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| Book Name: | **Advancements in Science and Technology: Paving the Way to a Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_** **4465.6** |
| Title of the Manuscript: | **Artificial Intelligence: Catalyst for a sustainable future** |
| Type of the Article | **BOOK CHAPTER** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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 chapter covers a very timely and important topic—how AI can drive sustainability across different sectors. AI has already shown huge potential in tackling environmental challenges, improving efficiency in agriculture, energy, and urban planning, and even supporting healthcare and waste management. This chapter does a great job of bringing all these elements together in a way that is relevant for researchers, policymakers, and industry leaders. Given the growing focus on sustainability and AI’s role in it, this chapter will be a valuable resource for many readers. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The current title is strong and relevant. However, if you want to make it slightly more engaging, you might consider something like: **"AI as a Catalyst for Sustainability: Innovations in Agriculture, Energy, and Urban Systems"** This keeps the essence of the original title but makes it a little more specific about what the chapter focuses on. |  |
| 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. | The abstract gives a good overview of the chapter’s key themes, but it could be refined slightly to make it more engaging:   * It would be helpful to **highlight a key takeaway**—for example, what makes this chapter different from other discussions on AI and sustainability? * A short mention of **future challenges** or **open questions** could make it more compelling for readers. |  |
| **Is the manuscript scientifically, correct? Please write here.** | - |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references are comprehensive and well-selected. However, including **a few more recent studies from 2022–2024**, particularly on AI in **waste management** and **renewable energy**, would further strengthen the discussion. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The writing is generally clear and professional, but:   * Some sentences are **quite long and complex**, which might make it harder for some readers to follow. Breaking them into shorter sentences could improve readability. * A few **technical terms** could be briefly explained for readers who may not have a strong AI background. * There are **minor grammar and phrasing issues** that could be polished to make the text smoother. |  |
| Optional/General comments |  A **short section on ethical AI governance** could add value, discussing how we can ensure AI is used responsibly for sustainability.   A **real-world example**—like how AI has helped reduce carbon emissions in a specific city—would make the discussion more engaging.   Adding a **visual summary** (such as a flowchart or table) could help break up the text and make it easier for readers to digest key points. |  |

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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: | **Rapeerat Thanyawatpornkul** |
| Department, University & Country | **Silpakorn University, Thailand** |