2nd Workshop on Natural Language Reasoning and Structured Explanations

Bangkok, Thailand
15 August 2024

ISBN: 979-8-3313-0172-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2024) by the Association for Computational Linguistics
All rights reserved.

Printed with permission by Curran Associates, Inc. (2025)

For permission requests, please contact the Association for Computational Linguistics
at the address below.

Association for Computational Linguistics
209 N. Eighth Street
Stroudsburg, Pennsylvania 18360

Phone: 1-570-476-8006
Fax: 1-570-476-0860

acl@aclweb.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

GraphReason: Enhancing Reasoning Capabilities of Large Language Models through A Graph-Based Verification Approach
Lang Cao 1

PROC2PDDL: Open-Domain Planning Representations from Texts
Tianyi Zhang, Li Zhang, Zhaoyi Joey Hou, Ziyu Wang, Yuling Gu, Peter Clark, Chris Callison-Burch and Niket Tandon 13

Towards A Unified View of Answer Calibration for Multi-Step Reasoning
Shumin Deng, Ningyu Zhang, Nay Oo and Bryan Hooi 25

Applying RLAIF for Code Generation with API-usage in Lightweight LLMs
Sujan Dutta, Sayantan Mahinder, Raviteja Anantha and Bortik Bandyopadhyay 39

SummEQuAL: Summarization Evaluation via Question Answering using Large Language Models
Junyuan Liu, Zhengyan Shi and Aldo Lipani 46

LOGIC-LM++: Multi-Step Refinement for Symbolic Formulations
Shashank Kirtania, Priyanshu Gupta and Arjun Radhakrishna 56

From Good to Great: Improving Math Reasoning with Tool-Augmented Interleaf Prompting
Nuo Chen, Hongguang Li, Baoyuan Wang and Jia Li 64