**Subject:** Cover Letter for Manuscript Submission – *LiveDocs: A Peer-to-Peer Real-Time Collaborative Document Editor Using WebRTC and CRDTs*

**Dear Editor,**

I am pleased to submit our manuscript titled **“LiveDocs: A Peer-to-Peer Real-Time Collaborative Document Editor Using WebRTC and CRDTs”** for consideration for publication in the *Peer-to-Peer Networking and Applications*. This work addresses a critical gap in the domain of real-time collaborative systems by proposing a decentralized solution that removes the dependence on traditional, centralized server-based architectures.

The motivation behind this research stems from the growing demand for scalable, secure, and fault-tolerant collaborative tools. While conventional solutions like Google Docs offer robust features, they rely heavily on centralized cloud infrastructure, which introduces single points of failure, privacy concerns, and scalability limitations. LiveDocs overcomes these challenges by utilizing WebRTC for peer-to-peer communication and Yjs CRDTs for real-time data synchronization. This architecture ensures seamless collaboration among users while offering reduced server costs, enhanced fault tolerance, and greater scalability.

Our manuscript outlines the system design, core features – including real-time editing, role-based access control, and JWT-secured authentication – and evaluates the performance and resilience of LiveDocs under different collaborative scenarios. The work contributes novel insights to the fields of distributed systems, web technologies, and secure collaboration platforms, aligning well with the scope and readership of *Peer-to-Peer Networking and Applications*.

We believe that this research will be of significant interest to academics, professionals, and developers working on decentralized systems, collaborative applications, and modern web architectures. This manuscript has not been published nor is it under consideration elsewhere.

Thank you for your time and consideration. We look forward to the opportunity to contribute to your esteemed journal.