Special Issue

Multi-Agentic Systems for Automated Task Execution

Message from the Guest Editors

- The direct application of large language models (LLMs) and vision-language models (VLMs) as autonomous agents has become increasingly significant in advancing artificial intelligence. This Special Issue focuses on the development and application of multimodal multi-agent systems designed for automated task execution across diverse environments, including web-based platforms, operating systems, and software applications.
- A central theme of this topic concerns agentic workflows that enable agents to interpret textual instructions, decompose tasks into subtasks, and execute them autonomously in a structured, step-by-step manner.
- The Special Issue also highlights the role of reasoning, long-horizon planning, and tool integration in enabling effective multi-agent collaboration. We invite contributions that explore novel methodologies, architectures, and real-world applications of multimodal multi-agentic systems for task automation, addressing key challenges and innovations in this rapidly evolving field.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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