

Dear Editors,

On behalf of my co-authors, I am pleased to submit our manuscript entitled:

“Multi-Agent AI Framework for Automated Corporate Data Enrichment”

for consideration in *Systems*.

This work presents a novel multi-agent artificial intelligence framework that automates the transformation of raw company identifiers into structured business intelligence profiles. The proposed pipeline integrates large language models, automated web information gathering, structured data synthesis, and a reflection-based quality assurance mechanism.

Our main contributions include:

- Development of a **comprehensive multi-agent system architecture** for automated information extraction and enrichment.
- Implementation of a **hierarchical relationship discovery module**, enabling accurate mapping of parent–subsidiary corporate structures.
- Introduction of a **reflection mechanism** that improves output quality and reliability.
- Empirical validation on a dataset of 400 companies from the Turkish and global market, demonstrating practical scalability and revealing organizational complexity patterns.

We believe this research is well aligned with the aims of *Systems*, as it provides a systemic, interdisciplinary solution at the intersection of artificial intelligence, systems engineering, and business intelligence. It addresses the growing need for scalable methods to manage complex organizational and socio-technical systems.

This manuscript has not been published elsewhere, is not under consideration by another journal, and all authors have approved its submission to *Systems*. We declare no conflicts of interest.

We thank you for considering our work for publication in *Systems*. We look forward to your response.

Sincerely,

Doga Yagmur Yilmaz
On behalf of all co-authors