《Cover letter - HKU》

YKY

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$1 \quad \mathbf{My} \quad \mathbf{CV}$

- In 2019 I discovered that logic structure can be imposed on deep learning by using **symmetric** neural networks, which emulate the permutation-invariance of logic propositions.
- In 2017 I discovered a connection between AI and quantum mechanics: the learning problem in AI is equivalent to solving the Schrödinger equation. But the key idea leading to this insight, ie. the Hamilton-Jacobi-Bellman equation, is already well-known in the literature.
- around 2015 I turned towards neural networks for AGI, at the time "deep learning" was not yet very popular
- 2012 my first and only published paper so far: "Fuzzy-probabilistic logic for common sense", in AGI Conference, Oxford.
- from 2004 till 2014 my research focused on classical logic-based AI and I implemented several logic engines
- around 2001-2003 I self-taught neuroscience
- 我在 GitHub 上有不少项目,包括:
 - a few logic engines (in Lisp, Scala, Clojure, etc)

- implementation of rete algorithm (cloned from others and improved by me)
- genetic algorithm for learning logic rules
- simple deep learning experiments (using TensorFlow)
- neural network experiments (C++)
- a book draft, "Introduction to Strong AI" (Latex)
- symmetric neural network tests (TensorFlow & python code)
- 2004 graduated from Hofstra Univ, NY, USA, with BA degree in computer science, chemistry, and English
- 1994 majored in Computer Science in CUHK
- 我细个 12 岁时玩电脑已经几叻
- 1971 Born

0 Background

References

欢迎提问和讨论 ②