

[Review Form3](#)

Book Name:	<a href="#">Mathematics and Computer Science: Research Updates</a>
Manuscript Number:	<b>Ms_BPR_4180</b>
Title of the Manuscript:	<b>Mathematical modelling in Management of Railways timetable Based on Circulation Scheme and Rescheduling Approach</b>
Type of the Article	<b>Book chapter</b>

**PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>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.</b>	The paper (addressing significant and practical issue in railway management) highlights its operational and economic importance; however, the application of mathematical modeling for optimizing timetables, along with presentation of numerical results, showcases thorough research (and practical use of theoretical ideas). The organization of the paper—beginning with problem identification, followed by literature review, mathematical modeling and concluding with results and conclusions— (is coherent) and straightforward to navigate. Although the structure appears clear, some complexities may arise because of the dense theoretical frameworks presented; this can challenge the reader's comprehension. But ultimately, the findings contribute meaningfully to the field.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Yes</b>	
<b>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.</b>	<b>Rewrite</b>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	<b>Correct</b>	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> =	<b>Yes</b>	

**Review Form3**

<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>English corrections need to be done</p>	
<p><b>Optional/General</b> comments</p>	<p><b>Suggestions:</b></p> <ul style="list-style-type: none"> <li>• The value of cyclic scheduling in railway operations across the globe</li> <li>• How the suggested model outperforms current models in handling circulation schemes and delays</li> <li>• Restrictions placed on prior research: Neglecting to factor in limitations on rolling stock or delays caused by a domino effect</li> </ul> <ul style="list-style-type: none"> <li>• Incorporate direction-specific constraints and real-time adaptability to better position the work within the literature.</li> <li>• Further explanation of the selected restrictions, such as the minimum headway time to prevent conflicts.</li> <li>• The computational complexity of solving the ILP model, particularly for networks that are larger in size.</li> <li>• The real-world importance of stakeholders' perceptions of decision variables such as ZZZ. To demonstrate the effect of parameter variations on the results, a sensitivity analysis is performed.</li> <li>• Diagrams or charts can be used to see the results.</li> <li>• Operating savings, improved network capacity, and effects on passenger experience are some of the implications of the results. Problems like unforeseen interruptions or limited rolling stock are examples of real-world constraints that the model does not account for.</li> <li>• Bring attention to more systemic effects, like enhancing service reliability and decreasing expenses.</li> <li>• Make recommendations for further study that could help achieve sustainability objectives, expand the model to incorporate freight operations or multimodal transportation systems, or use real-time data for dynamic rescheduling.</li> </ul>	

**PART 2:**

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

**Reviewer Details:**

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<p><b>Department, University &amp; Country</b></p>	<p><b>SRMIST, India</b></p>