

Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)

Systems Demonstrations

Miami, Florida, USA
12-16 November 2024

ISBN: 979-8-3313-0838-4

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

<i>FreeEval: A Modular Framework for Trustworthy and Efficient Evaluation of Large Language Models</i>	
Zhuohao Yu, Chang Gao, Wenjin Yao, Yidong Wang, Zhengran Zeng, Wei Ye, Jindong Wang, Yue Zhang and Shikun Zhang	1
<i>i-Code Studio: A Configurable and Composable Framework for Integrative AI</i>	
Yuwei Fang, Mahmoud Khademi, Chenguang Zhu, Ziyi Yang, Reid Pryzant, Yichong Xu, Yao Qian, Takuya Yoshioka, Lu Yuan, Michael Zeng and Xuedong Huang	14
<i>Evalverse: Unified and Accessible Library for Large Language Model Evaluation</i>	
Jihoo Kim, Wonho Song, Dahyun Kim, Yunsu Kim, Yungi Kim and Chanjun Park	25
<i>Medico: Towards Hallucination Detection and Correction with Multi-source Evidence Fusion</i>	
Xinping Zhao, Jindi Yu, Zhenyu Liu, Jifang Wang, Dongfang Li, Yibin Chen, Baotian Hu and Min Zhang	34
<i>OpenOmni: A Collaborative Open Source Tool for Building Future-Ready Multimodal Conversational Agents</i>	
Qiang Sun, Yuanyi Luo, Sirui Li, Wenxiao Zhang and Wei Liu	46
<i>Lighthouse: A User-Friendly Library for Reproducible Video Moment Retrieval and Highlight Detection</i>	
Taichi Nishimura, Shota Nakada, Hokuto Munakata and Tatsuya Komatsu	53
<i>MarkLLM: An Open-Source Toolkit for LLM Watermarking</i>	
Leyi Pan, Aiwei Liu, Zhiwei He, Zitian Gao, Xuandong Zhao, Yijian LU, Binglin Zhou, Shuliang Liu, Xuming Hu, Lijie Wen, Irwin King and Philip S. Yu	61
<i>AUTOGEN STUDIO: A No-Code Developer Tool for Building and Debugging Multi-Agent Systems</i>	
Victor Dibia, Jingya Chen, Gagan Bansal, Suff Syed, Adam Fourney, Erkang Zhu, Chi Wang and Saleema Amershi	72
<i>TinyAgent: Function Calling at the Edge</i>	
Lutfi Eren Erdogan, Nicholas Lee, Siddharth Jha, Sehoon Kim, Ryan Tabrizi, Suhong Moon, Coleman Richard Charles Hooper, Gopala Anumanchipalli, Kurt Keutzer and Amir Gholami	80
<i>TruthReader: Towards Trustworthy Document Assistant Chatbot with Reliable Attribution</i>	
Dongfang Li, Xinshuo Hu, Zetian Sun, Baotian Hu, Shaolin Ye, Zifei Shan, Qian Chen and Min Zhang	89
<i>Commentator: A Code-mixed Multilingual Text Annotation Framework</i>	
Rajvee Sheth, Shubh Nisar, Heenaben Prajapati, Himanshu Beniwal and Mayank Singh	101
<i>Integrating INCEPTION into larger annotation processes</i>	
Richard Eckart De Castilho, Jan-Christoph Klie and Iryna Gurevych	110
<i>Arxiv Copilot: A Self-Evolving and Efficient LLM System for Personalized Academic Assistance</i>	
Guanyu Lin, Tao Feng, Pengrui Han, Ge Liu and Jiaxuan You	122
<i>TransAgents: Build Your Translation Company with Language Agents</i>	
Minghao Wu, Jiahao Xu and Longyue Wang	131
<i>Monitoring Hate Speech in Indonesia: An NLP-based Classification of Social Media Texts</i>	
Musa Izzanardi Wijanarko, Lucky Susanto, Prasetya Anugrah Pratama, Ika Karlina Idris, Traci Hong and Derry Tanti Wijaya	142

