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| Book Name: | [**New Horizons of Science, Technology and Culture**](https://bookstore.bookpi.org/product/new-horizons-of-science-technology-and-culture-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5706** |
| Title of the Manuscript:  | **PREDICTION AND SIMULATION OF HOT SPOT TEMPERATURE WITH AN EFFECT OF ENVIRONMENTAL DRIVING VARIABLES** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Journal of Global Research in Computer Science, 3(6): 59-63, 2010.**

**Available:** [**https://www.rroij.com/peer-reviewed/prediction-and-simulation-of-hot-spot-temperature-with-an-effect-of-environmental-driving-variables-37808.html**](https://www.rroij.com/peer-reviewed/prediction-and-simulation-of-hot-spot-temperature-with-an-effect-of-environmental-driving-variables-37808.html)

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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.** | * **HST is one of the most critical parameters in transformer insulation aging and failure**
* **Present study incorporates real-time environmental driving variables**
* **Present research provides foundational tools to be used in real-time diagnostics and health assessment of transformers**
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| **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. | **Some sentences are overly long and contain grammatical errors, which obscure the technical content. For example, the phrase *“a new semi-physical model comprising of the environmental variables for the estimation of HST in transformer is proposed”* should be revised as “a new semi-physical model incorporating environmental variables is proposed for estimating the HST in transformers.”****The abstract could benefit from a clearer explanation of the proposed model — what differentiates it from existing models?****The last sentence should be revised and focus on the accuracy and significance of the comparison**  |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Most of the references are old. Some recent literature should be provided and validated with the current results.** **More referece need to be added in introduction and discussion part** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Need to check with native English speaker |  |
| Optional/General comments | Discussion should be more detailed Needs to be corroborated with previous research workData used and methods should be separate sectionResults & Discussion* Author should describe more detail in Fig.4 and Fig.5
* Should be more elaborate
* Validation results are missing
* Corroborate with previous studies

In conclusion, * phrasing and grammatical errors (e.g., "to expected" should be "it is expected", "data’s" should be "data"
* Specify which models were compared and how the proposed model performs relative to them.
* Ensure consistent use of technical terms (e.g., “Hot-Spot Temperature”, “percentage loss of life”)
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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)* |  |

**Reviewer details:**

**Gouri Sankar Bhunia, India**