

Review of: "A Smart Vehicle Charging Station Identification Based On IOT with Hybrid Grey Wolf-Bat Optimization Enriched On Artificial Neural Networks Recognition Methods"

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Potential competing interests: No potential competing interests to declare.

This paper addresses a critical issue in EV infrastructure by proposing a smart, IoT-enabled charging station identification system. While the integration of GWBO, ANN, and IoT technologies is innovative, the paper suffers from a lack of detail in its methodology, results, and analysis. Enhancing the clarity and depth of these sections would significantly improve its impact and applicability. The abstract presents the research focus on creating a smart IoT-based vehicle charging station identification system with enhanced route optimization and slot availability monitoring using advanced computational techniques.

Strengths:

1. Clearly states the objectives, including the development of a system that identifies nearby charging points, monitors vacant slots, and reduces delays.
2. Highlights the methodologies: IoT integration, image processing, Anisotropic Filtering, co-occurrence matrix, GWBO for route optimization, and ANN for slot availability detection.
3. Mentions validation through comparative analysis with conventional methods, indicating a structured evaluation approach.

Furthermore, the paper would benefit from the inclusion of more updated references to strengthen its relevance and reliability. Integrating recent studies and findings related to the topic will demonstrate the author's awareness of current developments in the field and ensure that the paper remains up-to-date.

https://www.researchgate.net/publication/331049288_Internet_of_things_utilization_for_ehealthcare_monitoring

These enhancements will contribute to the overall quality and impact of the paper, enhancing its value to the academic community and readers interested in the subject matter.

Suggestions for Improvement

- Include key performance metrics (e.g., percentage improvement in detection accuracy or reduction in queuing time).
- Briefly mention the datasets or experimental conditions used for validation.

- Replace generic statements with recent statistics or examples of EV adoption and challenges.
- Streamline the discussion on SOC estimation to focus on aspects relevant to the proposed system.
- Provide specific recommendations for implementing the system in real-world scenarios.
- Suggest areas for future research, such as extending the system to support multi-modal transportation networks.