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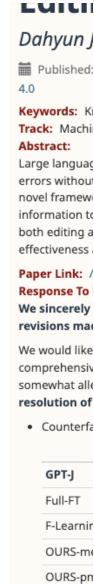
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E: An Unlearning-based Approach to Conflict-free N

Activity Tasks Jaehyung Seo 🕶







LLaMA-3

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ZsRE Data

GPT-J

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Jung, Jaehyung Seo, Jaewook Lee, Chanjun Park, Heuiseok Lim 💿

: 23 Jan 2025, Last Modified: 25 Feb 2025 🏲 NAACL 2025 toMainConference 💿 Conference, Area Chairs, Reviewers, Publication Chairs, Author

nowledge Editing, Unlearning, Locate-then-Edit ine Learning for NLP

ge models (LLMs) often retain outdated or incorrect information from pre-training, which undermines their reliability. While model editing methods t full re-training, they frequently suffer from knowledge conflicts, where outdated information interferes with new knowledge. In this work, we properly ork that enhances the accuracy of knowledge updates in LLMs by selectively removing outdated knowledge. CoME leverages unlearning to mitigate o be integrated without compromising relevant linguistic features. Through experiments on GPT-J and LLaMA-3 using Counterfact and ZsRE dataset accuracy and model reliability when applied to existing editing methods. Our results highlight that the targeted removal of outdated knowledge is c and maintaining the model's generative performance.

/forum?id=XCks7AD5HR

Metareview:

thank you for reviewing our paper and for acknowledging the contribution of our method in alleviating knowledge conflict in knowledge e de in this round will fully address the concerns raised by the reviewers.

to share the FT experiment results that we could not provide due to the limited rebuttal period. The results highlight that our approach outperforn vely evaluates editing performance. Specifically, F-learning—a knowledge editing approach based on FT—attempts to mitigate conflicts by erasing p eviate conflicts, it is inherently limited by the constraints of the FT framework, leading to suboptimal performance. In contrast, our method knowledge conflicts while utilizing resources more efficiently. These findings will be incorporated into the final version of the manuscript.

act Dataset Results

	35.6	29.0	28.1	71.4			
ng	38.1	30.5	30.8	73.7			
emit	86.4	99.4	91.1	73.2			
net	86.4	99.8	95.3	70.3			
3							
	28.7	37.5	36.6	62.8			
ng	32.1	25.0	23.9	84.8			
emit	78.2	95.7	91.3	59.0			
met	82.3	92.4	83.6	73.3			
aset Results							

Score Efficacy Generality Specificity

	Score	Lilicacy	deficiality	specificity
	37.4	52.2	49.6	24.5
ng	39.8	58.8	55.4	24.8
emit	50.3	97.3	93.0	25.9
met	49.0	89.4	83.1	26.3
3				
	54.1	61.5	60.1	44.2
ng	55.5	64.1	61.5	44.9
emit	35.2	64.5	62.5	18.6
met	68.9	90.6	87.8	47.4

Score Efficacy Generality Specificity

we deeply appreciate your invaluable feedback and believe our response effectively addresses your concerns.

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have been developed to address such pose Conflict-free Model Editing (CoME), a e knowledge interference, allowing new ts, we demonstrate that CoME improves rucial for enhancing model editing

editing. We are confident that the

ns FT-based methods in Score, which prior knowledge. While this strategy can demonstrates a more effective

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I understand that no further revisions can be requested after the deadline.

