

Review of: "Quantum Network Communication Based on Voice-Control Technology"

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Potential competing interests: No potential competing interests to declare.

The paper presents an ambitious exploration of utilizing quantum entanglement and voice-control technology to establish a communication network encompassing both living and non-living entities. The manuscript proposes a novel approach whereby human speech can interact with quantum systems to facilitate instantaneous communication across vast distances. While the paper introduces intriguing concepts and potential applications, there are several aspects that require further clarification and evaluation.

Strengths:

- Innovative Concept: The manuscript introduces a novel concept that bridges quantum entanglement with voicecontrol technology to enable communication between humans and other entities, transcending traditional communication boundaries.
- 2. **Interdisciplinary Approach:** The integration of concepts from quantum physics, communication theory, and cognitive science demonstrates a multidisciplinary perspective, offering unique insights into the potential interrelationship between consciousness and quantum phenomena.
- 3. **Practical Implications:** The proposed research plan outlines practical applications, such as remote device control through voice commands, which could have significant implications for various fields, including telecommunications and human-machine interaction.

Areas for Improvement:

- Theoretical Foundation: The paper lacks a comprehensive theoretical framework to support the proposed model of
 quantum network communication. Providing a clear theoretical foundation based on established principles of quantum
 mechanics and communication theory would strengthen the credibility of the research.
- 2. Clarity of Methodology: While the paper mentions a research plan and thought experiments, it lacks specific details regarding the methodology used to investigate the proposed concepts. Clarifying the experimental design and methodologies employed would enhance the reproducibility and rigor of the study.
- 3. **Feasibility Assessment:** The paper does not adequately address the technical challenges or feasibility considerations associated with implementing the proposed quantum induction network. Discussing potential limitations and addressing feasibility concerns would provide a more balanced evaluation of the proposed approach.

Overall Assessment: The paper presents a fascinating exploration of quantum network communication facilitated by



voice-control technology, offering innovative insights into the potential interconnection of all things. However, to strengthen the manuscript's scientific rigor and clarity, it is essential to provide a robust theoretical foundation, clarify the methodology, and address feasibility considerations.

Recommendation: Given the promising nature of the research topic, I recommend further development of the paper to address the areas for improvement outlined above. With these revisions, the manuscript would better align with the standards of scientific rigor and clarity expected in scholarly publications.

While the proposed quantum network communication based on voice-control technology presents a novel approach to interconnecting entities through quantum entanglement, it is essential to consider alternative models based on octonion and quaternion frameworks. Octonions and quaternions are mathematical structures that extend complex numbers and have been applied in various scientific domains, including physics and signal processing.

Daneshfar, F. and Jamshidi, M.B., 2023. An octonion-based nonlinear echo state network for speech emotion recognition in Metaverse. *Neural Networks*, *163*, pp.108-121.

Daneshfar, F. and Kabudian, S.J., 2021, December. Speech Emotion Recognition Using a New Hybrid Quaternion-Based Echo State Network-Bilinear Filter. In 2021 7th International Conference on Signal Processing and Intelligent Systems (ICSPIS) (pp. 1-5). IEEE.

(please consider the following papers in this domain)