

Review Form2

Book Name:	Mathematics and Computer Science: Contemporary Developments
Manuscript Number:	Ms_BPR_2243
Title of the Manuscript:	On the existence of moments in Cauchy-like distributions induced from the tan function
Type of the Article	Book chapter

PART 1: Review Comments

Compulsory REVISION 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. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.	This manuscript addresses the existence of moments in Cauchy-like distributions induced from the tan function, which is a topic of significant interest in the field of probability theory. The study offers valuable insights into the behavior of moments for functions of random variables, particularly when the underlying distribution is not standard. The exploration of conditions under which these moments exist contributes to a deeper understanding of distributions that are crucial in various real-world applications. As a reviewer, I appreciate the manuscript's focus on a challenging problem in probability theory and its potential impact on the scientific community. The thorough analysis and examples provided enhance the manuscript's value, although some sections could benefit from further elaboration on the practical implications of these theoretical findings.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
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.	Yes	
Are subsections and structure of the manuscript appropriate?	The subsections and structure of the manuscript appear to be appropriate for the subject matter. The manuscript begins with an abstract that summarizes the key focus of the study. Following the abstract, the manuscript provides a preliminary discussion that sets the context by explaining the relevance of the Cauchy distribution and the tan function. The manuscript is organized logically, moving from the general analysis to specific examples that illustrate the key points. This structure helps in understanding the complex mathematical concepts discussed.However, the manuscript might benefit from a more explicit sectioning with clear headings for each major part, such as "Introduction," "Methodology," "Results," "Discussion," and "Conclusion." These headings would improve the readability and make it easier for readers to follow the argument and findings. Overall, while the current structure is functional, slight modifications could enhance clarity and accessibility.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimumof 3-4 sentences may be required for this part.	The manuscript appears to be scientifically robust and technically sound, primarily due to its rigorous mathematical analysis and careful consideration of the conditions under which moments of Cauchy-like distributions exist. The authors have applied well-established mathematical techniques, including the use of diffeomorphisms and cumulative distribution functions, to explore a complex problem in probability theory. The inclusion of both discrete and continuous cases, along with detailed examples, further strengthens the scientific validity	

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	of the work. The propositions and examples are logically derived and supported by mathematical proofs, ensuring that the conclusions drawn are reliable and accurate. This meticulous approach indicates that the manuscript is grounded in sound mathematical principles.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	Yes. The manuscript is scientifically robust, offering a thorough and technically sound exploration of the existence of moments in Cauchy-like distributions. The structure is logical, with appropriate subsections that facilitate understanding of complex concepts. While the references are foundational and relevant, incorporating more recent studies would enhance the manuscript's relevance and connection to current research. Overall, this work makes a valuable contribution to probability theory.	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the article are generally suitable for scholarly communications. The manuscript is written in a clear and concise manner, effectively conveying complex mathematical concepts. The terminology used is appropriate for the field, and the overall tone is academic, which is suitable for a scholarly audience. However, there may be minor areas where sentence structure or phrasing could be refined to improve readability and clarity. Ensuring that all sections are free from grammatical errors and maintaining consistency in terminology throughout the manuscript would further enhance its quality.	
Optional/General comments	The manuscript presents a rigorous and insightful exploration of a complex topic in probability theory, contributing valuable knowledge to the field. The examples provided effectively illustrate the theoretical findings, and the mathematical proofs are well-constructed. While the manuscript is technically sound, there are opportunities to improve its clarity by refining the structure with clearer section headings and ensuring that the language is as precise and readable as possible. Additionally, incorporating more recent references would enhance the manuscript's relevance in the context of current research. Overall, this work is a strong contribution to the literature, and with minor adjustments, it could be further improved.	

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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