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[ABS-50] Abstract Submitted to SICBAS 2018

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Dear Ms. Sisca Octarina,

We have received the submission of your abstract:

Abstract ID:
ABS-50
Please use this "Abstract ID" in all correspondence (instead of abstract title).

Title:
Gilmore and Gomory Model on Two Dimensional Multiple Stock Size Cutting Stock Problem

Authors:
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Content:
Two-dimensional Multiple Stock Size Cutting Stock Problem (MSSCSP) is an optimization problem in determining the optimal cutting pattern of materials with length and width variables. The optimal cutting pattern is needed to minimize the amount of materials used. This research implemented the pattern generation algorithm to generate Gilmore and Gomory models on every variation of material size. The first stage generated the pattern based on the length and the width was on the next stage. Then, Gilmore and Gomory models were generated according to the size of the material, where the Gilmore and Gomory model constraints ensured that strips cut in the first stage cutting were used in the second stage cutting and met all product requirements. The Branch and Bound method was used to determine the minimum size of the material sheets needed.

Keywords:
Multiple Stock Size, Cutting Stock Problem, Pattern Generation, Gilmore and Gomory

Topic:
Mathematics and Applied Mathematics

Presenter:
Sisca Octarina

Type:
Oral Presentation

The Letter of Acceptance (LoA) and Letter of Invitation (LoI) can be downloaded directly from your account,
once your abstract is accepted to be presented.

Thank you.

Best Regards,
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