

ReviewForm 1.7

JournalName:	ArchivesofCurrentResearchInternational
ManuscriptNumber:	Ms_ACRI_113975
Titleof theManuscript:	ApplicationofArtificialIntelligenceinFisheriesandAquaculture
Typeof the Article	ResearchPaper

PART1:ReviewComments

	Reviewer'scomment	Author'scomment <i>(ifagreedwithreviewer,correct themanuscriptandhighlightthatpartinthe manuscript.Itis mandatorythatauthorsshouldwrite his/herfeedbackhere)</i>

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Compulsory REVISION comments

- 1. **Is the manuscript important for scientific community?**
(Please write few sentences on this manuscript)
- 2. **Is the title of the article suitable?**
(If not please suggest an alternative title)
- 3. **Is the abstract of the article comprehensive?**
- 4. **Are subsections and structure of the manuscript appropriate?**
- 5. **Do you think the manuscript is scientifically correct?**
- 6. **Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.**

(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)

Answer to Question 1:

The manuscript on the application of Artificial Intelligence (AI) in fisheries and aquaculture is indeed important for the scientific community. It addresses key issues such as sustainability, productivity, and environmental conservation in the aquaculture industry, which are of utmost importance in today's world. The use of AI technology in automating tasks like monitoring water quality and fishing activities leads to increased efficiency and lower costs, which are crucial for the industry's success. Furthermore, AI-driven solutions offer unprecedented opportunities for sustainable aquaculture practices and biodiversity conservation, indicating the manuscript's significance in guiding future research. Notably, the integration of AI in fisheries management for tasks like species identification and quota tracking shows promise for improving operational efficiency and resource management. The focus on automation and real-time data collection in fishery assessments underscores the manuscript's relevance in advancing innovative technologies for the benefit of the scientific community. Overall, the manuscript's exploration of AI's potential in transforming the fisheries and aquaculture sector towards a more sustainable and technologically advanced future makes it an important contribution to the scientific community.

Answer to Question 2:

The title of the article "Artificial Intelligence in Fisheries and Aquaculture: Enhancing Sustainability and Productivity" is suitable as it accurately reflects the content and focus of the document. The application of AI in fisheries and aquaculture is discussed in depth, emphasizing how it can contribute to sustainability and increased productivity in the industry. The title effectively conveys the main theme and purpose of the article, making it appropriate for the subject matter being discussed.

Answer to Question 3:

The abstract of the article is comprehensive as it discusses the application of Artificial Intelligence (AI) in fisheries and aquaculture to enhance sustainability and productivity. It highlights the role of aquaculture in addressing global food insecurity and malnutrition, while also tackling challenges such as overfishing and environmental damage. The abstract covers how AI technology is transforming the industry by automating tasks like monitoring water quality, feed distribution, and fishing activities, leading to increased efficiency and lower costs. It also addresses the benefits of real-time data collection and decision-making for fish growth optimization and health monitoring. Additionally, the abstract touches upon the potential benefits of AI in fisheries management, such as automation of monitoring systems, species identification, and quota tracking. The abstract provides a comprehensive overview of the significant opportunities AI presents for revolutionizing the fisheries and aquaculture sector towards a more sustainable and technologically advanced future.

Answer to Question 4:

Based on the document snippets provided, the manuscript appears to have appropriate subsections and structure. It covers a wide range of topics related to the application of Artificial

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	<p>Intelligence (AI) in fisheries and aquaculture, including sustainable aquaculture research, revolutionizing agrifood systems, hybrid intelligence, intelligent breeding management tools, water quality monitoring systems, fish species identification, and more. The document is organized into sections that address different aspects of AI in fisheries and aquaculture ensuring comprehensive coverage of the topic. Each subsection contains relevant information and references to support the discussion points, making the document well-structured and informative. The manuscript also includes figures and proposed methodologies to visually represent concepts and methods being discussed, further enhancing the overall structure of the document. Therefore, based on the information provided, it can be concluded that the subsections and structure of the manuscript are appropriate for the topic being discussed.</p> <p>Answer to Question 5: Based on the document snippets provided, it appears that the manuscript discussing the application of Artificial Intelligence (AI) in fisheries and aquaculture is scientifically sound. The document references a range of relevant studies and sources that support the utilization of AI in enhancing sustainability, productivity, and efficiency in the fisheries and aquaculture industry. Additionally, it discusses the potential benefits of AI in fisheries management, data collection, monitoring systems, and species identification. The incorporation of AI technology for real-time data collection, decision-making, and optimization in aquaculture practices is noted as a transformative approach for the industry. Furthermore, the document highlights the role of AI in addressing challenges such as overfishing, environmental damage, and the creation of new skilled jobs. Therefore, based on the information presented in the document snippets, it is reasonable to conclude that the manuscript discussing the application of AI in fisheries and aquaculture is scientifically correct. It provides a comprehensive overview of the benefits and potential of AI technology in enhancing sustainability, productivity, and environmental protection within the fisheries and aquaculture sector.</p> <p>Answer to Question 6: The references provided in the document are quite recent, with publications ranging from 2019 to 2023. The inclusion of references from the past few years indicates that the information presented is up-to-date and relevant to the current state of AI in fisheries and aquaculture. Additionally, the document includes references to studies and research articles that address a wide range of topics related to AI in aquaculture and fisheries management, such as monitoring systems, species identification, and sustainability. Furthermore, references to the use of AI in other sectors like banking and lean production provide a broader perspective on the applications of AI. While the existing references are relevant and recent, it may be beneficial to consider including additional references that delve into specific case studies or examples of AI implementation in fisheries and aquaculture. These types of references can offer more practical insights into how AI technologies are actually being utilized in the industry and provide more concrete examples of their benefits and challenges. However, more references should be added to the research paper to create relevancy of the paper with reference to latest updates in the field of AI.</p>	
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Minor REVISION comments 1. Is language/English quality of the articles suitable for scholarly communications?	The language and English quality of the article are appropriate for scholarly communications. The document contains academic references, technical terminology, and in-depth discussions on the application of Artificial Intelligence in fisheries and aquaculture. The references cited are from reputable sources, and the content is well-structured and organized. The use of scientific terms and research findings further enhances the scholarly nature of the article. Therefore, it is evident that the language and English quality of the article meet the standards required for scholarly communications.	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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