A simple Science Template

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This document presents a number of hints about how to set up your Science paper in LaTeX . We provide a template file, scifile.tex, that you can use to set up the LaTeX source for your article. An example of the style is the special {sciabstract} environment used to set up the abstract you see here.

引言

正文

AGI 综述相关：

近期有一些研究意识与模拟通用人工智能的文章。其中，

(?) 设计一套维果茨基的自主人工智能体，能够与他人互动，更重要的是，能够将这些互动内在化，将其转化为支持新认知功能发展的认知工具

TODO(?)。

(?) 提出了一种多模态（以视觉和自然语言二模态为例）转换方式。设计了一种多模态语言学习框架：编码-> 表示空间-> 解码。此外，设计对应的多模态处理器：视听处理器、语言视觉处理器、情绪处理器、建模世界处理器（多主体强化学习相关）、内在语言视觉触觉感受器（编码后之表现形式）

文献 (?) 提出了关于被称为多用途增强认知结构（MECA）的模型之综述。MECA 是基于来自 Dual Process Theory，Dynamic Subsumption，Concept Spaces 和 Grounded Cognition 的许多想法而设计的。其中，该认知结构由其开发的工具包使用 CST 构建。这类模型架构被认为是

因果涌现与信息论方面：

(Williams et al., 2010) 提出多变量信息结构，用于测度冗余信息熵。并且以绘制冗余韦恩图或者冗余晶格图之形式描述冗余信息。

(Graves et al., 2014) 结合图灵机思想和 LSTM 方法，有效解决了长期记忆不稳定的问题。

关于意识的数学模型方面，(Signorelli et al., 2021b) (Signorelli et al., 2021a) 作者借鉴佛学思想中六识的思想，试图用范畴论方法构造数学模型以解释意识。

自生成结构方面：

(Chan, 2020) 创新性地扩展康威生命游戏的空间和时间为连续形式，更接近拟合现实的微生物世界。其中能够被我们借鉴的方面有，帮助我们分析 agents 的演变方式。

References and Notes

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1. We've included in the template file scifile.tex a new environment, {scilastnote}, that generates a numbered final citation without a corresponding signal in the text. This environment can be used to generate a final numbered reference containing acknowledgments, sources of funding, and the like, per Science style.

Fig. 1. Please do not use figure environments to set up your figures in the final (post-peer-review) draft, do not include graphics in your source code, and do not cite figures in the text using LaTeX \ref commands. Instead, simply refer to the figure numbers in the text per Science style, and include the list of captions at the end of the document, coded as ordinary paragraphs as shown in the scifile.tex template file. Your actual figure files should be submitted separately.