2025/04/11 06:07

Paradigm	Decade	Theory	Key concepts
(Connectionism) <sup>1)</sup>	1880 - 1900	<b>Connectionism</b> (Thorndike)	- learning is incremental strengthening of the S-R <sup>2)</sup> association
			- S-R associations are strengthened through repetition
			- outcome of a S-R event can strengthen or weaken the connection
			- potential to learn leads to frustration if not satisfied
Behaviorism	1900 - 1910	Classical conditioning (Pavlov)	- learning is a <b>visible change</b> in one's behavior
			- learning is manifested in a <b>natural reflex</b> reaction on an associated environmental stimulus
			- emotional response can also be learned or conditioned
	1910 - 1920		
	1920 - 1930	Contiguity theory (Guthrie)	- behavior is formed by a <b>series of movements</b> which are learned through S-R associations
			- a close <b>temporal relationship</b> between S and R is necessary for learning to occur
			- learning occurs on <b>first experienced instance</b> of the stimulus
			- reinforcements (reward or punishment) do not influence the strength of this connection

Paradigm	Decade	Theory	Key concepts
Neo-behaviorism	1930 - 1940	Sign learning (Tolman)	- suggests studying behavior on the molar level (whole, purposeful, goal-directed behaviors)
			- learning is acquisition of knowledge through <b>meaningful behavior</b> , not mechanical moves
			- rewards or punishments can only be used as motivators for performance, not learning
			- animals are not simple mechanisms, but intelligent organisms capable of <b>cognitive processes</b>
		Drive reduction theory (Hull)	- <b>mathematical formulas</b> attempting to explain behavior and the likelihood of its appearance
			- <b>drive</b> (a stimulus in form of a biological need) results in behavior in order to <b>satisfy</b> it
			- reinforced S-R learning through the reduction of a biological drive
			- <b>cognitive factors</b> need to be taken into account when explaining human learning
	1940 - 1950		
	1950 - 1960	Operant conditioning (Skinner)	- <b>reinforced learning</b> of <b>new behaviors</b> , not just shaping reflexes
			- different reinforcement intervals have different effect
			- complex behaviors are learned through more simple ones
		Stimulus sampling theory (Estes)	- a <b>statistical learning theory</b> ; set of formulas and axioms
			- S-R association is learned in a <b>single trial</b> ; learning results in accumulated S-R associations
			- reinforcement has to do with the performance, not with learning
			- later included <b>memory</b> as a factor in his theory

Connectionism is not considered a learning paradigm, but is mentioned due to its influence on behaviorist ideas

stimulus-response

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Last update: 2023/06/19 15:49

