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| Book Name: | [An Overview of Literature, Language and Education Research](https://www.bookpi.org/bookstore/product/an-overview-of-literature-language-and-education-research-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4389** |
| Title of the Manuscript:  | **Case Studies: The Impact of Artificial Intelligence on STEM Education** |
| Type of the Article | **BOOK CHAPTER** |

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| PART 1: Comments |
|  | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **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.** | **This manuscript is of great significance to the scientific community, particularly in the fields of STEM education and artificial intelligence. The studies reviewed in this paper demonstrate that artificial intelligence can improve the effectiveness of teaching and learning, both through the use of learning management systems (LMS) and robotics in education. By looking at empirical research results in various countries, including South Africa, the United States and Greece, this paper provides a broad insight into the application of technology in education. In addition, the discussion of the potential of robotics in developing computational thinking skills as well as the challenges in the implementation of this technology provide a basis for further research and the development of technology-based educational policies.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **This title is quite clear in describing the content of the manuscript which discusses the impact of artificial intelligence on STEM education through a case study.** |  |
| 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. | **There are some parts that need to be improved****Abstract Improvement Suggestions:****Improve Structure and Clarity - The abstract should consist of background, objectives, methods, main findings, and conclusions. Currently, this section is too descriptive and does not highlight the main findings.****Eliminate Repetition - Some sentences convey the same information in different ways, for example about the use of robotics and LMS.****Emphasize Research Contribution - Explain how this study adds new insights to the field of AI-based education.** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **This paper is generally scientifically correct in discussing the impact of artificial intelligence (AI) on STEM education, particularly through the application of educational robotics and learning management systems (LMS). The review is based on empirical research, relevant references, and theoretical frameworks such as Kolb's Experiential Learning Cycle.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Most references are from years before 2020, which may not reflect the latest developments in AI and STEM education****Given the rapid development in AI and technology-based learning, references from 2020 and above will strengthen the scientific accuracy of this paper.****Most of the references are from studies in South Africa, the US and Europe. Adding studies from Asia or other developing countries would provide greater insight.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **In general, the quality of English in this article is good enough for scientific communication** |  |
| Optional/General comments | **Overall, this article addresses the highly relevant and important topic of the application of artificial intelligence (AI) in STEM education. The manuscript has strong academic potential, especially in exploring how AI, robotics, and learning management systems (LMS) can improve the effectiveness of teaching and learning, but it needs more recent references due to the development of technology itself and human development as well.** |  |

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| **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?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: | **Zainuddin** |
| Department, University & Country | **Institut Agama Islam Al-Qur’an Al-Ittifaqiah Indralaya, Indonesia** |