<i>CAVA: A Tool for Cultural Alignment Visualization & Analysis</i>	153
Nevan Giuliani, Cheng Charles Ma, Prakruthi Pradeep and Daphne Ippolito	153
<i>ReDel: A Toolkit for LLM-Powered Recursive Multi-Agent Systems</i>	162
Andrew Zhu, Liam Dugan and Chris Callison-Burch	162
<i>BattleAgent: Multi-modal Dynamic Emulation on Historical Battles to Complement Historical Analysis</i>	172
Shuhang Lin, Wenyue Hua, Lingyao Li, Che-Jui Chang, Lizhou Fan, Jianchao ji, Hang Hua, Mingyu Jin, Jiebo Luo and Yongfeng Zhang	172
<i>sign.mt: Real-Time Multilingual Sign Language Translation Application</i>	182
Amit Moryossef	182
<i>WebOlympus: An Open Platform for Web Agents on Live Websites</i>	187
Boyuan Zheng, Boyu Gou, Scott Salisbury, Zheng Du, Huan Sun and Yu Su	187
<i>TAIL: A Toolkit for Automatic and Realistic Long-Context Large Language Model Evaluation</i>	198
Gefei Gu, Yilun Zhao, Ruoxi Ning, Yanan Zheng and Arman Cohan	198
<i>OpenResearcher: Unleashing AI for Accelerated Scientific Research</i>	209
Yuxiang Zheng, Shichao Sun, Lin Qiu, Dongyu Ru, Cheng Jiayang, Xuefeng Li, Jifan Lin, Binjie Wang, Yun Luo, Renjie Pan, Yang Xu, Qingkai Min, Zizhao Zhang, Yiwen Wang, Wenjie Li and Pengfei Liu	209
<i>OpenFactCheck: A Unified Framework for Factuality Evaluation of LLMs</i>	219
Hasan Iqbal, Yuxia Wang, Minghan Wang, Georgi Nenkov Georgiev, Jiahui Geng, Iryna Gurevych and Preslav Nakov	219
<i>ULLME: A Unified Framework for Large Language Model Embeddings with Generation-Augmented Learning</i>	230
Hieu Man, Nghia Trung Ngo, Franck Dernoncourt and Thien Huu Nguyen	230
<i>To the Globe (TTG): Towards Language-Driven Guaranteed Travel Planning</i>	240
Da JU, Song Jiang, Andrew Cohen, Aaron Foss, Sasha Mitts, Arman Zharmagambetov, Brandon Amos, Xian Li, Justine T Kao, Maryam Fazel-Zarandi and Yuandong Tian	240
<i>MATSA: Multi-Agent Table Structure Attribution</i>	250
Puneet Mathur, Alexa Siu, Nedim Lipka and Tong Sun	250
<i>OpenT2T: An Open-Source Toolkit for Table-to-Text Generation</i>	259
Haowei Zhang, Shengyun Si, Yilun Zhao, Lujing Xie, Zhijian Xu, Lyuhao Chen, Linyong Nan, Pengcheng Wang, Xiangru Tang and Arman Cohan	259
<i>ChatHF: Collecting Rich Human Feedback from Real-time Conversations</i>	270
Andrew Li, Zhenduo Wang, Ethan Mendes, Duong Minh Le, Wei Xu and Alan Ritter	270
<i>KMatrix: A Flexible Heterogeneous Knowledge Enhancement Toolkit for Large Language Model</i>	280
Shun Wu, Di Wu, Kun Luo, XueYou Zhang, Jun Zhao and Kang Liu	280
<i>Xinference: Making Large Model Serving Easy</i>	291
Weizheng Lu, Lingfeng Xiong, Feng Zhang, Xuye Qin and Yueguo Chen	291
<i>RETAIN: Interactive Tool for Regression Testing Guided LLM Migration</i>	301
Tanay Dixit, Daniel Lee, Sally Fang, Sai Sree Harsha, Anirudh Sureshan, Akash V Maharaj and Yunyao Li	301
<i>ClaimLens: Automated, Explainable Fact-Checking on Voting Claims Using Frame-Semantics</i>	311
Jacob Devasier, Rishabh Mediratta, Phuong Anh Le, David Huang and Chengkai Li	311

