

Review Form 3

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_131157
Title of the Manuscript:	DEVELOPMENT OF IOT-BASED WATER QUALITY CONTROL SYSTEM AND FUZZY-BASED AUTOMATIC FISH FEEDING SYSTEM
Type of the Article	Research Article

PART 1: Comments

	Reviewer's comment Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</p> <p>Harap tulis beberapa kalimat mengenai pentingnya naskah ini bagi komunitas ilmiah. Minimal 3-4 kalimat mungkin diperlukan untuk bagian ini.</p>	<p>The evaluated paper is a research study where the authors address fish farming using new technologies, clearly highlighting the intention to control water quality. The paper presents an original example, with no overlaps with other manuscripts referring to the same experiment. The structure of the paper is well-organized and reflects a real-world activity.</p> <p>Makalah yang dievaluasi adalah studi penelitian di mana penulis membahas budidaya ikan menggunakan teknologi baru, dengan jelas menyoroti maksud untuk mengendalikan kualitas air. Makalah ini menyajikan contoh asli, tanpa tumpang tindih dengan manuskrip lain yang merujuk pada eksperimen yang sama. Struktur makalah ini terorganisasi dengan baik dan mencerminkan aktivitas dunia nyata.</p>	<p>This study discusses how IoT and fuzzy logic can be used to improve intelligent and modern fish farming, which discusses important issues in managing water quality and optimizing automatic and modern fish feeding, both of which are important results for maintaining fish health and fish farming results. The implications of this study are that it can be used in developing further research related to intelligent and modern fish farming systems.</p>
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>Apakah judul artikelnya sesuai? (Jika tidak, mohon sarankan judul alternatif)</p>	YES	<p>The research title was changed to "Development of Fuzzy Logic Automatic Fish Feeding System and IoT-based Water Quality Control".</p>

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<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p> <p>Apakah abstrak artikelnya komprehensif? Apakah Anda menyarankan penambahan (atau penghapusan) beberapa poin di bagian ini? Mohon tulis saran Anda di sini.</p>	YES	<p>Abstract revision: Rapidly developing technological advances make it easier for fish farmers to manage fish farming systems in an intelligent, structured, and modern way. This study discusses how IoT and fuzzy logic can be used to improve fish farming in an intelligent and modern way, which includes discussing important issues in managing water quality and optimizing fish feeding. The purpose of this study is to develop an IoT-based water quality control system and an automatic fish feeder based on a fuzzy logic controller. The method used in this study is the research and development (R n D) method. The input parameters in this study are temperature, pH, and water clarity, while the outputs in this study are: aerator working duration, heater working duration, cooler working duration, motor working duration, and the amount of fish feed. The results of the study showed an average error percentage of <5% so that the sensor can work accurately in determining water quality and determining the amount of feed; 2) the water quality control system can work well, where the heater, cooler, and aerator can work according to the quality of the pond; 3) the automatic fish feeding system has an average percentage of <5% so that it can work well and precisely in determining the duration of the motor and the amount of fish feed.</p> <p>.</p>
<p>Is the manuscript scientifically, correct? Please write here.</p>	YES	<p>This paper is a research paper whose data collection was guided by the fisheries extension worker of the food security and fisheries service of Nganjuk district. The results of the study are shown in table 2 and table 3.</p>
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	YES	<p>the references are adequate and up to date within the last 5 years</p>
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	YES	<p>Thank you, we are trying to fix it.</p>
<p><u>Optional/General</u> comments</p>	<p>The introduction adequately explains the context and importance of the research, the research methodology is clearly described and provides information about the instruments used. The respective results and the collected data are in small quantities, or the data presented are under 10 values for each monitored parameter.</p> <p>I did not observe a correlation between the practical experiment and the mathematical theorems applicable to this experiment. Images 4 and 5 are unclear.</p>	<p>1. The introduction adequately explains the context and significance of the study, the research methodology is clearly explained and provides information on the instruments used.</p> <p>2. Results are based on 5 tests on both the water quality control system and the automatic fish feeding system</p> <p>3. Figures 4 and 5 have been corrected</p>

PART 2:

	<p>Reviewer's comment</p>	<p>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)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><u>(If yes, Kindly please write down the ethical issues here in details)</u></p>	<p>No</p>