Advances in Large Language Model Empowered Machine Learning: Design and Application

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Message from the Guest Editors

The focus of this Special Issue is to explore the cutting-edge developments in LLM-empowered machine learning, with a particular emphasis on both the design aspects of LLMs and their broad application across diverse domains, such as NLP and CV. We welcome submissions (both of original research papers and review articles) related, but not limited to, the following topics:

- LLM-empowered machine learning:
    - In-context learning;
    - Chain-of-thought reasoning;
    - Content creation;
    - Data analysis and understanding;
    - Knowledge-base/graph enhanced reliable generation.

- LLM-empowered NLP:
    - Summarization and text generation;
    - Information extraction;
    - Question answering;
    - Sentiment analysis and opinion mining;
    - Semantic parsing;
    - Machine translation;
    - Recommendation.

- LLM-empowered multimodal learning:
    - Text-to-image generation;
    - Text-to-video generation;
    - Image/video captioning;
    - 3D understanding;
    - Multimodal information retrieval;
    - Multimodal fusion and integration of

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Special Issue

- Multimodal fusion and integration of information;
- Multimodal applications/pipelines.

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We look forward to receiving your contributions.

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Message from the Editor-in-Chief

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