<i>RAGViz: Diagnose and Visualize Retrieval-Augmented Generation</i>	320
Tevin Wang, Jingyuan He and Chenyan Xiong	
<i>PyMarian: Fast Neural Machine Translation and Evaluation in Python</i>	328
Thamme Gowda, Roman Grundkiewicz, Elijah Rippeth, Matt Post and Marcin Junczys-Dowmunt	
<i>LLM-DetectAIve: a Tool for Fine-Grained Machine-Generated Text Detection</i>	336
Mervat Abassy, Kareem Elozeiri, Alexander Aziz, Minh Ngoc Ta, Raj Vardhan Tomar, Bimarscha Adhikari, Saad El Dine Ahmed, Yuxia Wang, Osama Mohammed Afzal, Zhuohan Xie, Jonibek Mansurov, Ekaterina Artemova, Vladislav Mikhailov, Rui Xing, Jiahui Geng, Hasan Iqbal, Zain Muhammad Mujahid, Tarek Mahmoud, Akim Tsvigun, Alham Fikri Aji, Artem Shelmanov, Nizar Habash, Iryna Gurevych and Preslav Nakov	
<i>Translation Canvas: An Explainable Interface to Pinpoint and Analyze Translation Systems</i>	344
Chinmay Dandekar, Wenda Xu, Xi Xu, Siqi Ouyang and Lei Li	
<i>mbrs: A Library for Minimum Bayes Risk Decoding</i>	351
Hiroyuki Deguchi, Yusuke Sakai, Hidetaka Kamigaito and Taro Watanabe	
<i>Debug Smarter, Not Harder: AI Agents for Error Resolution in Computational Notebooks</i>	363
Konstantin Grotov, Artem Borzilov, Maksim Krivobok, Timofey Bryksin and Yaroslav Zharov	
<i>Schema-Guided Culture-Aware Complex Event Simulation with Multi-Agent Role-Play</i>	372
Sha Li, Revanth Gangi Reddy, Khanh Duy Nguyen, Qingyun Wang, Yi Fung, Chi Han, Jiawei Han, Kartik Natarajan, Clare R. Voss and Heng Ji	
<i>SparkRA: A Retrieval-Augmented Knowledge Service System Based on Spark Large Language Model</i>	382
Dayong Wu, Jiaqi Li, Baoxin Wang, Honghong Zhao, Siyuan Xue, Yanjie Yang, Zhijun Chang, Rui Zhang, Li Qian, Bo Wang, Shijin Wang, Zhixiong Zhang and Guoping Hu	
<i>Generative Dictionary: Improving Language Learner Understanding with Contextual Definitions</i>	390
Kai-Wen Tuan, Hai-Lun Tu and Jason S. Chang	
<i>WalledEval: A Comprehensive Safety Evaluation Toolkit for Large Language Models</i>	397
Prannaya Gupta, Le Qi Yau, Hao Han Low, I-Shiang Lee, Hugo Maximus Lim, Yu Xin Teoh, Koh Jia Hng, Dar Win Liew, Rishabh Bhardwaj, Rajat Bhardwaj and Soujanya Poria	
<i>RAGLAB: A Modular and Research-Oriented Unified Framework for Retrieval-Augmented Generation</i>	408
Xuanwang Zhang, Yun-Ze Song, Yidong Wang, Shuyun Tang, Xinfeng Li, Zhengran Zeng, Zhen Wu, Wei Ye, Wenyuan Xu, Yue Zhang, Xinyu Dai, Shikun Zhang and Qingsong Wen	
<i>AutoTrain: No-code training for state-of-the-art models</i>	419
Abhishek Thakur	
<i>Sailor: Open Language Models for South-East Asia</i>	424
Longxu Dou, Qian Liu, Guangtao Zeng, Jia Guo, Jiahui Zhou, Xin Mao, Ziqi Jin, Wei Lu and Min Lin	
<i>RepoAgent: An LLM-Powered Open-Source Framework for Repository-level Code Documentation Generation</i>	436
Qinyu Luo, Yining Ye, Shihao Liang, Zhong Zhang, Yujia Qin, Yaxi Lu, Yesai Wu, Xin Cong, Yankai Lin, Yingli Zhang, Xiaoyin Che, Zhiyuan Liu and Maosong Sun	

<i>DeepPavlov 1.0: Your Gateway to Advanced NLP Models Backed by Transformers and Transfer Learning</i>	
Maksim Savkin, Anastasia Voznyuk, Fedor Ignatov, Anna Korzanova, Dmitry Karpov, Alexander Popov and Vasily Konovalov	465
<i>Kandinsky 3: Text-to-Image Synthesis for Multifunctional Generative Framework</i>	
Arkhipkin Vladimir, Viacheslav Vasilev, Andrei Filatov, Igor Pavlov, Julia Agafonova, Nikolai Gerasimenko, Anna Averchenkova, Evelina Mironova, Bukashkin Anton, Konstantin Kulikov, Andrey Kuznetsov and Denis Dimitrov	475
<i>MIMIR: A Customizable Agent Tuning Platform for Enhanced Scientific Applications</i>	
Xiangru Tang, Chunyuan Deng, Hanminwang Hanminwang, Haoran Wang, Yilun Zhao, Wenqi Shi, Yi Fung, Wangchunshu Zhou, Jiannan Cao, Heng Ji, Arman Cohan and Mark Gerstein.....	486
<i>WildVis: Open Source Visualizer for Million-Scale Chat Logs in the Wild</i>	
Yuntian Deng, Wenting Zhao, Jack Hessel, Xiang Ren, Claire Cardie and Yejin Choi	497
<i>Instruction-Driven Game Engine: A Poker Case Study</i>	
Hongqiu Wu, Xingyuan Liu, Yan Wang and Hai Zhao	507
<i>LM-Interview: An Easy-to-use Smart Interviewer System via Knowledge-guided Language Model Exploitation</i>	
Hanming Li, Jifan Yu, Ruimiao Li, Zhanxin Hao, Yan Xuan, Jiaxi Yuan, Bin Xu, Juanzi Li and Zhiyuan Liu	520