $t \rightarrow \infty$
- $\lambda_t \rightarrow 0$
- $\sum \lambda_t = \infty$

$$\lambda_t = \frac{1}{t} \quad \text{or} \quad \lambda_t = \frac{1}{\sqrt{t}}$$

Caveat. Local minima

# Stochastic Approximation

**Yijin Wang**



## **Stochastic Approximation:**

## Reviewing **Stochastic Approximation**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Stochastic Approximation**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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