Paper Reading Template

AI-For-NLP Course Group

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| Date | 11/11/2020 | |
| Title | Computing machinery and intelligence | |
| Author |  | |
| Question/Task | Description | You Answer |
| 1. Classify this paper | Is this paper pragmatic or theoretical?  Is this paper on science or engineering? | Theoretical on science |
| 2. Brief Summary | Using the as short as possible to summarize the paper content. | Discuss the possibility of letting machine be intelligent and list others’ arguments and researches regarding to this topic. |
| 3. Outline | Outlining the content as multiply parts.  For example, for one paper, you may outline the content as following:  1. Background  2. The other Researcher’s method  …  8. Future Planning  And explain how does these outlines work together to make this article completed. | 1. Propose the question: imitation game 2. Justify the meanings of the question 3. Justify the digital computer is a promising way to solve the question 4. Present the objection to the author’s idea 5. Clarify the “learning machines” to state the evidence and propose the process of the training the ‘child program’ |
| 4. Mainly Issue | What is the issue that author want to solve? | Can machines think? |
| 5. Find the difficult or important words. | Find what words you are not understood and explain it by yourself.  Find important words in this article. | Digital computer  Intelligence  Learning machines  Child machine  Mutation |
| 6. Find the difficult sentences confusing you and explain what they mean. | 找出文中你不太懂的句子，试着解释他，最好用另外一种解释方法解释。 不要玩文字游戏。  例如， 《纯理性批判》里有一句话“除了实际存在的事物，没有任何东西能发生作用“。 如果你解释成“如果某个东西不存在，那么它就不能发生作用“，这就属于玩文字游戏。比较合理的解释一个例子是”只靠可能会下的雨，青草是不会生长的“或“只靠可能有的存款，一个人的账号是不可能增加的“。 | none |
| 7. Find the main sentences author written. | Find out sentences which could express the intention of author mostly. | Can machines think?  We only allow digital machine to be in the game.  Digital machine is classified as discrete state machine.  Are there discrete-state machines which would think?  Our problem then is to find out how to programme these machines to play the game.  We may hope that machines will eventually compete with men in all purely intellectual fields. |
| 8. What have been solved and what not have been solved? | What problems or issues the author have solved?  What problems or issues the author haven’t solved? | Justify the possibility of letting a digital computer imitating human minds and proposed high level guideline to achieve this.  Real experiments to test the idea had not been done due to lack of helpful tools. |
| 9. Rethink of the paper | Can you explain the paper main content to others?  Can you explain the paper to your wife/husband?  Can you explain the paper to a kindergarten pupil?  This answer ***cannot be Yes/No simply.*** *Please write the explanation with integrity.* | Yes.  When we ask “can machines think?”, we should understand that the definition of machines here is more about a digital computer, which is not necessary for electronic one, that imitate the process of human minds. We are not required an intelligent machine to be as similar as a true human with organs, feelings or emotions or creation, which may be a special talents to humans. We are focusing one of programme that would allow such thinking process happens in the machine by training the child programme and judging it through selection. |
| 10. Which parts do you agree with the author?  Why do you agree with these? | Find out the opinions of author that you agree with.  Give the reason why do you agree with. | Can machines think?  Yes, I agree by mutating the child programme with training and selection. |
| 11. Which parts do you not agree with the author? | List the parts or opinions that you do not agree with author. | None |
| 12. Why do you not agree with? | Classify each answer of question 11 as following types:  1. uninformed: 信息不足，必要的信息没有给到；  2. Misinformed: 论点与实事相反或不切合；  3. Logic Error; 逻辑错误，例如马基雅维的《君主论》里边：  所有的政府，不论新或旧，主要的维持基础在法律，如果这个政府没有很好的武装力量，就不会有良好的法律，也就是说，只要政府有很好的武装力量，就会有好的法律。  里边的逻辑错误在于“ 政府有很好的武装力量“ 应该是”有好的法律的“ 必要不重复条件，依照所述的逻辑，如果有好的法律，那么肯定有好的”武装“，但是有好的”武装“并不一定有好的法律。  4. Uncompleted Analysis; | Reading this paper in the current time is more like a history review. I am surprised that previous people could have such imagination and practical ways to solve this “can machines think?” question. There are lots of high levels ideas such as the main components of a digital computer, the process of how a digital computer works, the main steps of how to train a child programme.  The author successfully take the view of this question from a moral view to the target, a pure engineer view. To step out the zone and view it back. This is brilliant. |
| 13. Is this article helpful to you?  How can you use these knowledges in your life or in future? | 简述这篇文章是否对你有用，对你以后哪些场景下回使用到？ | Yes.  This paper is aged as many statements and proposes have been living in the current world. I am totally obsessed by the great author’s brave and creative idea when he was in his time.  When I explain the idea of ‘AI’ to others, I will apply some arguments from this paper. |