



Expert-level protocol translation for self-driving labs

Yu-Zhe Shi, Fanxu Meng, Haofei Hou, Zhangqian Bi, Qiao Xu, Lecheng Ruan, Qining Wang Department of Advanced Manufacturing and Robotics, College of Engineering, Peking University

































Takeaways

We study the problem of translating protocols aimed to guide humans to those suitable for machine execution.

Takeaways

We study the **problem** of translating protocols aimed to guide humans to those suitable for machine execution.

We propose a **framework** that incrementally constructs Protocol Dependence Graphs on syntax, semantics, and execution levels.

Takeaways

We study the **problem** of translating protocols aimed to guide humans to those suitable for machine execution.

We propose a **framework** that incrementally constructs Protocol Dependence Graphs on syntax, semantics, and execution levels.

Our translator has the potential to democratize scientific discovery.

Thank you!