

EMNLP 2025

**The 2025 Conference on Empirical Methods in Natural
Language Processing**

Proceedings of the Industry Track

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Introduction

Welcome to EMNLP Industry Track 2025!

The EMNLP 2025 Industry Track highlights the key insights, novel research trends and challenges encountered in the design, development and deployment of practical language technology applications. Relevant topics include efficiency, maintainability, and scalability of the real-world, novel use cases, methods, and applications.

The main goal of the Industry Track is to be the foremost venue for bridging the gap and sharing insights between academia and industry. The track made its debut in ACL conferences at the NAACL 2018 and was first introduced to EMNLP in 2022. This year is the fourth edition of the Industry Track at EMNLP. We are thrilled to have received a record 449 submissions to the Industry Track this year, a hundred more submissions than last year. A total of 38 area chairs, out of which 16 with industry affiliations, were recruited to handle the submissions. Each paper underwent review by at least three program committee members, with area chairs providing a meta-review and recommendation. We encouraged an author-reviewer discussion stage for the Industry Track.

Assignments of papers to area chairs were made automatically and revised manually according to fine-grained areas of interest. The submissions cover a wide range of topics including, Agentic AI, RAG, Conversational Agents, Evaluation and Alignment of Large Language Models, Embeddings, Information Retrieval, Information Extraction, Natural Language Understanding, Multi-modality, Reasoning and Planning, as well as Generation and Summarization. Finally, Optimization and Parameter-Efficient Fine-tuning. It also includes applications in Health, Medicine, Education, and e-Commerce. Submission types include NLP methods, efficient methods, and description of deployed systems or benchmarks. We are excited to see such diversity in the submissions.

The Industry Track accepted 193 papers at an acceptance rate of 42%. The Industry Track schedule will be part of the EMNLP conference and will feature four oral sessions and three poster sessions. As the main conference, the industry track supports both in-person and virtual sessions.

We would like to express our gratitude to all 2575 authors who submitted their work to the Industry Track. We also thank the 493 reviewers and 38 area chairs who volunteered and consecrated their valuable time to review the submissions and helped shape the program, ensuring the high quality of the contributions. It was our honor to chair the Industry Track, and we would like to extend our gratitude to the conference general chair, Dirk Hovy, for trusting us with these duties. We would like to thank all members of the EMNLP organizing committee for their help and prompt responses to our questions. Additionally, we are grateful to the past chairs of Industry Tracks at ACL conferences for sharing materials and valuable advice with us.

We hope you find the proceedings insightful and inspiring.

Enjoy the conference!

Sebastien Montella, Saloni Potdar and Lina Rojas-Barahona

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Keynote Talk
Building Specialized Generalist Large Models:
Infrastructure, Data and Algorithms

Kai Chen
Shanghai AI Lab
2025-11-05 11:00:00 – Room: **A204-205**

Abstract: Large models have achieved impressive performance across various domains, yet effectively harnessing their potential in complex real-world settings, especially those demanding human expert knowledge and long-horizon reasoning, remains a core challenge. In this talk, I will present the technical advances behind the open-source Intern-series models (e.g., InternVL and Intern-S1), including scalable training and inference infrastructure, unified multimodal data pipelines, and novel algorithms for specialization-generalization fusion and performance boosting. I will highlight how we efficiently integrate diverse scientific data and tasks, and how our methods enable models to acquire expert-level skills in specialized domains while retaining broad generalization ability. These advances have enabled Intern-series models to achieve state-of-the-art results across a wide range of benchmarks and delivered measurable impact in real-world applications.

Bio: Kai Chen is a research scientist and head of large model center at Shanghai AI Laboratory. He received the PhD degree from the Chinese University of Hong Kong in 2019 and B.Eng. degree from Tsinghua University in 2015. He is currently focused on building foundation models and intelligent agents for complex scenarios, and now leading the development of Intern-series large models (InternLM, InternVL, Intern-S1). He has published over 70 papers on top-tier conferences and received more than 27k citations. During past years, he has also worked on computer vision and led the OpenMMLab open-source project, which received more than 120k stars on GitHub and has been widely adopted by users in 140 countries and regions, making it the most influential open-source computer vision algorithm system in the era of deep learning.

Keynote Talk

Self-Evolving Agent for Lenovo AI Devices

Jianping Fan

Lenovo

2025-11-05 16:30:00 – Room: A204-205

Abstract: In this presentation, we will report our R&D progresses on self-evolving agent for AI-native device. First, we will introduce our architecture and building blocks for Lenovo AI agent; then we will introduce our solution for self-evolving agent, where two approaches are introduced: parametric evolving and non-parametric evolving. We majorly introduce our solutions for memory evolving and toolset evolving. Finally, we will briefly introduce our future R&D plans on multi-agent collaboration, human-agent team-up and personalized agent.

Bio: Dr. Jianping Fan is a well-known technology leader in artificial intelligence, especially in computer vision, machine learning and privacy protection. He has published 200+ peer reviewed papers, and is a recipient of the China national natural science advancement award (3rd class), Shanghai municipal science and technology advancement award (1st class), Shan'xi provincial science and technology advancement award (1st class), and ACM Multimedia best paper runner up (2004). Dr. Fan joined Lenovo as the VP and Head of AI Lab in 2020.

Keynote Talk

Conversational Foundations: Grounding, Trust and Collaboration with AI Agents

Kristiina Jokinen
2025-11-06 16:30:00 – Room: A204-205

Abstract: In this talk I will focus on the use of GenAI models in interactive applications and discuss challenges and opportunities when applying generative models to support fluent, yet trustworthy conversations between AI systems and humans. Based on my recent projects, I will present examples and lessons learnt when designing and developing practical applications. I will discuss foundational aspects of interaction in the framework of knowledge graphs and agentic architectures, and in particular, emphasise the importance of grounding, trust, and collaboration, to support responsible AI and build natural, safe and reliable interactive systems.

Bio: Kristiina Jokinen is Senior Researcher at AI Research Center (AIRC) at National Institute of Advanced Industrial Science and Technology (AIST) in Tokyo, and Adjunct Professor at University of Helsinki. She is Life Member of Clare Hall at University of Cambridge, Member of ELLIS European AI network of excellence, Advisory Board member for AIE program (AI in Electronics) in Japan, and Steering Committee member for IWSDS international Dialogue Workshop series. She served as Secretary-Treasurer of SIGDial for many years. She has led numerous national and international research projects, and most recently led dialogue research in the EU-Japan collaboration project e-VITA. Her research concerns human-robot interaction, GenAI-based dialogue modelling and multimodal communication, and she has published widely on these topics. She developed Constructive Dialogue Model as a general framework for interaction, and with Graham Wilcock developed the Wikipedia-based robot dialogue system Wiki-Talk, which won Special Recognition for Best Robot Design (Software Category) at the International Conference of Social Robotics in 2017.

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