

Curriculum Learning

Teacher-Guided Curriculum^a

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^aBased on a blog by Lilian Weng

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- ▶ Idea: Expert teacher can use its own knowledge to create a curriculum
- ▶ Question: who or what is an expert teacher?

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- ▶ Possible answers: "Common sense" methods, real-life expert decisions, a learner learning how to construct a curriculum, ?

The Teacher-Student Setup [Matiisen et al., 2017]>0

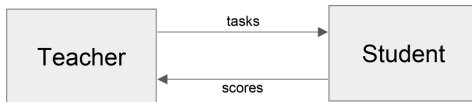


Figure: Teacher-Student interaction

The Teacher

- ▶ The teacher observes the student's reward x_t
- ▶ The action space consists of all instances i
- ▶ The teacher's reward is the change in the agent's reward:

$$r_t = x_t - x_{t-1}$$

The Ideal Result [Matiisen et al., 2017] > 0

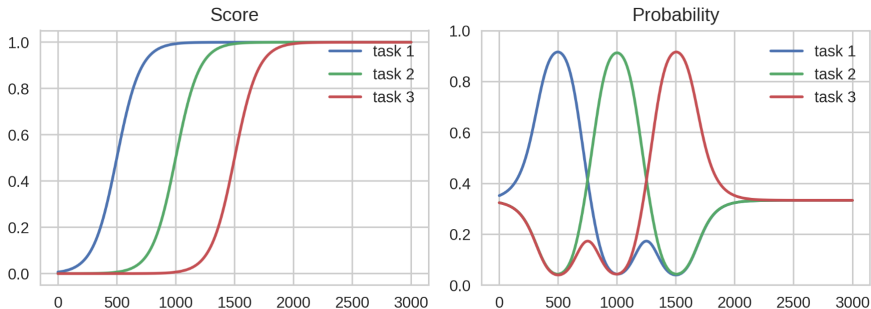


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