

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 delves into the existence of moments in Cauchy-like distributions derived from the tangent function, expanding the understanding of moments in non-standard distributions. ➤ It is important for the scientific community because it explores conditions under which moments of such functions might exist, offering valuable insights into statistical modeling where real-life variables are bounded. ➤ I appreciate this manuscript for its rigorous exploration of a complex topic, which is crucial for advancing statistical theory, though its technical depth may limit accessibility for a broader audience.	
Is the title of the article suitable? (If not please suggest an alternative title)	➤ The is descriptive but could be refined for clarity and impact. While it conveys the core focus of the manuscript, it could be more succinct and engaging. ➤ A more concise and focused alternative could beExistence of Moments in Cauchy-like Distributions via the Tangent Function. This title captures the essence of the study while being more direct.	

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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 of the article provides a brief overview of the topic, focusing on the exploration of the existence of moments in functions derived from the tangent function, which generalizes the Cauchy distribution. However, it could be improved to make it more comprehensive and informative. Here are some suggestions: ➤ The abstract could better emphasize why the study is important. For example, it could briefly explain the significance of moments in statistical analysis and why extending this analysis to Cauchy-like distributions is valuable. ➤ The abstract should mention the main results or conclusions of the paper. For instance, it could briefly state under what conditions the moments exist and provide an example of a practical application.	
Are subsections and structure of the manuscript appropriate?	Yes	
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 minimum of 3-4 sentences may be required for this part.	➤ The manuscript appears to be scientifically robust and technically sound, given its rigorous mathematical approach to investigating the existence of moments in Cauchy-like distributions derived from the tangent function. ➤ The authors employ precise mathematical tools, including diffeomorphisms and cumulative distribution functions, to explore complex statistical properties, which indicates a strong theoretical foundation. ➤ Furthermore, the manuscript provides clear propositions and examples that illustrate both the general theory and specific cases, ensuring that the findings are well-supported by logical reasoning. ➤ This level of detail and methodological rigor suggests that the conclusions drawn are reliable and contribute meaningfully to the field of probability theory.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	No more references need to be added	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Yes	
Optional/General comments		

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PART 2:

	Reviewer’s comment	Author’s comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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