

Meng Shuai

Member of the PRiSE Research Group, Anhui Polytechnic University
Research Direction: Intelligent Software Process - API Recommendation
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Research Interests

Intelligent Software Process - API Recommendation; API recommendation for novice programmers; LLM-assisted software engineering; intent modeling and semantic retrieval; developer tools and intelligent programming support.

Education

- **M.S. in Software Engineering**, Anhui Polytechnic University, 2024–Present. Research direction: Intelligent Software Process - API Recommendation.
- **B.E. in Data Science and Big Data Technology**, Anhui Polytechnic University, 2020–2024. Served as president of the Computer Association and participated in programming contests and technology volunteer activities.

Research Output

- **API Recommendation for Novice Programmers: From Clear Expressions to Effective Results.** IEEE Transactions on Reliability, accepted. Role: second author and corresponding author. Proposes IOCAPI, an intent-oriented and context-aware method that uses I/O examples and LLM reasoning for explainable API recommendation.
- **API Recommendation based on Consensus Learning for Novice Programmers.** IEEE Transactions on Services Computing, revise and resubmit. Role: first author. Proposes CoLAR, integrating semantic retrieval and LLM knowledge with multi-path consensus learning for robust API recommendation.
- **API Recommendation for Novice Programmers with Consensus Learning using Heterogeneous Information.** Automated Software Engineering, under review. Role: second author and corresponding author. Proposes CoHAPI, using Stack Overflow Q&A, GitHub comments, rank-fusion consensus, and semantic verification.

Projects

- **AI Alumni Time Machine**, 2026–Present. Project lead for an AI-powered alumni service prototype covering youthful portrait generation, campus-scene fusion, historical group-photo retrieval, and commemorative content generation.
- **Warehouse MES Management System**, May 2025–Nov 2025. Core developer for inventory management, inbound/outbound workflows, batch tracking, stock alerts, and visualization modules using Spring Cloud and Vue 2.

Selected Awards

- Second Prize, Lanqiao Cup Anhui Provincial Contest; Second Prize, Anhui College Student Network and Distributed System Innovation Design Competition.
- National First Prize, Computer Competency Challenge - C Programming; East China Regional First Prize, Computer Competency Challenge - C Programming; Bronze Award, University Youth Volunteer Service Competition.