|  |
| --- |
|  |
| Book Name: | [**Science and Technology: Developments and Applications**](https://www.bookpi.org/bookstore/product/science-and-technology-developments-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4494** |
| Title of the Manuscript:  | **Big Data As A Systemic Procedure In The Field of Forensic And Legal Medicine** |
| Type of the Article | **Book Chapter** |

|  |
| --- |
| 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 article provides a valuable contribution to the scientific community by examining the integration of Big Data as a systemic procedure in forensic and legal medicine. As data-driven approaches become increasingly important in forensic investigations, this study highlights the need for structured methodologies to improve data management, analysis, and decision-making. By addressing the challenges and opportunities of Big Data, the manuscript stimulates interdisciplinary discussions among forensic scientists, data analysts, and legal professionals. Furthermore, the incorporation of Artificial Intelligence into forensic medicine practices highlights the importance of the article in advancing technological innovations in the field. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **"**Integrating Big Data as a Systems Approach in Forensic and Legal Medicine"This revised title better reflects the research's focus on the structured application of Big Data in the forensic context, while maintaining academic rigor. |  |
| 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 provides an overview of the paper’s focus on Big Data in forensic and legal medicine. However, it could be improved by adding a clearer structure and highlighting key findings. Here are my suggestions for improvement:Recommended Additions:1. Clarify the Problem Statement: The abstract briefly mentions the complexity of data in forensic medicine but does not clearly identify the research gap. A clearer statement about current challenges in forensic data management would strengthen its impact.2. Highlight Key Findings: While the abstract discusses the importance of Big Data, it does not clearly state the key results or contributions of the study. Adding a sentence about how the systemic procedure improves forensic analysis would make the abstract more comprehensive.3. Highlight Practical Applications: Briefly mentioning real-world forensic cases or AI integration in forensic analysis would help illustrate the significance of the study. Recommended Deletions:1. The statement “The complexity of data processed in this area is obvious and therefore requires special treatment” is a bit vague. Instead, it would be more effective to state the types of challenges encountered in forensic data analysis.4. The sequence of "V's" (3, 5, 7, 9, ...) in the abstract seems redundant and may be confusing to readers unfamiliar with the concept. A simpler statement summarizing the importance of the 7 V's would be more effective.5. When going from page 1 to page 2, “to” is written in capital letters. Here, the idea is being tasted, it does not need to be capitalized. On page 3, “V4. Veracity: it refers” in this section, “it” is written in a different font.General Recommendation:The abstract should be slightly restructured to include a clearer problem statement, objectives, key findings, and practical implications. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The manuscript is scientifically sound in its discussion of Big Data and its potential applications in forensics and legal medicine. It presents a well-structured analysis of a systematic approach and highlights the importance of data management in forensics. However, some areas require clarification and further development:1. Terminology and Definitions:While the manuscript defines Big Data and its characteristics, some definitions could be more precise and supported by additional references. 2. AI and Forensic Applications:The discussion of Artificial Intelligence in forensics is relevant, but a more detailed explanation of specific AI models and their validation would increase scientific credibility.Overall, the manuscript presents a valid and relevant scientific discussion, but minor improvements in terminology, methodology, and practical applications would strengthen its scientific rigor. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The manuscript includes a substantial number of references, covering various aspects of Big Data, forensic science, and Artificial Intelligence. However, there are areas where the references could be improved:1. Recency of References: While some references are recent (2023–2024), many sources date back several years (e.g., pre-2018).
2. Diversity of Sources: The references focus on general Big Data concepts but lack specific forensic case studies where Big Data and AI have been applied successfully. Including studies on forensic data analytics, machine learning in forensic science, and digital forensics would strengthen the literature review.

Overall, while the reference list is extensive, adding more recent and specialized sources would improve the manuscript’s scientific depth. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The linguistic quality of the article is generally adequate for scientific communication, but there are areas where clarity, conciseness, and consistency could be improved. Some sections could benefit from more direct language and smoother transitions. Additionally, an explanation of certain terms such as "Big Data" and "Truth" could be helpful to clarify for the audience for a general and general overview. flow, the article would be very suitable for scientific contexts |  |
| Optional/General comments | The article contains valuable insights into the integration of AI and big data in forensics. With edits for clarity and flow it will become even more effective for a scientific audience. |  |

|  |
| --- |
| **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)* |  |

|  |
| --- |
| **Reviewer Details:** |
| Name: | **Ulviyya Mustafayeva** |
| Department, University & Country | **Istanbul University-Cerrahpasa, Institute of Forensic Sciences and Legal Medicine Istanbul, Türkiye** |